
2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

MISSISSIPPI POWER COMPANY
PLANT WATSON FORMER CCR UNIT



Report Submitted – August 1, 2023

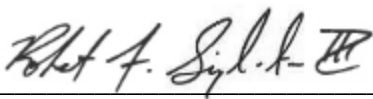
Prepared By:

Southern Company Services
Earth Science and Environmental Engineering



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.



Robert F. Singleton III, PG
Originator
MS Registered PG No. 1015



Eric Wallis, PG
Supervising Principal Hydrogeologist
MS Registered PG No. 0926

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 2023 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 2023 monitoring period:

- Completed construction of the temporary groundwater remedy and enhanced source control system in October 2022. Optimization of system is ongoing.
- Conducted the first and second semi-annual sampling event during October 2022 and March 2023 in all background, downgradient and surface water monitoring locations.
- Completed the vertical delineation evaluation analyzing the occurrence of Appendix IV constituents in site vertical delineation wells. Results suggest that certain constituents exceeding the Groundwater Protection Standards in site vertical delineation wells are naturally occurring. Results from the evaluation were reported in an addendum to the Comprehensive Groundwater Investigation Report in December 2022.
- Submitted the Semi-Annual Remedy Selection and Design Progress Reports on September 30, 2022, and March 31, 2023.
- Submitted Semi-Annual Progress Reports on September 30, 2022, and March 31, 2023, 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.
- Continue optimization of the temporary groundwater remedy and enhanced source control system.
- Develop a groundwater monitoring plan to assess performance of the temporary groundwater remedy.
- Submit the next Semi-Annual Remedy Selection and Design Progress Report by September 30, 2023.
- Submit the next Semi-Annual Progress Report by September 30, 2023.
- Submit the next Annual Groundwater and Corrective Action Report by August 1, 2024.

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

Assessment Monitoring Initiated: August 2019
Monitoring Period: July 2022 - June 2023
Beginning Status: Assessment
Ending Status: Assessment

Statistical Analysis Results (Note 1)

Appendix III SSIs

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

TABLE OF CONTENTS

Executive Summary	i
1.0 Introduction	1
1.1 Site Description & Background.....	1
2.0 Regional Geology & Hydrogeologic Setting	2
2.1 Site Location and Physical Setting.....	2
2.2 Geology and Hydrogeology	2
3.0 Groundwater Monitoring Activities.....	4
3.1 Groundwater Monitoring Network.....	4
3.2 Assessment Monitoring.....	4
4.0 Groundwater Sampling Methodology and Analysis	6
4.1 Groundwater Elevation Measurement.....	6
4.2 Groundwater Sampling.....	6
4.3 Laboratory Analysis	7
4.4 Quality Assurance/Quality Control.....	7
5.0 Statistical Analysis	9
5.1 Statistical Methods	9
5.1.1 Appendix III Statistical Method.....	9
5.1.2 Appendix IV Statistical Method.....	9
5.2 Statistical Analysis Results	10
5.2.1 First Semi-Annual Assessment Monitoring Event.....	11
5.2.2 Second Semi-Annual Assessment Monitoring Event	11
5.2.3 Delineation Wells.....	12
6.0 Alternate Source Demonstrations	14
7.0 Monitoring Program Status	15
8.0 Conclusions and Future Actions	16
9.0 References	17

FIGURES

Figure 1	Site Location Map
Figure 2	Monitoring Well Network
Figure 3	Unit 3 Potentiometric Surface Contour Map – October 17, 2022
Figure 4	Unit 3 Potentiometric Surface Contour Map – March 7, 2023

TABLES

Table 1	Groundwater Monitoring Network Details
Table 2	Groundwater Sampling Event Summary
Table 3	Summary of Groundwater Elevations
Table 4	Summary of Background Levels and Groundwater Protection Standards

APPENDICES

Appendix A	Groundwater Analytical Data
Appendix B	Statistical Data Evaluation

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 2022 through June 2023 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 2022 and March 2023. Analytical data from the semi-annual groundwater monitoring events conducted in October 2022 and March 2023 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 2022 and March 2023. Four background monitoring wells (APMW-13 through APMW-16) are located on islands north of the CCR Unit and are typically sampled at one time during 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 17, 2022** and **Figure 4, Unit 3 Potentiometric Surface Contour Map – March 7, 2023**. 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 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 2022 and March 2023 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 second 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-9
- Lithium: APMW-3, APMW-4, 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
- 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
- Lithium: APMW-4D
- Molybdenum: APMW-4D

During the 2021-2022 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. Results from the evaluation indicate 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. Results from the vertical delineation evaluation were included in an addendum to the Comprehensive Groundwater Investigation Report in December 2022 (Geosyntec, 2022).

Analytical results from horizontal surface water sampling locations in October 2022 identified 10 surface water samples exceeding the GWPS for lithium; however, these results are erroneous and do not represent actual surface water conditions. At each location the October lithium results were – inexplicably - approximately one order of magnitude higher than historical results at these sample locations. Elevated lithium concentrations were observed in samples collected upriver

(upgradient) from the Site as well as downgradient. There were no other Appendix IV constituents observed exceeding the GWPS during the October 2022 event and a corresponding increase was not observed in other monitored parameters. Although review of laboratory quality control did not identify a sampling, analytical, or reporting error, the inexplicable sitewide increase and absence of other parameter increases lead to the conclusion that these results are erroneous and do not represent actual surface water quality. Analytical results from horizontal sampling locations during the March 2023 event did not identify concentrations above the GWPS of Appendix IV constituents. Reported lithium concentrations were consistent with historical levels and were approximately an order of magnitude below the GWPS of 0.04 mg/L. 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.

During the 2021-2022 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. Results from the evaluation indicate 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. Results from the vertical delineation evaluation were included in an addendum to the Comprehensive Groundwater Investigation Report in December 2022 (Geosyntec, 2022).

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 was installed and began operating at the Site 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. The system is currently being optimized.

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, and results indicate that vertical delineation is considered complete at the Site. 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 monitoring period at the Site:

- Semi-annual groundwater assessment monitoring, including sampling of horizontal and vertical delineation locations.
- Continue optimization of the temporary groundwater remedy and enhanced source control system.
- Develop a groundwater monitoring plan to assess performance of the temporary groundwater remedy.
- Submit the next Semi-Annual Remedy Selection and Design Progress Report by September 30, 2023.
- Submit the next Semi-Annual Progress Report by September 30, 2023.

Submit the next Annual Groundwater and Corrective Action Report by August 1, 2024.

9.0 REFERENCES

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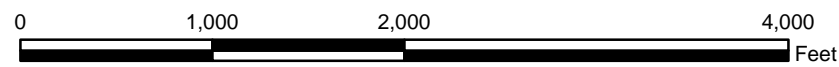
Figures



Service Layer Credits: USDA, NRCS, MARIS

Legend

- Plant Watson Property Boundary
- CCR Unit Boundary

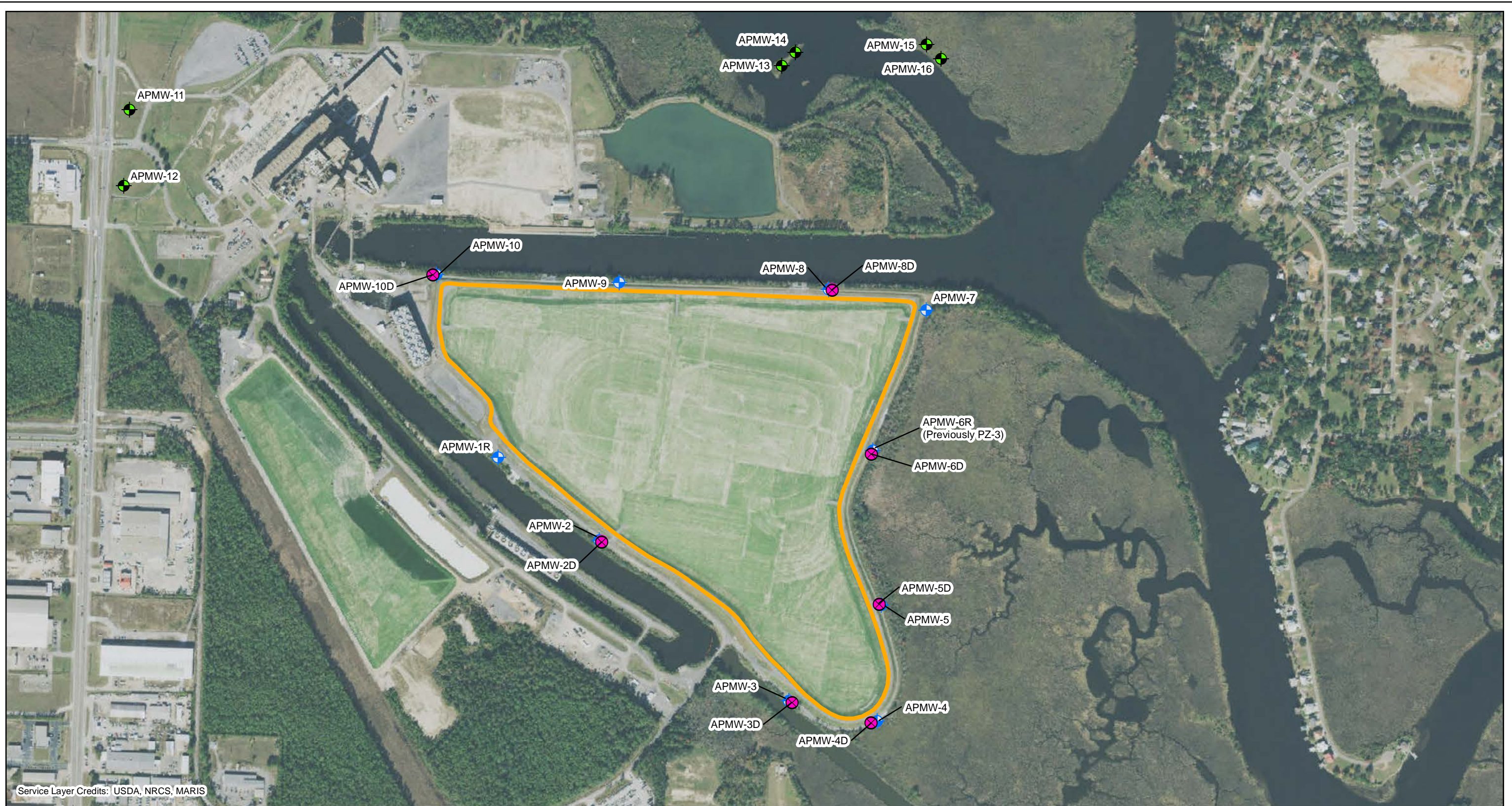


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DATE	7/31/2020
DRAWN BY	KAR
CHECKED BY	LPC

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





FIGURE NO
FIGURE 1

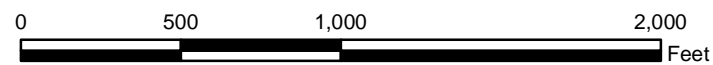




Service Layer Credits: USDA, NRCS, MARIS

Legend

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

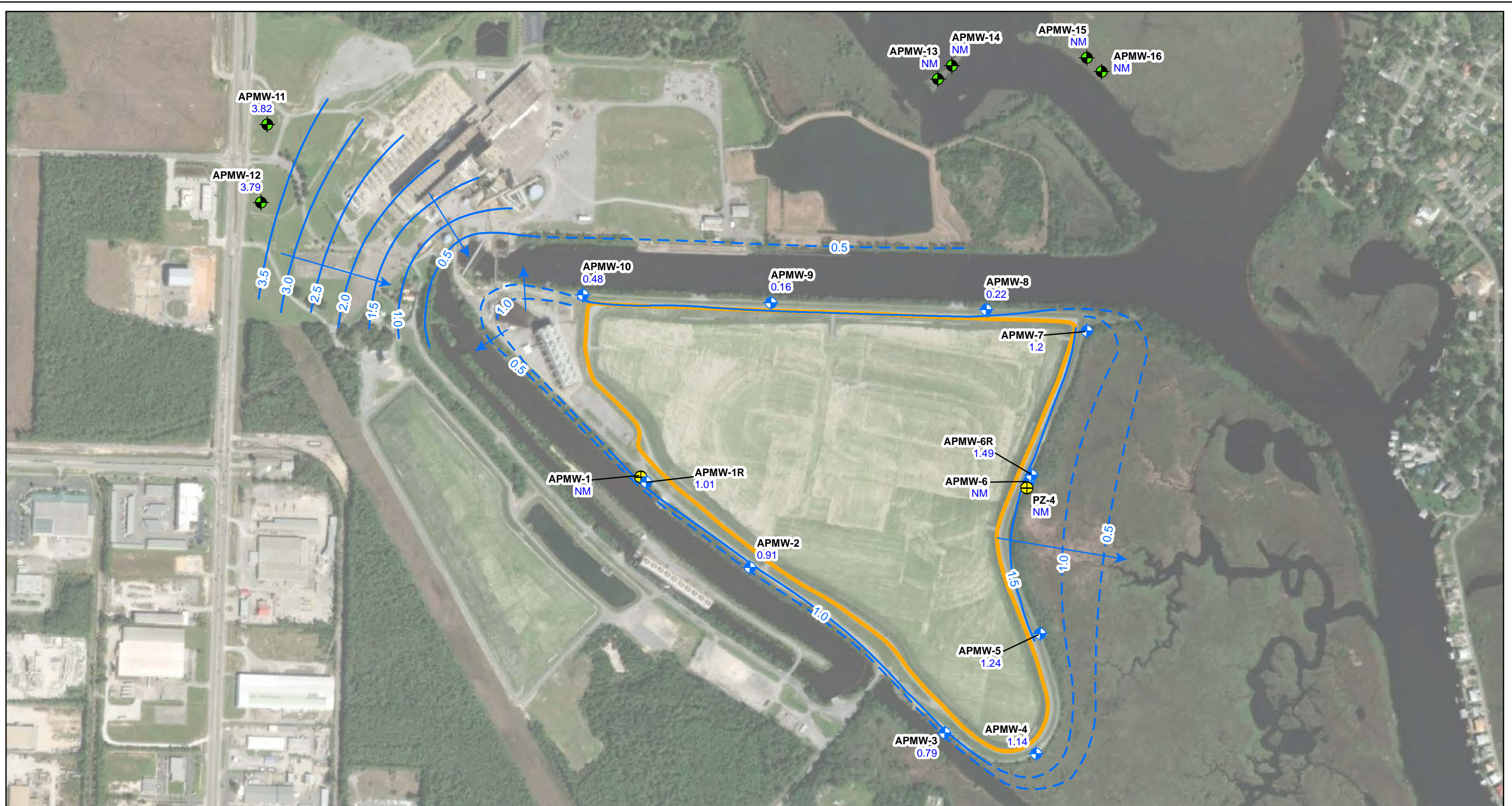


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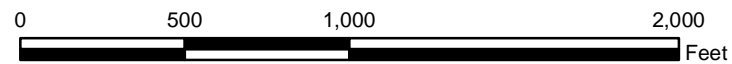
DRAWING TITLE
**MONITORING WELL NETWORK
 PLANT WATSON
 FORMER CCR UNIT**

FIGURE NO
FIGURE 2





Legend	
	Downgradient Monitoring Well
	Upgradient Monitoring Well
	Piezometer
	Estimated Groundwater Elevation Contour (ft NAVD88)
	Inferred Groundwater Elevation Contour (ft NAVD88)
	Inferred Groundwater Flow Direction
	CCR Unit Boundary
APMW-1R	Well Name
1.01	Groundwater Elevation (ft NAVD88)



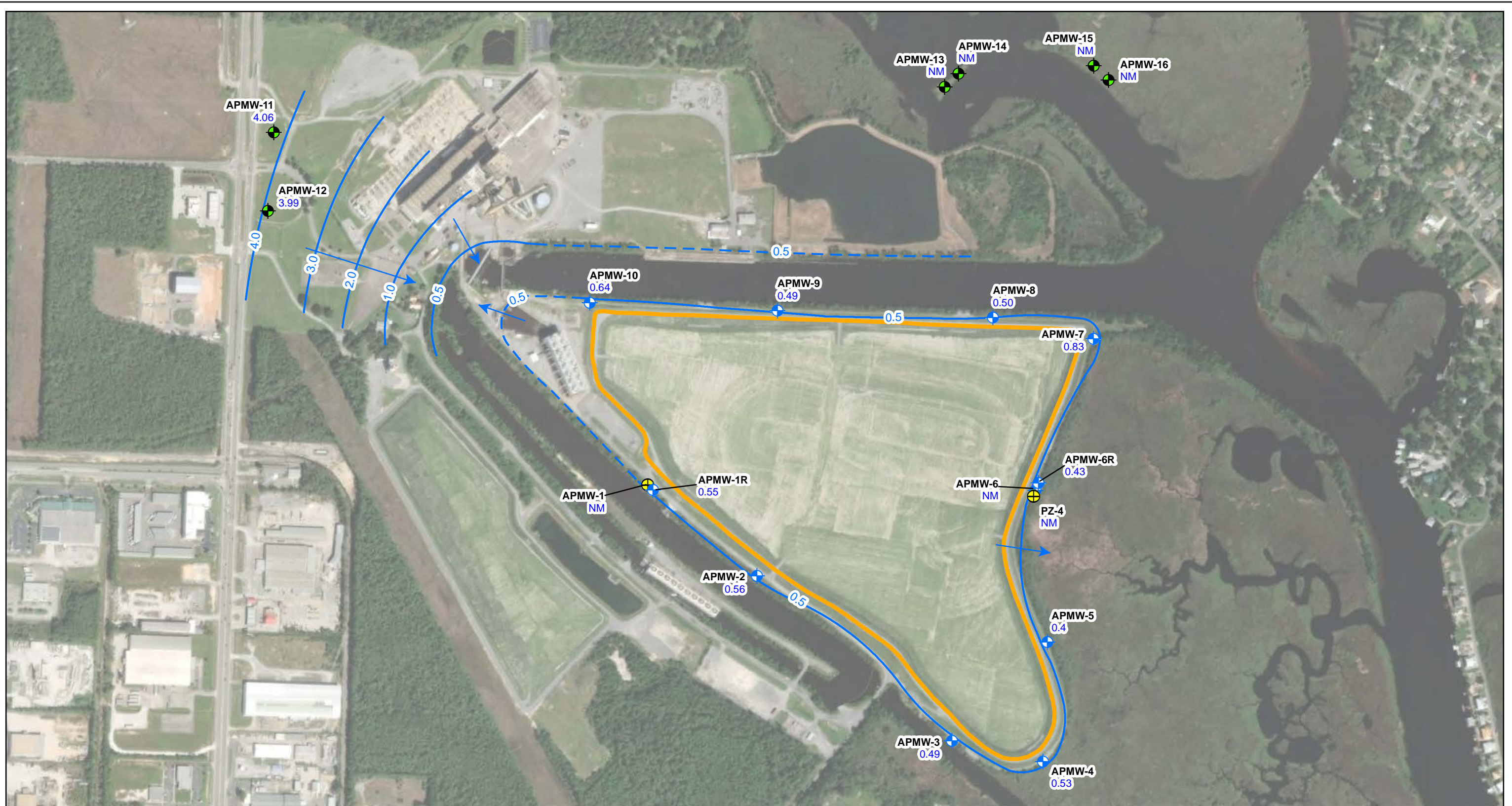
NOTES:
 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
 2. NM indicates not measured.

SCALE	1:7000
DATE	6/28/2023
DRAWN BY	KAR
CHECKED BY	RFS

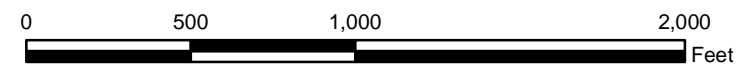
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 UNIT 3 POTENTIOMETRIC SURFACE
 CONTOUR MAP
 OCTOBER 17, 2022
 PLANT WATSON FORMER CCR UNIT

FIGURE NO
FIGURE 3





Legend	
	Downgradient Monitoring Well
	Upgradient Monitoring Well
	Piezometer
	CCR Unit Boundary
	Estimated Groundwater Elevation Contour (ft NAVD88)
	Inferred Groundwater Elevation Contour (ft NAVD88)
	Inferred Groundwater Flow Direction
APMW-1R 0.55	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	6/28/2023
DRAWN BY	KAR
CHECKED BY	RFS

DRAWING TITLE
 UNIT 3 POTENTIOMETRIC SURFACE
 CONTOUR MAP
 MARCH 7, 2023
 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.
3. APMW-6 was damaged and is no longer part of the monitoring network.

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-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 2022 Assessment Monitoring	SA02 2023 Assessment Monitoring
APMW-1R	Downgradient	10/17/2022	3/8/2023
APMW-2	Downgradient	10/17/2022	3/8/2023
APMW-3	Downgradient	10/18/2022	3/8/2023
APMW-4	Downgradient	10/19/2022	3/8/2023
APMW-5	Downgradient	10/19/2022	3/9/2023
APMW-6R	Downgradient	10/19/2022	3/9/2023
APMW-7	Downgradient	10/18/2022	3/9/2023
APMW-8	Downgradient	10/18/2022	3/9/2023
APMW-9	Downgradient	10/18/2022	3/13/2023
APMW-10	Downgradient	10/18/2022	3/13/2023
APMW-11	Upgradient	10/17/2022	3/7/2023
APMW-12	Upgradient	10/17/2022	3/10/2023
APMW-13	Upgradient	10/19/2022	3/10/2023
APMW-14	Upgradient	10/19/2022	3/10/2023
APMW-15	Upgradient	10/19/2022	3/10/2023
APMW-16	Upgradient	10/19/2022	3/10/2023
APMW-2D	Vertical Delineation	10/18/2022	3/8/2023
APMW-3D	Vertical Delineation	10/18/2022	3/8/2023
APMW-4D	Vertical Delineation	10/18/2022	3/8/2023
APMW-5D	Vertical Delineation	10/19/2022	3/9/2023
APMW-6D	Vertical Delineation	10/19/2022	3/9/2023
APMW-8D	Vertical Delineation	10/18/2022	3/9/2023
APMW-10D	Vertical Delineation	10/18/2022	3/13/2023

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 10/17/2022 (ft BTOC)	GW Elevation 10/17/2022 (ft MSL)	Depth to GW 3/7/2023 (ft BTOC)	GW Elevation 3/7/2023 (ft MSL)
APMW-1	24.86	23.85	1.01	24.31	0.55
APMW-1R	25.16	24.15	1.01	24.61	0.55
APMW-2	22.58	21.67	0.91	22.02	0.56
APMW-3	8.40	7.61	0.79	7.91	0.49
APMW-4	13.39	12.25	1.14	12.86	0.53
APMW-5	8.68	7.44	1.24	8.28	0.40
APMW-6	8.91	7.38	1.53	8.42	0.49
APMW-6R	8.11	6.62	1.49	7.68	0.43
APMW-7	13.00	11.80	1.20	12.17	0.83
APMW-8	21.00	20.78	0.22	20.50	0.50
APMW-9	22.41	22.25	0.16	21.92	0.49
APMW-10	21.11	20.63	0.48	20.47	0.64
APMW-11	22.45	18.63	3.82	18.39	4.06
APMW-12	20.06	16.27	3.79	16.07	3.99
PZ-4	7.93	6.44	1.49	7.35	0.58
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	14.79	8.99	14.82	8.96
APMW-3D	9.77	6.92	2.85	7.65	2.12
APMW-4D	12.70	10.71	1.99	11.34	1.36
APMW-5D	10.30	7.53	2.77	8.40	1.90
APMW-6D	10.05	7.21	2.84	8.22	1.83
APMW-8D	22.23	19.89	2.34	20.25	1.98
APMW-10D	21.68	14.44	7.24	14.28	7.40

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	5.62	5	5.62
Fluoride	mg/L	0.54	4	4
Lead	mg/L	0.001	0.015	0.015
Lithium	mg/L	0.024	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: 10/17/2022 10:17:45 AM

Project: Watson CCR

Operator Name: Brett Surles

Location Name: Watson CCR APMW-11 Well Diameter: 2 in Casing Type: PE Screen Length: 10 ft Top of Screen: 41.6 ft Total Depth: 51.6 ft Initial Depth to Water: 18.63 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 46.6 ft 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:

Sample @1040, Dup-01 @0940

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	+/- 10	+/- 0.2	
10/17/2022 10:17 AM	00:00	6.09 pH	24.22 °C	100.00 µS/cm	0.74 mg/L	5.64 NTU	-44.2 mV	18.65 ft	400.00 ml/min
10/17/2022 10:22 AM	05:00	6.15 pH	23.09 °C	101.37 µS/cm	0.35 mg/L	1.18 NTU	-38.8 mV	18.65 ft	400.00 ml/min
10/17/2022 10:27 AM	10:00	6.15 pH	23.05 °C	101.63 µS/cm	0.27 mg/L	0.97 NTU	-79.5 mV	18.65 ft	400.00 ml/min
10/17/2022 10:32 AM	15:00	6.19 pH	23.05 °C	101.88 µS/cm	0.24 mg/L	0.54 NTU	-80.7 mV	18.65 ft	400.00 ml/min
10/17/2022 10:37 AM	20:00	6.19 pH	23.06 °C	102.35 µS/cm	0.21 mg/L		-80.9 mV	18.65 ft	400.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 10/17/2022 11:29:28 AM

Project: Watson CCR APMW-12

Operator Name: Brett Surles

Location Name: Watson CCR APMW-12 Well Diameter: 2 in Casing Type: PE Screen Length: 10 ft Top of Screen: 44.1 ft Total Depth: 54.1 ft Initial Depth to Water: 16.27 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 39.1 ft Estimated Total Volume Pumped: 8 gal 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:

Sample@1151

Weather Conditions:

Sunny 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	
10/17/2022 11:29 AM	00:00	6.15 pH	25.98 °C	146.33 µS/cm	0.45 mg/L	2.24 NTU	8.2 mV	16.28 ft	400.00 ml/min
10/17/2022 11:34 AM	05:00	6.13 pH	24.06 °C	151.10 µS/cm	0.22 mg/L	1.99 NTU	-6.5 mV	16.28 ft	400.00 ml/min
10/17/2022 11:39 AM	10:00	6.15 pH	24.00 °C	151.54 µS/cm	0.20 mg/L	1.50 NTU	6.9 mV	16.28 ft	400.00 ml/min
10/17/2022 11:44 AM	15:00	6.15 pH	23.97 °C	151.42 µS/cm	0.19 mg/L	1.34 NTU	5.6 mV	16.28 ft	400.00 ml/min
10/17/2022 11:49 AM	20:00	6.12 pH	24.06 °C	150.23 µS/cm	0.19 mg/L	0.92 NTU	2.7 mV	16.28 ft	400.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 10/17/2022 1:03:00 PM

Project: Watson CCR APMW-1R

Operator Name: Brett Surles

Location Name: Watson CCR APMW-1R Well Diameter: 2 in Casing Type: PE Screen Length: 10 ft Top of Screen: 28.6 ft Total Depth: 38.6 ft Initial Depth to Water: 24.66 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 33.6 m Estimated Total Volume Pumped: 10 gal Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.42 ft	Instrument Used: Aqua TROLL 400 Serial Number: 800306
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Test Notes:

Weather Conditions:

Sunny 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	
10/17/2022 1:03 PM	00:00	5.91 pH	26.37 °C	5,655.8 µS/cm	0.31 mg/L	9.89 NTU	-43.9 mV	25.03 ft	400.00 ml/min
10/17/2022 1:08 PM	05:00	6.00 pH	24.76 °C	6,065.5 µS/cm	0.17 mg/L	16.10 NTU	-92.6 mV	25.08 ft	400.00 ml/min
10/17/2022 1:13 PM	10:00	6.22 pH	24.45 °C	7,042.8 µS/cm	0.16 mg/L	9.27 NTU	-67.0 mV	25.08 ft	400.00 ml/min
10/17/2022 1:18 PM	15:00	6.28 pH	24.40 °C	7,259.1 µS/cm	0.16 mg/L	5.02 NTU	-68.9 mV	25.08 ft	400.00 ml/min
10/17/2022 1:23 PM	20:00	6.28 pH	24.33 °C	7,285.2 µS/cm	0.16 mg/L	2.44 NTU	-70.0 mV	25.08 ft	400.00 ml/min
10/17/2022 1:28 PM	25:00	6.27 pH	24.25 °C	7,238.0 µS/cm	0.15 mg/L	2.00 NTU	-69.8 mV	25.08 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-1R	Sample @1330

Low-Flow Test Report:

Test Date / Time: 10/17/2022 2:08:26 PM

Project: Watson CCR APMW-2

Operator Name: Brett Surles

Location Name: Watson CCR APMW-2 Well Diameter: 2 in Casing Type: PE Screen Length: 10 ft Top of Screen: 32.9 ft Total Depth: 42.9 ft Initial Depth to Water: 22.6 ft	Pump Type: PP Tubing Type: PP Pump Intake From TOC: 37.9 ft Estimated Total Volume Pumped: 8 gal Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.08 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	
10/17/2022 2:08 PM	00:00	5.06 pH	26.88 °C	6,577.3 µS/cm	3.42 mg/L	2.27 NTU	86.4 mV	22.68 ft	400.00 ml/min
10/17/2022 2:13 PM	05:00	5.83 pH	24.27 °C	6,743.5 µS/cm	0.40 mg/L	0.48 NTU	-34.7 mV	22.68 ft	400.00 ml/min
10/17/2022 2:18 PM	10:00	5.86 pH	24.15 °C	6,788.8 µS/cm	0.27 mg/L	0.35 NTU	-32.6 mV	22.68 ft	400.00 ml/min
10/17/2022 2:23 PM	15:00	5.87 pH	24.04 °C	6,796.1 µS/cm	0.26 mg/L	0.26 NTU	-34.8 mV	22.68 ft	400.00 ml/min
10/17/2022 2:28 PM	20:00	5.87 pH	24.01 °C	6,849.0 µS/cm	0.22 mg/L	0.21 NTU	-35.6 mV	22.68 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-2	Sample @1430

Low-Flow Test Report:

Test Date / Time: 10/18/2022 7:10:04 AM

Project: Watson CCR APMW-2D

Operator Name: Brett Surles

Location Name: Watson CCR APMW-2D Well Diameter: 2 in Casing Type: PE Screen Length: 10 ft Top of Screen: 152.8 ft Total Depth: 162.8 ft Initial Depth to Water: 14.83 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 157.2 ft Estimated Total Volume Pumped: 18 gal Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.17 ft	Instrument Used: Aqua TROLL 400 Serial Number: 800306
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Test Notes:

Weather Conditions:

Sunny 49

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	
10/18/2022 7:10 AM	00:00	6.83 pH	13.81 °C	197.82 µS/cm	2.53 mg/L	37.50 NTU	-72.3 mV	15.00 ft	400.00 ml/min
10/18/2022 7:15 AM	05:00	7.25 pH	18.08 °C	174.57 µS/cm	0.32 mg/L	14.00 NTU	-141.4 mV	15.00 ft	400.00 ml/min
10/18/2022 7:20 AM	10:00	7.39 pH	18.46 °C	172.42 µS/cm	0.25 mg/L	9.27 NTU	-86.9 mV	15.00 ft	400.00 ml/min
10/18/2022 7:25 AM	15:00	7.45 pH	18.59 °C	172.96 µS/cm	0.22 mg/L	6.66 NTU	-86.8 mV	15.00 ft	400.00 ml/min
10/18/2022 7:30 AM	20:00	7.50 pH	18.95 °C	172.62 µS/cm	0.20 mg/L	4.81 NTU	-88.6 mV	15.00 ft	400.00 ml/min
10/18/2022 7:35 AM	25:00	7.51 pH	18.95 °C	173.09 µS/cm	0.19 mg/L	4.12 NTU	-145.3 mV	15.00 ft	400.00 ml/min
10/18/2022 7:40 AM	30:00	7.52 pH	19.06 °C	172.43 µS/cm	0.17 mg/L	4.37 NTU	-146.3 mV	15.00 ft	400.00 ml/min
10/18/2022 7:45 AM	35:00	7.54 pH	19.17 °C	172.50 µS/cm	0.17 mg/L	4.59 NTU	-89.3 mV	15.00 ft	400.00 ml/min
10/18/2022 7:50 AM	40:00	7.55 pH	19.17 °C	172.68 µS/cm	0.17 mg/L	4.21 NTU	-89.1 mV	15.00 ft	400.00 ml/min
10/18/2022 7:55 AM	45:00	7.56 pH	19.25 °C	172.73 µS/cm	0.16 mg/L	3.41 NTU	-89.7 mV	15.00 ft	400.00 ml/min

Samples

Sample ID:	Description:
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APMW-2D

Sample @0758

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/18/2022 7:39:36 AM

Project: Watson CCR APMW-10D

Operator Name: Rick Hagendorfer

Location Name: Watson CCR 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: 14.24 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 203.9 ft Estimated Total Volume Pumped: 10000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.45 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Weather Conditions:

Sunny 49

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	
10/18/2022 7:39 AM	00:00	7.94 pH	15.02 °C	258.04 µS/cm	7.05 mg/L		96.1 mV	14.24 ft	400.00 ml/min
10/18/2022 7:44 AM	05:00	8.77 pH	21.06 °C	235.28 µS/cm	0.66 mg/L	3.18 NTU	67.3 mV	14.69 ft	400.00 ml/min
10/18/2022 7:49 AM	10:00	8.91 pH	21.49 °C	233.31 µS/cm	0.35 mg/L	2.89 NTU	60.5 mV	14.69 ft	400.00 ml/min
10/18/2022 7:54 AM	15:00	8.93 pH	21.67 °C	230.65 µS/cm	0.28 mg/L	3.23 NTU	55.6 mV	14.69 ft	400.00 ml/min
10/18/2022 7:59 AM	20:00	8.95 pH	21.63 °C	230.90 µS/cm	0.25 mg/L	3.24 NTU	50.7 mV	14.69 ft	400.00 ml/min
10/18/2022 8:04 AM	25:00	8.95 pH	21.56 °C	230.12 µS/cm	0.23 mg/L	3.54 NTU	47.5 mV	14.69 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW10D	Sample time 0808

Low-Flow Test Report:

Test Date / Time: 10/18/2022 8:36:17 AM

Project: Watson CCR APMW-3

Operator Name: Brett Surles

Location Name: Watson CCR-APMW-3 Well Diameter: 2 in Casing Type: PE Screen Length: 10 ft Top of Screen: 26.6 ft Total Depth: 36.6 ft Initial Depth to Water: 7.45 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 31.6 ft Estimated Total Volume Pumped: 22 gal 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 55

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	
10/18/2022 8:36 AM	00:00	6.46 pH	17.48 °C	8,655.3 µS/cm	0.40 mg/L	3.05 NTU	-58.6 mV	7.50 ft	400.00 ml/min
10/18/2022 8:41 AM	05:00	6.48 pH	18.82 °C	8,370.6 µS/cm	0.21 mg/L	2.39 NTU	-55.6 mV	7.50 ft	400.00 ml/min
10/18/2022 8:46 AM	10:00	6.48 pH	18.99 °C	8,327.8 µS/cm	0.17 mg/L	2.11 NTU	-55.1 mV	7.50 ft	400.00 ml/min
10/18/2022 8:51 AM	15:00	6.48 pH	19.22 °C	8,384.2 µS/cm	0.16 mg/L	1.71 NTU	-57.0 mV	7.50 ft	400.00 ml/min
10/18/2022 8:56 AM	20:00	6.74 pH	19.04 °C	15,066 µS/cm	0.15 mg/L	1.13 NTU	-63.4 mV	7.50 ft	400.00 ml/min
10/18/2022 9:01 AM	25:00	6.59 pH	19.09 °C	20,411 µS/cm	0.14 mg/L	0.78 NTU	-81.4 mV	7.50 ft	400.00 ml/min
10/18/2022 9:06 AM	30:00	6.59 pH	19.03 °C	20,856 µS/cm	0.14 mg/L	0.61 NTU	-74.5 mV	7.50 ft	400.00 ml/min
10/18/2022 9:11 AM	35:00	6.59 pH	19.14 °C	21,095 µS/cm	0.14 mg/L	0.48 NTU	-28.3 mV	7.50 ft	400.00 ml/min
10/18/2022 9:16 AM	40:00	6.60 pH	19.53 °C	21,065 µS/cm	0.14 mg/L	0.51 NTU	-70.6 mV	7.50 ft	400.00 ml/min
10/18/2022 9:21 AM	45:00	6.60 pH	19.31 °C	20,858 µS/cm	0.13 mg/L	0.44 NTU	-25.6 mV	7.50 ft	400.00 ml/min
10/18/2022 9:26 AM	50:00	6.61 pH	19.50 °C	20,977 µS/cm	0.14 mg/L	0.27 NTU	-27.9 mV	7.50 ft	400.00 ml/min
10/18/2022 9:31 AM	55:00	6.61 pH	19.48 °C	20,986 µS/cm	0.13 mg/L	0.26 NTU	-28.4 mV	7.50 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-3	Sample @0932

Low-Flow Test Report:

Test Date / Time: 10/18/2022 9:01:55 AM

Project: Watson CCR APMW-10

Operator Name: Rick Hagendorfer

Location Name: Watson CCR 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: 20.01 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 27.9 ft Estimated Total Volume Pumped: 20000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.24 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Weather Conditions:

Sunny 52

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	
10/18/2022 9:01 AM	00:00	6.96 pH	19.77 °C	2,976.0 µS/cm	2.49 mg/L		90.1 mV	20.01 ft	400.00 ml/min
10/18/2022 9:06 AM	05:00	6.60 pH	22.00 °C	2,727.1 µS/cm	0.31 mg/L	0.93 NTU	38.9 mV	20.25 ft	400.00 ml/min
10/18/2022 9:11 AM	10:00	6.67 pH	22.07 °C	2,713.8 µS/cm	0.21 mg/L	0.67 NTU	21.1 mV	20.25 ft	400.00 ml/min
10/18/2022 9:16 AM	15:00	6.71 pH	22.09 °C	2,709.0 µS/cm	0.18 mg/L	0.53 NTU	-10.2 mV	20.25 ft	400.00 ml/min
10/18/2022 9:21 AM	20:00	6.74 pH	21.99 °C	2,710.0 µS/cm	0.17 mg/L	0.50 NTU	-33.7 mV	20.25 ft	400.00 ml/min
10/18/2022 9:26 AM	25:00	6.78 pH	21.92 °C	2,739.6 µS/cm	0.17 mg/L	0.43 NTU	-50.4 mV	20.25 ft	400.00 ml/min
10/18/2022 9:31 AM	30:00	6.82 pH	22.22 °C	2,796.1 µS/cm	0.17 mg/L	0.39 NTU	-63.4 mV	20.25 ft	400.00 ml/min
10/18/2022 9:36 AM	35:00	6.87 pH	22.08 °C	2,821.4 µS/cm	0.16 mg/L	0.35 NTU	-72.6 mV	20.25 ft	400.00 ml/min
10/18/2022 9:41 AM	40:00	6.91 pH	22.09 °C	2,843.3 µS/cm	0.16 mg/L	0.34 NTU	-79.2 mV	20.25 ft	400.00 ml/min
10/18/2022 9:46 AM	45:00	6.95 pH	22.09 °C	2,881.1 µS/cm	0.16 mg/L	0.39 NTU	-84.5 mV	20.25 ft	400.00 ml/min
10/18/2022 9:51 AM	50:00	6.98 pH	22.16 °C	2,884.8 µS/cm	0.15 mg/L	0.33 NTU	-89.3 mV	20.25 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-10	Sample time 0954. Dup-02 fake time 0854. FB-01 sample time 0906.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/18/2022 10:00:01 AM

Project: Watson CCR APMW-3D

Operator Name: Brett Surles

Location Name: Watson CCR APMW-3D Well Diameter: 2 in Casing Type: PE Screen Length: 5 ft Top of Screen: 88.1 ft Total Depth: 93.1 ft Initial Depth to Water: 7.15 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 91.1 ft Estimated Total Volume Pumped: 26 liter Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 1.51 ft	Instrument Used: Aqua TROLL 400 Serial Number: 800306
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Test Notes:

Weather Conditions:

Sunny 55

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	
10/18/2022 10:00 AM	00:00	7.13 pH	20.77 °C	237.71 µS/cm	0.16 mg/L	1.50 NTU	-77.4 mV	8.44 ft	400.00 ml/min
10/18/2022 10:05 AM	05:00	7.08 pH	20.77 °C	238.11 µS/cm	0.15 mg/L	1.14 NTU	-126.7 mV	8.54 ft	400.00 ml/min
10/18/2022 10:10 AM	10:00	7.05 pH	20.82 °C	235.04 µS/cm	0.13 mg/L	0.87 NTU	-130.1 mV	8.59 ft	400.00 ml/min
10/18/2022 10:15 AM	15:00	7.04 pH	20.55 °C	235.81 µS/cm	0.13 mg/L	0.95 NTU	-73.9 mV	8.62 ft	400.00 ml/min
10/18/2022 10:20 AM	20:00	7.03 pH	20.59 °C	236.09 µS/cm	0.13 mg/L	0.88 NTU	-74.1 mV	8.65 ft	400.00 ml/min
10/18/2022 10:25 AM	25:00	7.01 pH	20.55 °C	236.92 µS/cm	0.13 mg/L	0.74 NTU	-134.0 mV	8.65 ft	400.00 ml/min
10/18/2022 10:30 AM	30:00	7.00 pH	20.61 °C	236.99 µS/cm	0.12 mg/L	0.58 NTU	-74.9 mV	8.66 ft	400.00 ml/min
10/18/2022 10:35 AM	35:00	7.00 pH	20.69 °C	235.80 µS/cm	0.12 mg/L	0.44 NTU	-136.4 mV	8.66 ft	400.00 ml/min
10/18/2022 10:40 AM	40:00	6.99 pH	20.64 °C	234.43 µS/cm	0.12 mg/L	0.57 NTU	-75.6 mV	8.66 ft	400.00 ml/min
10/18/2022 10:45 AM	45:00	6.98 pH	20.81 °C	232.96 µS/cm	0.12 mg/L	0.33 NTU	-76.0 mV	8.66 ft	400.00 ml/min
10/18/2022 10:50 AM	50:00	6.98 pH	20.62 °C	233.09 µS/cm	0.12 mg/L	0.45 NTU	-137.8 mV	8.66 ft	400.00 ml/min
10/18/2022 10:55 AM	55:00	6.98 pH	20.82 °C	232.26 µS/cm	0.12 mg/L	0.62 NTU	-76.2 mV	8.66 ft	400.00 ml/min
10/18/2022 11:00 AM	01:00:00	6.97 pH	20.64 °C	231.91 µS/cm	0.12 mg/L	0.77 NTU	-75.3 mV	8.66 ft	400.00 ml/min

10/18/2022 11:05 AM	01:05:00	6.97 pH	20.73 °C	231.86 µS/cm	0.12 mg/L	71.00 NTU	-75.5 mV	8.66 ft	400.00 ml/min
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Samples

Sample ID:	Description:
APMW-3D	Sample @1105

Low-Flow Test Report:

Test Date / Time: 10/18/2022 10:44:17 AM

Project: Watson CCR APMW-9

Operator Name: Rick Hagendorfer

Location Name: Watson CCR 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: 21.82 ft	Pump Type: BP 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: 0.2 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Weather Conditions:

Sunny 56

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	
10/18/2022 10:44 AM	00:00	6.82 pH	18.84 °C	9,811.3 µS/cm	6.49 mg/L		12.6 mV	21.82 ft	400.00 ml/min
10/18/2022 10:49 AM	05:00	6.30 pH	21.20 °C	9,211.9 µS/cm	0.24 mg/L	0.64 NTU	-5.2 mV	22.02 ft	400.00 ml/min
10/18/2022 10:54 AM	10:00	6.32 pH	21.18 °C	9,275.5 µS/cm	0.20 mg/L	0.49 NTU	-12.7 mV	22.02 ft	400.00 ml/min
10/18/2022 10:59 AM	15:00	6.32 pH	21.10 °C	9,279.4 µS/cm	0.19 mg/L	0.38 NTU	-16.6 mV	22.02 ft	400.00 ml/min
10/18/2022 11:04 AM	20:00	6.32 pH	21.05 °C	9,290.2 µS/cm	0.19 mg/L	0.39 NTU	-19.1 mV	22.02 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-9	Sample time 1107.
APMW-9	Sample time 1107. EB-01 sample time 1053.

Low-Flow Test Report:

Test Date / Time: 10/18/2022 12:00:26 PM

Project: Watson CCR APMW-4D

Operator Name: Brett Surles

Location Name: Watson CCR APMW-4D Well Diameter: 2 in Casing Type: PE Screen Length: 10 ft Top of Screen: 90.3 ft Total Depth: 100.3 ft Initial Depth to Water: 11.06 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 95.3 ft Estimated Total Volume Pumped: 32 gal Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.14 ft	Instrument Used: Aqua TROLL 400 Serial Number: 800306
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Test Notes:

ORP Would not stabilize

Weather Conditions:

Sunny 60

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	
10/18/2022 12:00 PM	00:00	7.56 pH	22.11 °C	19,905 µS/cm	0.31 mg/L	1.34 NTU	-117.4 mV	11.20 ft	400.00 ml/min
10/18/2022 12:05 PM	05:00	7.61 pH	22.20 °C	19,753 µS/cm	0.18 mg/L	1.28 NTU	-170.9 mV	11.20 ft	400.00 ml/min
10/18/2022 12:10 PM	10:00	7.62 pH	22.25 °C	19,767 µS/cm	0.14 mg/L	1.04 NTU	-130.0 mV	11.20 ft	400.00 ml/min
10/18/2022 12:15 PM	15:00	7.66 pH	22.33 °C	19,732 µS/cm	0.13 mg/L	1.07 NTU	-193.1 mV	11.20 ft	400.00 ml/min
10/18/2022 12:20 PM	20:00	7.84 pH	22.56 °C	19,746 µS/cm	0.12 mg/L	0.89 NTU	-139.5 mV	11.20 ft	400.00 ml/min
10/18/2022 12:25 PM	25:00	7.03 pH	22.47 °C	20,202 µS/cm	0.12 mg/L	0.69 NTU	-89.4 mV	11.20 ft	400.00 ml/min
10/18/2022 12:30 PM	30:00	6.95 pH	22.54 °C	20,266 µS/cm	0.12 mg/L	0.66 NTU	-80.0 mV	11.20 ft	400.00 ml/min
10/18/2022 12:35 PM	35:00	6.94 pH	22.68 °C	20,229 µS/cm	0.11 mg/L	0.54 NTU	-128.7 mV	11.20 ft	400.00 ml/min
10/18/2022 12:40 PM	40:00	6.93 pH	22.83 °C	20,223 µS/cm	0.11 mg/L	0.48 NTU	-71.5 mV	11.20 ft	400.00 ml/min
10/18/2022 12:45 PM	45:00	6.93 pH	22.85 °C	20,192 µS/cm	0.11 mg/L	0.32 NTU	-66.9 mV	11.20 ft	400.00 ml/min
10/18/2022 12:50 PM	50:00	6.93 pH	22.93 °C	20,186 µS/cm	0.11 mg/L	0.45 NTU	-115.9 mV	11.20 ft	400.00 ml/min
10/18/2022 12:55 PM	55:00	6.93 pH	22.88 °C	20,195 µS/cm	0.11 mg/L	0.64 NTU	-111.8 mV	11.20 ft	400.00 ml/min
10/18/2022 1:00 PM	01:00:00	6.93 pH	22.87 °C	20,165 µS/cm	0.11 mg/L	0.53 NTU	-58.8 mV	11.20 ft	400.00 ml/min

10/18/2022 1:05 PM	01:05:00	6.93 pH	22.95 °C	20,147 µS/cm	0.10 mg/L	0.40 NTU	-106.6 mV	11.20 ft	400.00 ml/min
10/18/2022 1:10 PM	01:10:00	6.92 pH	22.94 °C	20,194 µS/cm	0.11 mg/L	0.46 NTU	-54.6 mV	11.20 ft	400.00 ml/min
10/18/2022 1:15 PM	01:15:00	6.93 pH	23.03 °C	20,132 µS/cm	0.10 mg/L	0.56 NTU	-102.0 mV	11.20 ft	400.00 ml/min
10/18/2022 1:20 PM	01:20:00	6.93 pH	23.11 °C	20,122 µS/cm	0.10 mg/L	0.67 NTU	-53.2 mV	11.20 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-4D	Sample @1323

Low-Flow Test Report:

Test Date / Time: 10/18/2022 1:39:06 PM

Project: Watson CCR APMW-8

Operator Name: Rick Hagendorfer

Location Name: Watson CCR 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: 21.09 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 37.8 ft Estimated Total Volume Pumped: 16000 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: 852546
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Test Notes:

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	+/- 10	+/- 0.3	
10/18/2022 1:39 PM	00:00	6.53 pH	19.57 °C	12,285 µS/cm	8.56 mg/L		106.1 mV	21.09 ft	400.00 ml/min
10/18/2022 1:44 PM	05:00	6.41 pH	21.82 °C	10,866 µS/cm	0.64 mg/L	11.30 NTU	32.0 mV	21.27 ft	400.00 ml/min
10/18/2022 1:49 PM	10:00	6.56 pH	21.86 °C	11,137 µS/cm	0.27 mg/L	8.00 NTU	15.0 mV	21.27 ft	400.00 ml/min
10/18/2022 1:54 PM	15:00	6.62 pH	21.77 °C	11,230 µS/cm	0.24 mg/L	5.22 NTU	3.2 mV	21.27 ft	400.00 ml/min
10/18/2022 1:59 PM	20:00	6.64 pH	21.90 °C	11,270 µS/cm	0.23 mg/L	3.47 NTU	-6.0 mV	21.27 ft	400.00 ml/min
10/18/2022 2:04 PM	25:00	6.65 pH	22.00 °C	11,301 µS/cm	0.22 mg/L	2.68 NTU	-13.3 mV	21.27 ft	400.00 ml/min
10/18/2022 2:09 PM	30:00	6.66 pH	21.91 °C	11,319 µS/cm	0.22 mg/L	2.30 NTU	-19.2 mV	21.27 ft	400.00 ml/min
10/18/2022 2:14 PM	35:00	6.66 pH	21.91 °C	11,327 µS/cm	0.21 mg/L	1.69 NTU	-24.3 mV	21.27 ft	400.00 ml/min
10/18/2022 2:19 PM	40:00	6.67 pH	22.04 °C	11,344 µS/cm	0.20 mg/L	1.27 NTU	-29.0 mV	21.27 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-8	Sample 1421

Low-Flow Test Report:

Test Date / Time: 10/18/2022 2:58:20 PM

Project: Watson CCR APMW-8D

Operator Name: Rick Hagendorfer

Location Name: Watson CCR 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: 20.09 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 10000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 1.42 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Weather Conditions:

Sunny 65

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	
10/18/2022 2:58 PM	00:00	8.08 pH	22.22 °C	581.80 µS/cm	2.83 mg/L		-102.8 mV	20.09 ft	400.00 ml/min
10/18/2022 3:03 PM	05:00	7.01 pH	22.00 °C	200.49 µS/cm	0.27 mg/L	5.30 NTU	-94.2 mV	21.51 ft	400.00 ml/min
10/18/2022 3:08 PM	10:00	6.87 pH	22.04 °C	187.41 µS/cm	0.21 mg/L	1.35 NTU	-91.8 mV	21.51 ft	400.00 ml/min
10/18/2022 3:13 PM	15:00	6.80 pH	22.10 °C	177.98 µS/cm	0.18 mg/L	0.65 NTU	-88.8 mV	21.51 ft	400.00 ml/min
10/18/2022 3:18 PM	20:00	6.74 pH	21.99 °C	173.59 µS/cm	0.17 mg/L	0.77 NTU	-84.8 mV	21.51 ft	400.00 ml/min
10/18/2022 3:23 PM	25:00	6.70 pH	22.13 °C	173.27 µS/cm	0.17 mg/L	0.39 NTU	-82.2 mV	21.51 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-8D	Sample time 1526.

Low-Flow Test Report:

Test Date / Time: 10/18/2022 4:13:33 PM

Project: Watson CCR APMW-7

Operator Name: Rick Hagendorfer

Location Name: Watson CCR 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: 12 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 32.4 ft Estimated Total Volume Pumped: 14400 ml Flow Cell Volume: 90 ml Final Flow Rate: 360 ml/min Final Draw Down: 0.48 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Weather Conditions:

P/C 62

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	
10/18/2022 4:13 PM	00:00	6.80 pH	22.76 °C	12,839 µS/cm	2.83 mg/L		46.6 mV	12.00 ft	360.00 ml/min
10/18/2022 4:18 PM	05:00	6.40 pH	21.68 °C	12,002 µS/cm	0.20 mg/L	0.99 NTU	-51.2 mV	12.41 ft	360.00 ml/min
10/18/2022 4:23 PM	10:00	6.38 pH	21.68 °C	11,992 µS/cm	0.15 mg/L	0.47 NTU	-103.8 mV	12.48 ft	360.00 ml/min
10/18/2022 4:28 PM	15:00	6.38 pH	21.63 °C	11,889 µS/cm	0.15 mg/L	0.63 NTU	-136.4 mV	12.48 ft	360.00 ml/min
10/18/2022 4:33 PM	20:00	6.39 pH	21.39 °C	11,761 µS/cm	0.16 mg/L	0.61 NTU	-218.4 mV	12.48 ft	360.00 ml/min
10/18/2022 4:38 PM	25:00	6.40 pH	21.30 °C	11,919 µS/cm	0.16 mg/L	0.56 NTU	-238.8 mV	12.48 ft	360.00 ml/min
10/18/2022 4:43 PM	30:00	6.42 pH	21.35 °C	11,888 µS/cm	0.16 mg/L	0.40 NTU	-247.0 mV	12.48 ft	360.00 ml/min
10/18/2022 4:48 PM	35:00	6.42 pH	21.29 °C	12,210 µS/cm	0.17 mg/L	0.36 NTU	-251.1 mV	12.48 ft	360.00 ml/min
10/18/2022 4:53 PM	40:00	6.43 pH	21.28 °C	12,135 µS/cm	0.17 mg/L	0.36 NTU	-254.9 mV	12.48 ft	360.00 ml/min

Samples

Sample ID:	Description:
APMW-7	Sample time 1655.

EB-02	Sample time 1632.
FB-02	Sample time 1623

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/19/2022 7:37:10 AM

Project: Watson CCR APMW-6R

Operator Name: Brett Surles

Location Name: Watson CCR APMW-6R Well Diameter: 2 in Casing Type: PE Screen Length: 10 ft Top of Screen: 41.8 ft Total Depth: 51.8 ft Initial Depth to Water: 7.08 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 46.8 ft Estimated Total Volume Pumped: 18 gal Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.03 ft	Instrument Used: Aqua TROLL 400 Serial Number: 800306
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Test Notes:

Weather Conditions:

Sunny 38

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	
10/19/2022 7:37 AM	00:00	5.77 pH	10.43 °C	10,541 µS/cm	2.32 mg/L	6.86 NTU	-14.7 mV	7.11 ft	400.00 ml/min
10/19/2022 7:42 AM	05:00	6.24 pH	17.97 °C	8,856.2 µS/cm	0.23 mg/L	5.09 NTU	-58.7 mV	7.11 ft	400.00 ml/min
10/19/2022 7:47 AM	10:00	6.29 pH	18.48 °C	8,729.6 µS/cm	0.17 mg/L	4.44 NTU	-33.5 mV	7.11 ft	400.00 ml/min
10/19/2022 7:52 AM	15:00	6.31 pH	18.71 °C	8,710.4 µS/cm	0.15 mg/L	3.51 NTU	-33.6 mV	7.11 ft	400.00 ml/min
10/19/2022 7:57 AM	20:00	6.32 pH	18.88 °C	8,681.1 µS/cm	0.13 mg/L	3.01 NTU	-33.4 mV	7.11 ft	400.00 ml/min
10/19/2022 8:02 AM	25:00	6.28 pH	18.95 °C	8,804.0 µS/cm	0.13 mg/L	2.67 NTU	-32.2 mV	7.11 ft	400.00 ml/min
10/19/2022 8:07 AM	30:00	6.19 pH	18.79 °C	9,539.6 µS/cm	0.12 mg/L	2.41 NTU	-29.3 mV	7.11 ft	400.00 ml/min
10/19/2022 8:12 AM	35:00	6.12 pH	18.90 °C	10,022 µS/cm	0.12 mg/L	2.12 NTU	-24.0 mV	7.11 ft	400.00 ml/min
10/19/2022 8:17 AM	40:00	6.10 pH	19.03 °C	10,221 µS/cm	0.11 mg/L	2.01 NTU	-22.6 mV	7.11 ft	400.00 ml/min
10/19/2022 8:22 AM	45:00	6.10 pH	18.99 °C	10,210 µS/cm	0.11 mg/L	1.57 NTU	-20.8 mV	7.11 ft	400.00 ml/min

Samples

Sample ID:	Description:
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APMW-6R

Sample @0824

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/19/2022 8:47:03 AM

Project: Watson CCR APMW-6D

Operator Name: Brett Surles

Location Name: Watson CCR APMW6D Well Diameter: 2 in Casing Type: PE Screen Length: 10 ft Top of Screen: 95.9 ft Total Depth: 105.9 ft Initial Depth to Water: 7.45 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 100.9 ft Estimated Total Volume Pumped: 10 ft ³ Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.03 ft	Instrument Used: Aqua TROLL 400 Serial Number: 800306
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Test Notes:

Weather Conditions:

Sunny 45

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	
10/19/2022 8:47 AM	00:00	7.16 pH	16.38 °C	213.17 µS/cm	1.31 mg/L	1.86 NTU	-23.2 mV	7.48 ft	400.00 ml/min
10/19/2022 8:52 AM	05:00	7.24 pH	18.79 °C	181.74 µS/cm	0.67 mg/L	1.75 NTU	11.5 mV	7.48 ft	400.00 ml/min
10/19/2022 8:57 AM	10:00	7.24 pH	18.99 °C	179.68 µS/cm	0.58 mg/L	1.68 NTU	24.2 mV	7.48 ft	400.00 ml/min
10/19/2022 9:02 AM	15:00	7.23 pH	19.30 °C	178.47 µS/cm	0.53 mg/L	1.53 NTU	30.6 mV	7.48 ft	400.00 ml/min
10/19/2022 9:07 AM	20:00	7.20 pH	19.31 °C	181.65 µS/cm	0.53 mg/L	1.52 NTU	34.0 mV	7.48 ft	400.00 ml/min
10/19/2022 9:12 AM	25:00	7.20 pH	19.13 °C	178.08 µS/cm	0.50 mg/L	1.49 NTU	37.2 mV	7.48 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-6D	Sample @0912

Low-Flow Test Report:

Test Date / Time: 10/19/2022 9:40:46 AM

Project: Watson CCR APMW-5

Operator Name: Brett Surles

Location Name: Watson CCR APMW-5 Well Diameter: 2 in Casing Type: PE Screen Length: 10 ft Top of Screen: 26.6 ft Total Depth: 36.6 ft Initial Depth to Water: 7.95 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 31.6 ft Estimated Total Volume Pumped: 10 liter Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 800306
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Test Notes:

Weather Conditions:

Sunny 55

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	
10/19/2022 9:40 AM	00:00	7.03 pH	18.01 °C	5,575.5 µS/cm	2.09 mg/L	1.57 NTU	40.8 mV	7.99 ft	400.00 ml/min
10/19/2022 9:45 AM	05:00	7.01 pH	19.32 °C	5,682.9 µS/cm	1.77 mg/L	2.37 NTU	63.1 mV	7.99 ft	400.00 ml/min
10/19/2022 9:50 AM	10:00	6.49 pH	19.84 °C	16,367 µS/cm	0.20 mg/L	1.65 NTU	-39.7 mV	7.99 ft	400.00 ml/min
10/19/2022 9:55 AM	15:00	6.36 pH	19.89 °C	18,642 µS/cm	0.15 mg/L	1.37 NTU	-23.0 mV	7.99 ft	400.00 ml/min
10/19/2022 10:00 AM	20:00	6.37 pH	19.74 °C	19,025 µS/cm	0.14 mg/L	1.21 NTU	-26.4 mV	7.99 ft	400.00 ml/min
10/19/2022 10:05 AM	25:00	6.38 pH	19.75 °C	19,180 µS/cm	0.13 mg/L	1.08 NTU	-27.5 mV	7.99 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-5	Sample @1006 , DUP -03@0906

Low-Flow Test Report:

Test Date / Time: 10/19/2022 10:20:16 AM

Project: Watson CCR APMW-14

Operator Name: Rick Hagendorfer

Location Name: Watson CCR 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: 2.36 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 19 ft Estimated Total Volume Pumped: 15258 ml Flow Cell Volume: 90 ml Final Flow Rate: 360 ml/min Final Draw Down: 0.16 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Weather Conditions:

Sunny 52

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	
10/19/2022 10:20 AM	00:00	5.77 pH	20.44 °C	9,493.9 µS/cm	1.63 mg/L		87.6 mV	2.36 ft	360.00 ml/min
10/19/2022 10:25 AM	05:00	5.99 pH	22.57 °C	9,324.8 µS/cm	0.20 mg/L	11.20 NTU	60.5 mV	2.52 ft	360.00 ml/min
10/19/2022 10:27 AM	07:23	6.01 pH	22.71 °C	9,357.6 µS/cm	0.18 mg/L	9.51 NTU	54.0 mV	2.52 ft	360.00 ml/min
10/19/2022 10:32 AM	12:23	6.04 pH	22.85 °C	9,377.6 µS/cm	0.16 mg/L	10.30 NTU	43.6 mV	2.52 ft	360.00 ml/min
10/19/2022 10:37 AM	17:23	6.05 pH	22.82 °C	9,425.7 µS/cm	0.15 mg/L	11.00 NTU	35.9 mV	2.52 ft	360.00 ml/min
10/19/2022 10:42 AM	22:23	6.06 pH	22.98 °C	9,473.1 µS/cm	0.14 mg/L	9.73 NTU	29.7 mV	2.52 ft	360.00 ml/min
10/19/2022 10:47 AM	27:23	6.07 pH	23.03 °C	9,482.3 µS/cm	0.14 mg/L	7.01 NTU	24.7 mV	2.52 ft	360.00 ml/min
10/19/2022 10:52 AM	32:23	6.06 pH	23.00 °C	9,508.9 µS/cm	0.13 mg/L	4.39 NTU	20.7 mV	2.52 ft	360.00 ml/min
10/19/2022 10:57 AM	37:23	6.07 pH	22.94 °C	9,478.8 µS/cm	0.13 mg/L	4.17 NTU	17.4 mV	2.52 ft	360.00 ml/min
10/19/2022 11:02 AM	42:23	6.07 pH	22.93 °C	9,497.6 µS/cm	0.13 mg/L	3.18 NTU	14.6 mV	2.52 ft	360.00 ml/min

Samples

Sample ID:	Description:
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APMW-14

Sample time 1105

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/19/2022 10:43:56 AM

Project: Watson CCR APMW-5

Operator Name: Brett Surles

Location Name: Watson CCR APMW-5D Well Diameter: 2 in Casing Type: PE Screen Length: 10 ft Top of Screen: 101.5 ft Total Depth: 111.5 ft Initial Depth to Water: 7.8 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 106.5 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 1.59 ft	Instrument Used: Aqua TROLL 400 Serial Number: 800306
--	---	---

Test Notes:

Weather Conditions:

Sunny 55

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	
10/19/2022 10:43 AM	00:00	7.37 pH	20.40 °C	164.77 µS/cm	0.33 mg/L	5.00 NTU	-59.9 mV	8.91 ft	400.00 ml/min
10/19/2022 10:48 AM	05:00	7.05 pH	21.22 °C	152.88 µS/cm	0.19 mg/L	4.27 NTU	-58.2 mV	9.27 ft	400.00 ml/min
10/19/2022 10:53 AM	10:00	6.98 pH	21.28 °C	151.73 µS/cm	0.16 mg/L	4.04 NTU	-59.0 mV	9.36 ft	400.00 ml/min
10/19/2022 10:58 AM	15:00	6.96 pH	21.31 °C	151.15 µS/cm	0.14 mg/L	3.93 NTU	-59.5 mV	9.39 ft	400.00 ml/min
10/19/2022 11:03 AM	20:00	6.94 pH	21.23 °C	150.50 µS/cm	0.14 mg/L	3.88 NTU	-60.7 mV	9.39 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-5D	Sample @1105

Low-Flow Test Report:

Test Date / Time: 10/19/2022 11:32:16 AM

Project: Watson CCR APMW-4

Operator Name: Brett Surles

Location Name: Watson CCR APMW4 Well Diameter: 2 in Casing Type: PE Screen Length: 10 ft Top of Screen: 27 ft Total Depth: 37 ft Initial Depth to Water: 12.6 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 32 ft Estimated Total Volume Pumped: 12 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:

Sunny55

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	
10/19/2022 11:32 AM	00:00	6.39 pH	19.35 °C	1,639.1 µS/cm	1.58 mg/L	5.91 NTU	40.8 mV	12.65 ft	400.00 ml/min
10/19/2022 11:37 AM	05:00	6.34 pH	21.58 °C	2,183.2 µS/cm	0.17 mg/L	4.82 NTU	10.2 mV	12.65 ft	400.00 ml/min
10/19/2022 11:42 AM	10:00	6.38 pH	21.75 °C	5,250.4 µS/cm	0.13 mg/L	3.55 NTU	-161.4 mV	12.65 ft	400.00 ml/min
10/19/2022 11:47 AM	15:00	6.32 pH	21.75 °C	6,172.6 µS/cm	0.12 mg/L	3.39 NTU	-180.5 mV	12.65 ft	400.00 ml/min
10/19/2022 11:52 AM	20:00	6.32 pH	21.57 °C	6,449.7 µS/cm	0.12 mg/L	3.12 NTU	-185.9 mV	12.65 ft	400.00 ml/min
10/19/2022 11:57 AM	25:00	6.32 pH	21.58 °C	6,555.3 µS/cm	0.11 mg/L	2.75 NTU	-191.0 mV	12.65 ft	400.00 ml/min
10/19/2022 12:02 PM	30:00	6.32 pH	21.66 °C	6,602.9 µS/cm	0.11 mg/L	2.22 NTU	-194.6 mV	12.65 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-4	Sample @1203, EB-03@1215. FB-03@1225

Low-Flow Test Report:

Test Date / Time: 10/19/2022 11:35:06 AM

Project: Watson CCR APMW-13

Operator Name: Rick Hagendorfer

Location Name: Watson CCR 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: 2.75 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: 0.14 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Weather Conditions:

Sunny 55

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	
10/19/2022 11:35 AM	00:00	6.25 pH	24.76 °C	5,164.3 µS/cm	1.92 mg/L		0.6 mV	2.75 ft	360.00 ml/min
10/19/2022 11:40 AM	05:00	6.08 pH	22.13 °C	5,508.3 µS/cm	0.20 mg/L	1.97 NTU	2.4 mV	2.89 ft	360.00 ml/min
10/19/2022 11:45 AM	10:00	6.08 pH	22.05 °C	5,460.9 µS/cm	0.16 mg/L	0.96 NTU	0.8 mV	2.89 ft	360.00 ml/min
10/19/2022 11:50 AM	15:00	6.08 pH	22.06 °C	5,488.5 µS/cm	0.15 mg/L	0.63 NTU	-0.6 mV	2.89 ft	360.00 ml/min
10/19/2022 11:55 AM	20:00	6.08 pH	22.16 °C	5,471.6 µS/cm	0.14 mg/L	0.68 NTU	-2.0 mV	2.89 ft	360.00 ml/min

Samples

Sample ID:	Description:
APMW-13	Sample time 1157

Low-Flow Test Report:

Test Date / Time: 10/19/2022 12:50:33 PM

Project: Watson CCR APMW-15

Operator Name: Rick Hagendorfer

Location Name: Watson CCR 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: 2.55 ft	Pump Type: PP 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: 0.07 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Weather Conditions:

Sunny 60.

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	
10/19/2022 12:50 PM	00:00	6.30 pH	30.63 °C	6,833.0 µS/cm	0.78 mg/L		-226.3 mV	2.55 ft	360.00 ml/min
10/19/2022 12:55 PM	05:00	6.55 pH	22.04 °C	7,953.1 µS/cm	0.20 mg/L	0.61 NTU	-348.3 mV	2.62 ft	360.00 ml/min
10/19/2022 1:00 PM	10:00	6.57 pH	21.59 °C	8,403.8 µS/cm	0.19 mg/L	0.44 NTU	-353.6 mV	2.62 ft	360.00 ml/min
10/19/2022 1:05 PM	15:00	6.58 pH	21.51 °C	8,550.4 µS/cm	0.18 mg/L	0.51 NTU	-356.3 mV	2.62 ft	360.00 ml/min
10/19/2022 1:10 PM	20:00	6.58 pH	21.49 °C	8,564.2 µS/cm	0.18 mg/L	0.64 NTU	-357.7 mV	2.62 ft	360.00 ml/min

Samples

Sample ID:	Description:
APMW-15	Sample time 1313

Low-Flow Test Report:

Test Date / Time: 10/19/2022 1:52:52 PM

Project: Watson CCR APMW-16

Operator Name: Rick Hagendorfer

Location Name: Watson CCR 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: 2.56 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 22 ft Estimated Total Volume Pumped: 9000 ml Flow Cell Volume: 90 ml Final Flow Rate: 360 ml/min Final Draw Down: 0.03 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Weather Conditions:

Sunny 65

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	
10/19/2022 1:52 PM	00:00	6.80 pH	30.55 °C	6,828.9 µS/cm	0.98 mg/L		-338.9 mV	2.56 ft	360.00 ml/min
10/19/2022 1:57 PM	05:00	6.63 pH	22.23 °C	8,848.7 µS/cm	0.20 mg/L	0.91 NTU	-365.1 mV	2.59 ft	360.00 ml/min
10/19/2022 2:02 PM	10:00	6.62 pH	21.64 °C	8,963.9 µS/cm	0.19 mg/L	0.52 NTU	-364.7 mV	2.59 ft	360.00 ml/min
10/19/2022 2:07 PM	15:00	6.64 pH	21.37 °C	8,941.6 µS/cm	0.18 mg/L	0.48 NTU	-364.7 mV	2.59 ft	360.00 ml/min
10/19/2022 2:12 PM	20:00	6.64 pH	21.37 °C	8,921.8 µS/cm	0.18 mg/L	0.46 NTU	-365.2 mV	2.59 ft	360.00 ml/min
10/19/2022 2:17 PM	25:00	6.64 pH	21.37 °C	8,865.5 µS/cm	0.17 mg/L	0.43 NTU	-364.9 mV	2.59 ft	360.00 ml/min

Samples

Sample ID:	Description:
APMW-16	Sample time 1419

ANALYTICAL REPORT

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

Laboratory Job ID: 180-146490-1

Client Project/Site: Plant Watson Ash Pond
Revision: 1

For:

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

Attn: Robert (Trey) Singleton



Authorized for release by:

11/9/2022 3:49:22 PM

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

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

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the {0} Project Manager.



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	15
QC Sample Results	31
QC Association Summary	36
Chain of Custody	40
Receipt Checklists	44

Case Narrative

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

Job ID: 180-146490-1

Job ID: 180-146490-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-146490-1

110922 Revised Report to change sample ID from APMW-0 (180-146490-10) to APMW-10 (180-146490-10) at client request. This report replaces the report previously issued on 110422.

Receipt

The samples were received on 10/19/2022 9:15 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 time was 2.1°C

HPLC/IC

Method 300_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: APMW-1R (180-146490-4), APMW-2 (180-146490-5), APMW-3 (180-146490-7), APMW-4D (180-146490-8), APMW-10 (180-146490-10), APMW-9 (180-146490-12), APMW-8 (180-146490-13) and DUP-02 (180-146490-14). 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.

Metals

Method 6020B: The continuing calibration verification (CCV) associated with batch 180-416793 recovered above the upper control limit for beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: APMW-2D (180-146490-6), APMW-3 (180-146490-7), APMW-4D (180-146490-8), APMW-3D (180-146490-9), APMW-10 (180-146490-10), APMW-10D (180-146490-11), APMW-9 (180-146490-12), APMW-8 (180-146490-13), DUP-02 (180-146490-14), EB-01 (180-146490-15), FB-01 (180-146490-16), (180-146490-D-16-E MS), (180-146490-D-16-F MSD), (180-146490-D-16-B PDS) and (180-146490-D-16-B SD ^5).

Method 6020B: The following samples were diluted to bring the concentration of target analytes within the calibration range: APMW-3 (180-146490-7), APMW-4D (180-146490-8), APMW-9 (180-146490-12) and APMW-8 (180-146490-13). 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

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: 180-146490-1

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
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
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: 180-146490-1

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	04-30-23
Connecticut	State	PH-0688	09-30-22 *
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	06-30-23
Kansas	NELAP	E-10350	03-31-23
Kentucky (UST)	State	162013	04-30-23
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-22
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	04-30-23
Oregon	NELAP	PA-2151	02-07-23
Pennsylvania	NELAP	02-00416	04-30-23
Rhode Island	State	LAO00362	12-31-22
South Carolina	State	89014	04-20-23
Texas	NELAP	T104704528	03-31-23
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-31-23
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-23

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

Eurofins Pittsburgh

Sample Summary

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

Job ID: 180-146490-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-146490-1	APMW-11	Water	10/17/22 08:40	10/19/22 09:15
180-146490-2	DUP-01	Water	10/17/22 09:40	10/19/22 09:15
180-146490-3	APMW-12	Water	10/17/22 11:51	10/19/22 09:15
180-146490-4	APMW-1R	Water	10/17/22 13:30	10/19/22 09:15
180-146490-5	APMW-2	Water	10/17/22 14:30	10/19/22 09:15
180-146490-6	APMW-2D	Water	10/18/22 07:58	10/19/22 09:15
180-146490-7	APMW-3	Water	10/18/22 09:32	10/19/22 09:15
180-146490-8	APMW-4D	Water	10/18/22 13:23	10/19/22 09:15
180-146490-9	APMW-3D	Water	10/18/22 11:05	10/19/22 09:15
180-146490-10	APMW-10	Water	10/18/22 09:54	10/19/22 09:15
180-146490-11	APMW-10D	Water	10/18/22 08:08	10/19/22 09:15
180-146490-12	APMW-9	Water	10/18/22 11:07	10/19/22 09:15
180-146490-13	APMW-8	Water	10/18/22 14:21	10/19/22 09:15
180-146490-14	DUP-02	Water	10/18/22 08:54	10/19/22 09:15
180-146490-15	EB-01	Water	10/18/22 10:53	10/19/22 09:15
180-146490-16	FB-01	Water	10/18/22 09:06	10/19/22 09:15



Method Summary

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

Job ID: 180-146490-1

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

EET 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: 180-146490-1

Client Sample ID: APMW-11

Lab Sample ID: 180-146490-1

Date Collected: 10/17/22 08:40

Matrix: Water

Date Received: 10/19/22 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			415803	10/21/22 18:40	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416793	10/28/22 18:38	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416095	10/25/22 07:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416171	10/25/22 14:13	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	415936	10/22/22 15:01	SNR	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01

Lab Sample ID: 180-146490-2

Date Collected: 10/17/22 09:40

Matrix: Water

Date Received: 10/19/22 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			415803	10/21/22 18:54	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416793	10/28/22 18:41	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416095	10/25/22 07:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416171	10/25/22 14:20	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	415902	10/21/22 18:23	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-12

Lab Sample ID: 180-146490-3

Date Collected: 10/17/22 11:51

Matrix: Water

Date Received: 10/19/22 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			415803	10/21/22 19:09	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416793	10/28/22 18:45	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416095	10/25/22 07:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416171	10/25/22 14:21	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	415902	10/21/22 18:23	LWM	EET PIT
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-146490-1

Client Sample ID: APMW-1R
Date Collected: 10/17/22 13:30
Date Received: 10/19/22 09:15

Lab Sample ID: 180-146490-4
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		1			415803	10/21/22 19:54	SNL	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		10			415803	10/21/22 20:08	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416793	10/28/22 18:48	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416939	11/01/22 15:46	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416095	10/25/22 07:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416171	10/25/22 14:22	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	415936	10/22/22 15:01	SNR	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-2
Date Collected: 10/17/22 14:30
Date Received: 10/19/22 09:15

Lab Sample ID: 180-146490-5
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		1			415803	10/21/22 20:23	SNL	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		5			415803	10/21/22 21:07	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416793	10/28/22 19:03	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416095	10/25/22 07:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416171	10/25/22 14:23	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	415902	10/21/22 18:23	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-2D
Date Collected: 10/18/22 07:58
Date Received: 10/19/22 09:15

Lab Sample ID: 180-146490-6
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			415803	10/21/22 21:22	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416793	10/28/22 19:25	RSK	EET PIT
Instrument ID: A										

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Lab Chronicle

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

Job ID: 180-146490-1

Client Sample ID: APMW-2D

Lab Sample ID: 180-146490-6

Date Collected: 10/18/22 07:58

Matrix: Water

Date Received: 10/19/22 09:15

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	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416939	11/01/22 15:50	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416095	10/25/22 07:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416171	10/25/22 14:24	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	415902	10/21/22 18:23	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-3

Lab Sample ID: 180-146490-7

Date Collected: 10/18/22 09:32

Matrix: Water

Date Received: 10/19/22 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		2.5			415803	10/21/22 21:37	SNL	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		25			415803	10/21/22 21:52	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416793	10/28/22 19:28	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		2			416939	11/01/22 15:54	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416095	10/25/22 07:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416171	10/25/22 14:25	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	415936	10/22/22 15:01	SNR	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-4D

Lab Sample ID: 180-146490-8

Date Collected: 10/18/22 13:23

Matrix: Water

Date Received: 10/19/22 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		2.5			415803	10/21/22 22:07	SNL	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		25			415803	10/21/22 22:21	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416793	10/28/22 19:43	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		2			417094	11/02/22 09:46	RSK	EET PIT
Instrument ID: A										

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Lab Chronicle

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

Job ID: 180-146490-1

Client Sample ID: APMW-4D

Lab Sample ID: 180-146490-8

Date Collected: 10/18/22 13:23

Matrix: Water

Date Received: 10/19/22 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	7470A			25 mL	25 mL	416095	10/25/22 07:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416171	10/25/22 14:26	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	415936	10/22/22 15:01	SNR	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-3D

Lab Sample ID: 180-146490-9

Date Collected: 10/18/22 11:05

Matrix: Water

Date Received: 10/19/22 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			415803	10/21/22 22:36	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416793	10/28/22 19:57	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416939	11/01/22 16:22	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416095	10/25/22 07:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416171	10/25/22 14:27	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	415898	10/21/22 17:21	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-10

Lab Sample ID: 180-146490-10

Date Collected: 10/18/22 09:54

Matrix: Water

Date Received: 10/19/22 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		2.5			415803	10/21/22 22:51	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416793	10/28/22 20:01	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416939	11/01/22 16:33	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416095	10/25/22 07:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416171	10/25/22 14:28	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	415898	10/21/22 17:21	LWM	EET PIT
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-146490-1

Client Sample ID: APMW-10D

Lab Sample ID: 180-146490-11

Date Collected: 10/18/22 08:08

Matrix: Water

Date Received: 10/19/22 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			415803	10/22/22 01:04	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416793	10/28/22 20:04	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416939	11/01/22 16:37	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416095	10/25/22 07:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416171	10/25/22 14:29	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	415898	10/21/22 17:21	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-9

Lab Sample ID: 180-146490-12

Date Collected: 10/18/22 11:07

Matrix: Water

Date Received: 10/19/22 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			415803	10/21/22 23:06	SNL	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		10			415803	10/21/22 23:21	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416793	10/28/22 20:08	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		5			416939	11/01/22 16:40	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416095	10/25/22 07:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416171	10/25/22 14:33	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	15 mL	100 mL	415898	10/21/22 17:21	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-8

Lab Sample ID: 180-146490-13

Date Collected: 10/18/22 14:21

Matrix: Water

Date Received: 10/19/22 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			415803	10/22/22 00:05	SNL	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		10			415803	10/22/22 00:20	SNL	EET PIT
Instrument ID: CHIC2100A										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-146490-1

Client Sample ID: APMW-8
Date Collected: 10/18/22 14:21
Date Received: 10/19/22 09:15

Lab Sample ID: 180-146490-13
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			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416793	10/28/22 20:22	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		10			416939	11/01/22 16:44	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416095	10/25/22 07:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416171	10/25/22 14:34	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	15 mL	100 mL	415898	10/21/22 17:21	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-02
Date Collected: 10/18/22 08:54
Date Received: 10/19/22 09:15

Lab Sample ID: 180-146490-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2.5			415803	10/22/22 01:48	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416793	10/28/22 20:37	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416939	11/01/22 16:48	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416095	10/25/22 07:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416171	10/25/22 14:36	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	415898	10/21/22 17:21	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-01
Date Collected: 10/18/22 10:53
Date Received: 10/19/22 09:15

Lab Sample ID: 180-146490-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			415803	10/22/22 02:03	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416793	10/28/22 20:48	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416939	11/01/22 16:51	RSK	EET PIT
Instrument ID: A										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-146490-1

Client Sample ID: EB-01

Lab Sample ID: 180-146490-15

Date Collected: 10/18/22 10:53

Matrix: Water

Date Received: 10/19/22 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	7470A			25 mL	25 mL	416095	10/25/22 07:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416171	10/25/22 14:37	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	415898	10/21/22 17:21	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-01

Lab Sample ID: 180-146490-16

Date Collected: 10/18/22 09:06

Matrix: Water

Date Received: 10/19/22 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			415803	10/22/22 02:18	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416793	10/28/22 20:51	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416155	10/25/22 14:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416939	11/01/22 16:55	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416095	10/25/22 07:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416171	10/25/22 14:38	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	415898	10/21/22 17:21	LWM	EET PIT
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: EET PIT

Batch Type: Prep

HCY = Harrison Yaeger

RJR = Ron Rosenbaum

Batch Type: Analysis

LWM = Leslie McIntire

RJR = Ron Rosenbaum

RSK = Robert Kurtz

SNL = Sean Lordo

SNR = Sabra Richart

Client Sample Results

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

Job ID: 180-146490-1

Client Sample ID: APMW-11

Lab Sample ID: 180-146490-1

Date Collected: 10/17/22 08:40

Matrix: Water

Date Received: 10/19/22 09:15

Method: MCAWW 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			10/21/22 18:40	1
Fluoride	<0.026		0.20	0.026	mg/L			10/21/22 18:40	1
Sulfate	<0.76		1.0	0.76	mg/L			10/21/22 18:40	1

Method: SW846 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		10/25/22 14:25	10/28/22 18:38	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		10/25/22 14:25	10/28/22 18:38	1
Barium	0.037		0.010	0.0031	mg/L		10/25/22 14:25	10/28/22 18:38	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/25/22 14:25	10/28/22 18:38	1
Boron	<0.060		0.080	0.060	mg/L		10/25/22 14:25	10/28/22 18:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/25/22 14:25	10/28/22 18:38	1
Calcium	9.5		0.50	0.13	mg/L		10/25/22 14:25	10/28/22 18:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/25/22 14:25	10/28/22 18:38	1
Cobalt	0.00055 J		0.0025	0.00026	mg/L		10/25/22 14:25	10/28/22 18:38	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/25/22 14:25	10/28/22 18:38	1
Lithium	0.010		0.0050	0.00083	mg/L		10/25/22 14:25	10/28/22 18:38	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/25/22 14:25	10/28/22 18:38	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/25/22 14:25	10/28/22 18:38	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/25/22 14:25	10/28/22 18:38	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/25/22 07:27	10/25/22 14:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	86		10	10	mg/L			10/22/22 15:01	1

Client Sample Results

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

Job ID: 180-146490-1

Client Sample ID: DUP-01

Lab Sample ID: 180-146490-2

Date Collected: 10/17/22 09:40

Matrix: Water

Date Received: 10/19/22 09:15

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.3		1.0	0.71	mg/L			10/21/22 18:54	1
Fluoride	<0.026		0.20	0.026	mg/L			10/21/22 18:54	1
Sulfate	<0.76		1.0	0.76	mg/L			10/21/22 18:54	1

Method: SW846 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		10/25/22 14:25	10/28/22 18:41	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		10/25/22 14:25	10/28/22 18:41	1
Barium	0.035		0.010	0.0031	mg/L		10/25/22 14:25	10/28/22 18:41	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/25/22 14:25	10/28/22 18:41	1
Boron	<0.060		0.080	0.060	mg/L		10/25/22 14:25	10/28/22 18:41	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/25/22 14:25	10/28/22 18:41	1
Calcium	9.2		0.50	0.13	mg/L		10/25/22 14:25	10/28/22 18:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/25/22 14:25	10/28/22 18:41	1
Cobalt	0.00051 J		0.0025	0.00026	mg/L		10/25/22 14:25	10/28/22 18:41	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/25/22 14:25	10/28/22 18:41	1
Lithium	0.0093		0.0050	0.00083	mg/L		10/25/22 14:25	10/28/22 18:41	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/25/22 14:25	10/28/22 18:41	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/25/22 14:25	10/28/22 18:41	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/25/22 14:25	10/28/22 18:41	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/25/22 07:27	10/25/22 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	91		10	10	mg/L			10/21/22 18:23	1

Client Sample Results

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

Job ID: 180-146490-1

Client Sample ID: APMW-12

Lab Sample ID: 180-146490-3

Date Collected: 10/17/22 11:51

Matrix: Water

Date Received: 10/19/22 09:15

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		1.0	0.71	mg/L			10/21/22 19:09	1
Fluoride	<0.026		0.20	0.026	mg/L			10/21/22 19:09	1
Sulfate	<0.76		1.0	0.76	mg/L			10/21/22 19:09	1

Method: SW846 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		10/25/22 14:25	10/28/22 18:45	1
Arsenic	0.00034	J	0.0010	0.00028	mg/L		10/25/22 14:25	10/28/22 18:45	1
Barium	0.057		0.010	0.0031	mg/L		10/25/22 14:25	10/28/22 18:45	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/25/22 14:25	10/28/22 18:45	1
Boron	<0.060		0.080	0.060	mg/L		10/25/22 14:25	10/28/22 18:45	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/25/22 14:25	10/28/22 18:45	1
Calcium	10		0.50	0.13	mg/L		10/25/22 14:25	10/28/22 18:45	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/25/22 14:25	10/28/22 18:45	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/25/22 14:25	10/28/22 18:45	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/25/22 14:25	10/28/22 18:45	1
Lithium	0.017		0.0050	0.00083	mg/L		10/25/22 14:25	10/28/22 18:45	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/25/22 14:25	10/28/22 18:45	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/25/22 14:25	10/28/22 18:45	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/25/22 14:25	10/28/22 18:45	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/25/22 07:27	10/25/22 14:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	120		10	10	mg/L			10/21/22 18:23	1

Client Sample Results

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

Job ID: 180-146490-1

Client Sample ID: APMW-1R

Lab Sample ID: 180-146490-4

Date Collected: 10/17/22 13:30

Matrix: Water

Date Received: 10/19/22 09:15

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2400		10	7.1	mg/L			10/21/22 20:08	10
Fluoride	<0.026		0.20	0.026	mg/L			10/21/22 19:54	1
Sulfate	1.2		1.0	0.76	mg/L			10/21/22 19:54	1

Method: SW846 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		10/25/22 14:25	10/28/22 18:48	1
Arsenic	0.00031	J	0.0010	0.00028	mg/L		10/25/22 14:25	10/28/22 18:48	1
Barium	1.7		0.010	0.0031	mg/L		10/25/22 14:25	10/28/22 18:48	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/25/22 14:25	10/28/22 18:48	1
Boron	1.3		0.080	0.060	mg/L		10/25/22 14:25	11/01/22 15:46	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/25/22 14:25	10/28/22 18:48	1
Calcium	200		0.50	0.13	mg/L		10/25/22 14:25	10/28/22 18:48	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/25/22 14:25	10/28/22 18:48	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/25/22 14:25	10/28/22 18:48	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/25/22 14:25	10/28/22 18:48	1
Lithium	0.016		0.0050	0.00083	mg/L		10/25/22 14:25	10/28/22 18:48	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/25/22 14:25	10/28/22 18:48	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/25/22 14:25	10/28/22 18:48	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/25/22 14:25	10/28/22 18:48	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/25/22 07:27	10/25/22 14:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	4900		50	50	mg/L			10/22/22 15:01	1

Client Sample Results

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

Job ID: 180-146490-1

Client Sample ID: APMW-2

Lab Sample ID: 180-146490-5

Date Collected: 10/17/22 14:30

Matrix: Water

Date Received: 10/19/22 09:15

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2500		5.0	3.6	mg/L			10/21/22 21:07	5
Fluoride	<0.026		0.20	0.026	mg/L			10/21/22 20:23	1
Sulfate	5.6		1.0	0.76	mg/L			10/21/22 20:23	1

Method: SW846 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		10/25/22 14:25	10/28/22 19:03	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		10/25/22 14:25	10/28/22 19:03	1
Barium	3.4		0.010	0.0031	mg/L		10/25/22 14:25	10/28/22 19:03	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/25/22 14:25	10/28/22 19:03	1
Boron	3.1		0.080	0.060	mg/L		10/25/22 14:25	10/28/22 19:03	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/25/22 14:25	10/28/22 19:03	1
Calcium	360		0.50	0.13	mg/L		10/25/22 14:25	10/28/22 19:03	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/25/22 14:25	10/28/22 19:03	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/25/22 14:25	10/28/22 19:03	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/25/22 14:25	10/28/22 19:03	1
Lithium	0.032		0.0050	0.00083	mg/L		10/25/22 14:25	10/28/22 19:03	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/25/22 14:25	10/28/22 19:03	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/25/22 14:25	10/28/22 19:03	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/25/22 14:25	10/28/22 19:03	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/25/22 07:27	10/25/22 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	6600		50	50	mg/L			10/21/22 18:23	1

Client Sample Results

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

Job ID: 180-146490-1

Client Sample ID: APMW-2D

Lab Sample ID: 180-146490-6

Date Collected: 10/18/22 07:58

Matrix: Water

Date Received: 10/19/22 09:15

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.4		1.0	0.71	mg/L			10/21/22 21:22	1
Fluoride	0.14	J	0.20	0.026	mg/L			10/21/22 21:22	1
Sulfate	3.0		1.0	0.76	mg/L			10/21/22 21:22	1

Method: SW846 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		10/25/22 14:25	10/28/22 19:25	1
Arsenic	0.0028		0.0010	0.00028	mg/L		10/25/22 14:25	10/28/22 19:25	1
Barium	0.067		0.010	0.0031	mg/L		10/25/22 14:25	10/28/22 19:25	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		10/25/22 14:25	10/28/22 19:25	1
Boron	0.16		0.080	0.060	mg/L		10/25/22 14:25	11/01/22 15:50	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/25/22 14:25	10/28/22 19:25	1
Calcium	2.6		0.50	0.13	mg/L		10/25/22 14:25	10/28/22 19:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/25/22 14:25	10/28/22 19:25	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/25/22 14:25	10/28/22 19:25	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/25/22 14:25	10/28/22 19:25	1
Lithium	0.011		0.0050	0.00083	mg/L		10/25/22 14:25	10/28/22 19:25	1
Molybdenum	0.0016	J	0.015	0.00061	mg/L		10/25/22 14:25	10/28/22 19:25	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/25/22 14:25	10/28/22 19:25	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/25/22 14:25	10/28/22 19:25	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/25/22 07:27	10/25/22 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	150		10	10	mg/L			10/21/22 18:23	1

Client Sample Results

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

Job ID: 180-146490-1

Client Sample ID: APMW-3

Lab Sample ID: 180-146490-7

Date Collected: 10/18/22 09:32

Matrix: Water

Date Received: 10/19/22 09:15

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8500		25	18	mg/L			10/21/22 21:52	25
Fluoride	0.32	J	0.50	0.065	mg/L			10/21/22 21:37	2.5
Sulfate	850		2.5	1.9	mg/L			10/21/22 21:37	2.5

Method: SW846 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		10/25/22 14:25	10/28/22 19:28	1
Arsenic	0.061		0.0010	0.00028	mg/L		10/25/22 14:25	10/28/22 19:28	1
Barium	0.096		0.010	0.0031	mg/L		10/25/22 14:25	10/28/22 19:28	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		10/25/22 14:25	10/28/22 19:28	1
Boron	5.6		0.16	0.12	mg/L		10/25/22 14:25	11/01/22 15:54	2
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/25/22 14:25	10/28/22 19:28	1
Calcium	310		0.50	0.13	mg/L		10/25/22 14:25	10/28/22 19:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/25/22 14:25	10/28/22 19:28	1
Cobalt	0.0030		0.0025	0.00026	mg/L		10/25/22 14:25	10/28/22 19:28	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/25/22 14:25	10/28/22 19:28	1
Lithium	0.056		0.0050	0.00083	mg/L		10/25/22 14:25	10/28/22 19:28	1
Molybdenum	0.050		0.015	0.00061	mg/L		10/25/22 14:25	10/28/22 19:28	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/25/22 14:25	10/28/22 19:28	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/25/22 14:25	10/28/22 19:28	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/25/22 07:27	10/25/22 14:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	14000		200	200	mg/L			10/22/22 15:01	1

Client Sample Results

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

Job ID: 180-146490-1

Client Sample ID: APMW-4D

Lab Sample ID: 180-146490-8

Date Collected: 10/18/22 13:23

Matrix: Water

Date Received: 10/19/22 09:15

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8400		25	18	mg/L			10/21/22 22:21	25
Fluoride	0.15	J	0.50	0.065	mg/L			10/21/22 22:07	2.5
Sulfate	700		2.5	1.9	mg/L			10/21/22 22:07	2.5

Method: SW846 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		10/25/22 14:25	10/28/22 19:43	1
Arsenic	0.0028		0.0010	0.00028	mg/L		10/25/22 14:25	10/28/22 19:43	1
Barium	0.088		0.010	0.0031	mg/L		10/25/22 14:25	10/28/22 19:43	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		10/25/22 14:25	10/28/22 19:43	1
Boron	3.4		0.16	0.12	mg/L		10/25/22 14:25	11/02/22 09:46	2
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/25/22 14:25	10/28/22 19:43	1
Calcium	260		0.50	0.13	mg/L		10/25/22 14:25	10/28/22 19:43	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/25/22 14:25	10/28/22 19:43	1
Cobalt	0.0056		0.0025	0.00026	mg/L		10/25/22 14:25	10/28/22 19:43	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/25/22 14:25	10/28/22 19:43	1
Lithium	0.068		0.0050	0.00083	mg/L		10/25/22 14:25	10/28/22 19:43	1
Molybdenum	0.18		0.015	0.00061	mg/L		10/25/22 14:25	10/28/22 19:43	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/25/22 14:25	10/28/22 19:43	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/25/22 14:25	10/28/22 19:43	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/25/22 07:27	10/25/22 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	15000		200	200	mg/L			10/22/22 15:01	1

Client Sample Results

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

Job ID: 180-146490-1

Client Sample ID: APMW-3D

Lab Sample ID: 180-146490-9

Date Collected: 10/18/22 11:05

Matrix: Water

Date Received: 10/19/22 09:15

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23		1.0	0.71	mg/L			10/21/22 22:36	1
Fluoride	0.12	J	0.20	0.026	mg/L			10/21/22 22:36	1
Sulfate	5.3		1.0	0.76	mg/L			10/21/22 22:36	1

Method: SW846 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		10/25/22 14:25	10/28/22 19:57	1
Arsenic	0.0037		0.0010	0.00028	mg/L		10/25/22 14:25	10/28/22 19:57	1
Barium	0.19		0.010	0.0031	mg/L		10/25/22 14:25	10/28/22 19:57	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		10/25/22 14:25	10/28/22 19:57	1
Boron	0.11		0.080	0.060	mg/L		10/25/22 14:25	11/01/22 16:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/25/22 14:25	10/28/22 19:57	1
Calcium	13		0.50	0.13	mg/L		10/25/22 14:25	10/28/22 19:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/25/22 14:25	10/28/22 19:57	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/25/22 14:25	10/28/22 19:57	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/25/22 14:25	10/28/22 19:57	1
Lithium	0.016		0.0050	0.00083	mg/L		10/25/22 14:25	10/28/22 19:57	1
Molybdenum	0.00072	J	0.015	0.00061	mg/L		10/25/22 14:25	10/28/22 19:57	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/25/22 14:25	10/28/22 19:57	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/25/22 14:25	10/28/22 19:57	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/25/22 07:27	10/25/22 14:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	170		10	10	mg/L			10/21/22 17:21	1

Client Sample Results

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

Job ID: 180-146490-1

Client Sample ID: APMW-10

Lab Sample ID: 180-146490-10

Date Collected: 10/18/22 09:54

Matrix: Water

Date Received: 10/19/22 09:15

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	680		2.5	1.8	mg/L			10/21/22 22:51	2.5
Fluoride	0.68		0.50	0.065	mg/L			10/21/22 22:51	2.5
Sulfate	<1.9		2.5	1.9	mg/L			10/21/22 22:51	2.5

Method: SW846 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		10/25/22 14:25	10/28/22 20:01	1
Arsenic	0.037		0.0010	0.00028	mg/L		10/25/22 14:25	10/28/22 20:01	1
Barium	0.37		0.010	0.0031	mg/L		10/25/22 14:25	10/28/22 20:01	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		10/25/22 14:25	10/28/22 20:01	1
Boron	2.4		0.080	0.060	mg/L		10/25/22 14:25	11/01/22 16:33	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/25/22 14:25	10/28/22 20:01	1
Calcium	46		0.50	0.13	mg/L		10/25/22 14:25	10/28/22 20:01	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/25/22 14:25	10/28/22 20:01	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/25/22 14:25	10/28/22 20:01	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/25/22 14:25	10/28/22 20:01	1
Lithium	0.010		0.0050	0.00083	mg/L		10/25/22 14:25	10/28/22 20:01	1
Molybdenum	0.030		0.015	0.00061	mg/L		10/25/22 14:25	10/28/22 20:01	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/25/22 14:25	10/28/22 20:01	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/25/22 14:25	10/28/22 20:01	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/25/22 07:27	10/25/22 14:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1900		20	20	mg/L			10/21/22 17:21	1

Client Sample Results

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

Job ID: 180-146490-1

Client Sample ID: APMW-10D

Lab Sample ID: 180-146490-11

Date Collected: 10/18/22 08:08

Matrix: Water

Date Received: 10/19/22 09:15

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.3		1.0	0.71	mg/L			10/22/22 01:04	1
Fluoride	0.18	J	0.20	0.026	mg/L			10/22/22 01:04	1
Sulfate	3.7		1.0	0.76	mg/L			10/22/22 01:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00053	J	0.0020	0.00051	mg/L		10/25/22 14:25	10/28/22 20:04	1
Arsenic	0.0054		0.0010	0.00028	mg/L		10/25/22 14:25	10/28/22 20:04	1
Barium	0.027		0.010	0.0031	mg/L		10/25/22 14:25	10/28/22 20:04	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		10/25/22 14:25	10/28/22 20:04	1
Boron	0.21		0.080	0.060	mg/L		10/25/22 14:25	11/01/22 16:37	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/25/22 14:25	10/28/22 20:04	1
Calcium	2.7		0.50	0.13	mg/L		10/25/22 14:25	10/28/22 20:04	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/25/22 14:25	10/28/22 20:04	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/25/22 14:25	10/28/22 20:04	1
Lead	0.00045	J	0.0010	0.00017	mg/L		10/25/22 14:25	10/28/22 20:04	1
Lithium	0.012		0.0050	0.00083	mg/L		10/25/22 14:25	10/28/22 20:04	1
Molybdenum	0.0033	J	0.015	0.00061	mg/L		10/25/22 14:25	10/28/22 20:04	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/25/22 14:25	10/28/22 20:04	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/25/22 14:25	10/28/22 20:04	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/25/22 07:27	10/25/22 14:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	130		10	10	mg/L			10/21/22 17:21	1

Client Sample Results

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

Job ID: 180-146490-1

Client Sample ID: APMW-9

Lab Sample ID: 180-146490-12

Date Collected: 10/18/22 11:07

Matrix: Water

Date Received: 10/19/22 09:15

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2900		10	7.1	mg/L			10/21/22 23:21	10
Fluoride	<0.026		0.20	0.026	mg/L			10/21/22 23:06	1
Sulfate	280		1.0	0.76	mg/L			10/21/22 23:06	1

Method: SW846 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		10/25/22 14:25	10/28/22 20:08	1
Arsenic	0.0014		0.0010	0.00028	mg/L		10/25/22 14:25	10/28/22 20:08	1
Barium	0.50		0.010	0.0031	mg/L		10/25/22 14:25	10/28/22 20:08	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		10/25/22 14:25	10/28/22 20:08	1
Boron	7.1		0.40	0.30	mg/L		10/25/22 14:25	11/01/22 16:40	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/25/22 14:25	10/28/22 20:08	1
Calcium	330		0.50	0.13	mg/L		10/25/22 14:25	10/28/22 20:08	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/25/22 14:25	10/28/22 20:08	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/25/22 14:25	10/28/22 20:08	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/25/22 14:25	10/28/22 20:08	1
Lithium	0.0046	J	0.0050	0.00083	mg/L		10/25/22 14:25	10/28/22 20:08	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/25/22 14:25	10/28/22 20:08	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/25/22 14:25	10/28/22 20:08	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/25/22 14:25	10/28/22 20:08	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/25/22 07:27	10/25/22 14:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	5900		67	67	mg/L			10/21/22 17:21	1

Client Sample Results

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

Job ID: 180-146490-1

Client Sample ID: APMW-8

Lab Sample ID: 180-146490-13

Date Collected: 10/18/22 14:21

Matrix: Water

Date Received: 10/19/22 09:15

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3300		10	7.1	mg/L			10/22/22 00:20	10
Fluoride	0.73		0.20	0.026	mg/L			10/22/22 00:05	1
Sulfate	560		1.0	0.76	mg/L			10/22/22 00:05	1

Method: SW846 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		10/25/22 14:25	10/28/22 20:22	1
Arsenic	0.020		0.0010	0.00028	mg/L		10/25/22 14:25	10/28/22 20:22	1
Barium	0.24		0.010	0.0031	mg/L		10/25/22 14:25	10/28/22 20:22	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		10/25/22 14:25	10/28/22 20:22	1
Boron	23		0.80	0.60	mg/L		10/25/22 14:25	11/01/22 16:44	10
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/25/22 14:25	10/28/22 20:22	1
Calcium	520		0.50	0.13	mg/L		10/25/22 14:25	10/28/22 20:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/25/22 14:25	10/28/22 20:22	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/25/22 14:25	10/28/22 20:22	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/25/22 14:25	10/28/22 20:22	1
Lithium	0.070		0.0050	0.00083	mg/L		10/25/22 14:25	10/28/22 20:22	1
Molybdenum	0.039		0.015	0.00061	mg/L		10/25/22 14:25	10/28/22 20:22	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/25/22 14:25	10/28/22 20:22	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/25/22 14:25	10/28/22 20:22	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/25/22 07:27	10/25/22 14:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	7000		67	67	mg/L			10/21/22 17:21	1

Client Sample Results

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

Job ID: 180-146490-1

Client Sample ID: DUP-02

Lab Sample ID: 180-146490-14

Date Collected: 10/18/22 08:54

Matrix: Water

Date Received: 10/19/22 09:15

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	660		2.5	1.8	mg/L			10/22/22 01:48	2.5
Fluoride	0.64		0.50	0.065	mg/L			10/22/22 01:48	2.5
Sulfate	<1.9		2.5	1.9	mg/L			10/22/22 01:48	2.5

Method: SW846 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		10/25/22 14:25	10/28/22 20:37	1
Arsenic	0.037		0.0010	0.00028	mg/L		10/25/22 14:25	10/28/22 20:37	1
Barium	0.37		0.010	0.0031	mg/L		10/25/22 14:25	10/28/22 20:37	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		10/25/22 14:25	10/28/22 20:37	1
Boron	2.4		0.080	0.060	mg/L		10/25/22 14:25	11/01/22 16:48	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/25/22 14:25	10/28/22 20:37	1
Calcium	45		0.50	0.13	mg/L		10/25/22 14:25	10/28/22 20:37	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/25/22 14:25	10/28/22 20:37	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/25/22 14:25	10/28/22 20:37	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/25/22 14:25	10/28/22 20:37	1
Lithium	0.010		0.0050	0.00083	mg/L		10/25/22 14:25	10/28/22 20:37	1
Molybdenum	0.030		0.015	0.00061	mg/L		10/25/22 14:25	10/28/22 20:37	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/25/22 14:25	10/28/22 20:37	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/25/22 14:25	10/28/22 20:37	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/25/22 07:27	10/25/22 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1800		20	20	mg/L			10/21/22 17:21	1

Client Sample Results

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

Job ID: 180-146490-1

Client Sample ID: EB-01

Lab Sample ID: 180-146490-15

Date Collected: 10/18/22 10:53

Matrix: Water

Date Received: 10/19/22 09:15

Method: MCAWW 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			10/22/22 02:03	1
Fluoride	<0.026		0.20	0.026	mg/L			10/22/22 02:03	1
Sulfate	<0.76		1.0	0.76	mg/L			10/22/22 02:03	1

Method: SW846 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		10/25/22 14:25	10/28/22 20:48	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		10/25/22 14:25	10/28/22 20:48	1
Barium	<0.0031		0.010	0.0031	mg/L		10/25/22 14:25	10/28/22 20:48	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		10/25/22 14:25	10/28/22 20:48	1
Boron	0.16		0.080	0.060	mg/L		10/25/22 14:25	11/01/22 16:51	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/25/22 14:25	10/28/22 20:48	1
Calcium	<0.13		0.50	0.13	mg/L		10/25/22 14:25	10/28/22 20:48	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/25/22 14:25	10/28/22 20:48	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/25/22 14:25	10/28/22 20:48	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/25/22 14:25	10/28/22 20:48	1
Lithium	<0.00083		0.0050	0.00083	mg/L		10/25/22 14:25	10/28/22 20:48	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/25/22 14:25	10/28/22 20:48	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/25/22 14:25	10/28/22 20:48	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/25/22 14:25	10/28/22 20:48	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/25/22 07:27	10/25/22 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			10/21/22 17:21	1

Client Sample Results

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

Job ID: 180-146490-1

Client Sample ID: FB-01

Lab Sample ID: 180-146490-16

Date Collected: 10/18/22 09:06

Matrix: Water

Date Received: 10/19/22 09:15

Method: MCAWW 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			10/22/22 02:18	1
Fluoride	<0.026		0.20	0.026	mg/L			10/22/22 02:18	1
Sulfate	<0.76		1.0	0.76	mg/L			10/22/22 02:18	1

Method: SW846 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		10/25/22 14:25	10/28/22 20:51	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		10/25/22 14:25	10/28/22 20:51	1
Barium	<0.0031		0.010	0.0031	mg/L		10/25/22 14:25	10/28/22 20:51	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		10/25/22 14:25	10/28/22 20:51	1
Boron	0.084		0.080	0.060	mg/L		10/25/22 14:25	11/01/22 16:55	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/25/22 14:25	10/28/22 20:51	1
Calcium	0.15	J	0.50	0.13	mg/L		10/25/22 14:25	10/28/22 20:51	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/25/22 14:25	10/28/22 20:51	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/25/22 14:25	10/28/22 20:51	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/25/22 14:25	10/28/22 20:51	1
Lithium	<0.00083		0.0050	0.00083	mg/L		10/25/22 14:25	10/28/22 20:51	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/25/22 14:25	10/28/22 20:51	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/25/22 14:25	10/28/22 20:51	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/25/22 14:25	10/28/22 20:51	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/25/22 07:27	10/25/22 14:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			10/21/22 17:21	1

QC Sample Results

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

Job ID: 180-146490-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-415803/44
Matrix: Water
Analysis Batch: 415803

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			10/22/22 00:34	1
Fluoride	<0.026		0.20	0.026	mg/L			10/22/22 00:34	1
Sulfate	<0.76		1.0	0.76	mg/L			10/22/22 00:34	1

Lab Sample ID: MB 180-415803/6
Matrix: Water
Analysis Batch: 415803

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			10/21/22 14:16	1
Fluoride	<0.026		0.20	0.026	mg/L			10/21/22 14:16	1
Sulfate	<0.76		1.0	0.76	mg/L			10/21/22 14:16	1

Lab Sample ID: LCS 180-415803/45
Matrix: Water
Analysis Batch: 415803

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	48.7		mg/L		97	90 - 110
Fluoride	2.50	2.41		mg/L		96	90 - 110
Sulfate	50.0	45.9		mg/L		92	90 - 110

Lab Sample ID: LCS 180-415803/7
Matrix: Water
Analysis Batch: 415803

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
Fluoride	2.50	2.52		mg/L		101	90 - 110
Sulfate	50.0	48.8		mg/L		98	90 - 110

Lab Sample ID: 180-146490-3 MS
Matrix: Water
Analysis Batch: 415803

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
Chloride	13		50.0	58.9		mg/L		93	90 - 110
Fluoride	<0.026		2.50	2.52		mg/L		101	90 - 110
Sulfate	<0.76		50.0	48.3		mg/L		97	90 - 110

Lab Sample ID: 180-146490-3 MSD
Matrix: Water
Analysis Batch: 415803

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
Chloride	13		50.0	60.9		mg/L		97	90 - 110	3	20
Fluoride	<0.026		2.50	2.61		mg/L		104	90 - 110	3	20
Sulfate	<0.76		50.0	50.0		mg/L		100	90 - 110	3	20

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QC Sample Results

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

Job ID: 180-146490-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-146490-11 MS
Matrix: Water
Analysis Batch: 415803

Client Sample ID: APMW-10D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	4.3		50.0	52.0		mg/L		95	90 - 110
Fluoride	0.18	J	2.50	2.68		mg/L		100	90 - 110
Sulfate	3.7		50.0	50.8		mg/L		94	90 - 110

Lab Sample ID: 180-146490-11 MSD
Matrix: Water
Analysis Batch: 415803

Client Sample ID: APMW-10D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4.3		50.0	53.6		mg/L		99	90 - 110	3	20
Fluoride	0.18	J	2.50	2.86		mg/L		107	90 - 110	6	20
Sulfate	3.7		50.0	52.6		mg/L		98	90 - 110	3	20

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

Lab Sample ID: MB 180-416155/1-A
Matrix: Water
Analysis Batch: 416793

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 416155

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		10/25/22 14:25	10/28/22 18:12	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		10/25/22 14:25	10/28/22 18:12	1
Barium	<0.0031		0.010	0.0031	mg/L		10/25/22 14:25	10/28/22 18:12	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/25/22 14:25	10/28/22 18:12	1
Boron	<0.060		0.080	0.060	mg/L		10/25/22 14:25	10/28/22 18:12	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/25/22 14:25	10/28/22 18:12	1
Calcium	<0.13		0.50	0.13	mg/L		10/25/22 14:25	10/28/22 18:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/25/22 14:25	10/28/22 18:12	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/25/22 14:25	10/28/22 18:12	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/25/22 14:25	10/28/22 18:12	1
Lithium	<0.00083		0.0050	0.00083	mg/L		10/25/22 14:25	10/28/22 18:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/25/22 14:25	10/28/22 18:12	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/25/22 14:25	10/28/22 18:12	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/25/22 14:25	10/28/22 18:12	1

Lab Sample ID: LCS 180-416155/2-A
Matrix: Water
Analysis Batch: 416793

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 416155

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.261		mg/L		104	80 - 120
Arsenic	1.00	0.931		mg/L		93	80 - 120
Barium	1.00	0.946		mg/L		95	80 - 120
Beryllium	0.500	0.525		mg/L		105	80 - 120
Boron	1.25	1.14		mg/L		91	80 - 120
Cadmium	0.500	0.497		mg/L		99	80 - 120
Calcium	25.0	24.7		mg/L		99	80 - 120
Chromium	0.500	0.495		mg/L		99	80 - 120
Cobalt	0.500	0.469		mg/L		94	80 - 120

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QC Sample Results

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

Job ID: 180-146490-1

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

Lab Sample ID: LCS 180-416155/2-A
Matrix: Water
Analysis Batch: 416793

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 416155

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.500	0.493		mg/L		99	80 - 120
Lithium	0.500	0.453		mg/L		91	80 - 120
Molybdenum	0.500	0.510		mg/L		102	80 - 120
Selenium	1.00	0.929		mg/L		93	80 - 120
Thallium	1.00	1.01		mg/L		101	80 - 120

Lab Sample ID: 180-146490-16 MS
Matrix: Water
Analysis Batch: 416793

Client Sample ID: FB-01
Prep Type: Total Recoverable
Prep Batch: 416155

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00051		0.250	0.266		mg/L		107	75 - 125
Arsenic	<0.00028		1.00	0.953		mg/L		95	75 - 125
Barium	<0.0031		1.00	0.965		mg/L		96	75 - 125
Cadmium	<0.00022		0.500	0.496		mg/L		99	75 - 125
Calcium	0.15	J	25.0	25.9		mg/L		103	75 - 125
Chromium	<0.0015		0.500	0.485		mg/L		97	75 - 125
Cobalt	<0.00026		0.500	0.472		mg/L		94	75 - 125
Lead	<0.00017		0.500	0.492		mg/L		98	75 - 125
Lithium	<0.00083		0.500	0.479		mg/L		96	75 - 125
Molybdenum	<0.00061		0.500	0.493		mg/L		99	75 - 125
Selenium	<0.00074		1.00	0.943		mg/L		94	75 - 125
Thallium	<0.00047		1.00	1.02		mg/L		102	75 - 125

Lab Sample ID: 180-146490-16 MS
Matrix: Water
Analysis Batch: 416939

Client Sample ID: FB-01
Prep Type: Total Recoverable
Prep Batch: 416155

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.084		1.25	1.32		mg/L		99	75 - 125

Lab Sample ID: 180-146490-16 MSD
Matrix: Water
Analysis Batch: 416793

Client Sample ID: FB-01
Prep Type: Total Recoverable
Prep Batch: 416155

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00051		0.250	0.252		mg/L		101	75 - 125	6	20
Arsenic	<0.00028		1.00	0.910		mg/L		91	75 - 125	5	20
Barium	<0.0031		1.00	0.910		mg/L		91	75 - 125	6	20
Cadmium	<0.00022		0.500	0.467		mg/L		93	75 - 125	6	20
Calcium	0.15	J	25.0	24.7		mg/L		98	75 - 125	5	20
Chromium	<0.0015		0.500	0.461		mg/L		92	75 - 125	5	20
Cobalt	<0.00026		0.500	0.450		mg/L		90	75 - 125	5	20
Lead	<0.00017		0.500	0.472		mg/L		94	75 - 125	4	20
Lithium	<0.00083		0.500	0.459		mg/L		92	75 - 125	4	20
Molybdenum	<0.00061		0.500	0.466		mg/L		93	75 - 125	6	20
Selenium	<0.00074		1.00	0.901		mg/L		90	75 - 125	5	20
Thallium	<0.00047		1.00	0.972		mg/L		97	75 - 125	5	20

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QC Sample Results

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

Job ID: 180-146490-1

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

Lab Sample ID: 180-146490-16 MSD
Matrix: Water
Analysis Batch: 416939

Client Sample ID: FB-01
Prep Type: Total Recoverable
Prep Batch: 416155

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.084		1.25	1.24		mg/L		92	75 - 125	7	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-416095/1-A
Matrix: Water
Analysis Batch: 416171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 416095

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/25/22 07:27	10/25/22 14:11	1

Lab Sample ID: LCS 180-416095/2-A
Matrix: Water
Analysis Batch: 416171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 416095

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00260		mg/L		104	80 - 120

Lab Sample ID: 180-146490-1 MS
Matrix: Water
Analysis Batch: 416171

Client Sample ID: APMW-11
Prep Type: Total/NA
Prep Batch: 416095

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00013		0.00100	0.000987		mg/L		99	75 - 125

Lab Sample ID: 180-146490-1 MSD
Matrix: Water
Analysis Batch: 416171

Client Sample ID: APMW-11
Prep Type: Total/NA
Prep Batch: 416095

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00013		0.00100	0.000954		mg/L		95	75 - 125	3	20

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

Lab Sample ID: MB 180-415898/1
Matrix: Water
Analysis Batch: 415898

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			10/21/22 17:21	1

Lab Sample ID: LCS 180-415898/2
Matrix: Water
Analysis Batch: 415898

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	388	398		mg/L		103	85 - 115

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QC Sample Results

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

Job ID: 180-146490-1

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

Lab Sample ID: 180-146490-9 DU
Matrix: Water
Analysis Batch: 415898

Client Sample ID: APMW-3D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	170		167		mg/L		0.6	10

Lab Sample ID: MB 180-415902/1
Matrix: Water
Analysis Batch: 415902

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			10/21/22 18:23	1

Lab Sample ID: LCS 180-415902/2
Matrix: Water
Analysis Batch: 415902

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	388	370		mg/L		95	85 - 115

Lab Sample ID: MB 180-415936/1
Matrix: Water
Analysis Batch: 415936

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			10/22/22 15:01	1

Lab Sample ID: LCS 180-415936/2
Matrix: Water
Analysis Batch: 415936

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	388	354		mg/L		91	85 - 115

QC Association Summary

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

Job ID: 180-146490-1

HPLC/IC

Analysis Batch: 415803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146490-1	APMW-11	Total/NA	Water	300.0	
180-146490-2	DUP-01	Total/NA	Water	300.0	
180-146490-3	APMW-12	Total/NA	Water	300.0	
180-146490-4	APMW-1R	Total/NA	Water	300.0	
180-146490-4	APMW-1R	Total/NA	Water	300.0	
180-146490-5	APMW-2	Total/NA	Water	300.0	
180-146490-5	APMW-2	Total/NA	Water	300.0	
180-146490-6	APMW-2D	Total/NA	Water	300.0	
180-146490-7	APMW-3	Total/NA	Water	300.0	
180-146490-7	APMW-3	Total/NA	Water	300.0	
180-146490-8	APMW-4D	Total/NA	Water	300.0	
180-146490-8	APMW-4D	Total/NA	Water	300.0	
180-146490-9	APMW-3D	Total/NA	Water	300.0	
180-146490-10	APMW-10	Total/NA	Water	300.0	
180-146490-11	APMW-10D	Total/NA	Water	300.0	
180-146490-12	APMW-9	Total/NA	Water	300.0	
180-146490-12	APMW-9	Total/NA	Water	300.0	
180-146490-13	APMW-8	Total/NA	Water	300.0	
180-146490-13	APMW-8	Total/NA	Water	300.0	
180-146490-14	DUP-02	Total/NA	Water	300.0	
180-146490-15	EB-01	Total/NA	Water	300.0	
180-146490-16	FB-01	Total/NA	Water	300.0	
MB 180-415803/44	Method Blank	Total/NA	Water	300.0	
MB 180-415803/6	Method Blank	Total/NA	Water	300.0	
LCS 180-415803/45	Lab Control Sample	Total/NA	Water	300.0	
LCS 180-415803/7	Lab Control Sample	Total/NA	Water	300.0	
180-146490-3 MS	APMW-12	Total/NA	Water	300.0	
180-146490-3 MSD	APMW-12	Total/NA	Water	300.0	
180-146490-11 MS	APMW-10D	Total/NA	Water	300.0	
180-146490-11 MSD	APMW-10D	Total/NA	Water	300.0	

Metals

Prep Batch: 416095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146490-1	APMW-11	Total/NA	Water	7470A	
180-146490-2	DUP-01	Total/NA	Water	7470A	
180-146490-3	APMW-12	Total/NA	Water	7470A	
180-146490-4	APMW-1R	Total/NA	Water	7470A	
180-146490-5	APMW-2	Total/NA	Water	7470A	
180-146490-6	APMW-2D	Total/NA	Water	7470A	
180-146490-7	APMW-3	Total/NA	Water	7470A	
180-146490-8	APMW-4D	Total/NA	Water	7470A	
180-146490-9	APMW-3D	Total/NA	Water	7470A	
180-146490-10	APMW-10	Total/NA	Water	7470A	
180-146490-11	APMW-10D	Total/NA	Water	7470A	
180-146490-12	APMW-9	Total/NA	Water	7470A	
180-146490-13	APMW-8	Total/NA	Water	7470A	
180-146490-14	DUP-02	Total/NA	Water	7470A	
180-146490-15	EB-01	Total/NA	Water	7470A	
180-146490-16	FB-01	Total/NA	Water	7470A	

Eurofins Pittsburgh

QC Association Summary

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

Job ID: 180-146490-1

Metals (Continued)

Prep Batch: 416095 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-416095/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-416095/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-146490-1 MS	APMW-11	Total/NA	Water	7470A	
180-146490-1 MSD	APMW-11	Total/NA	Water	7470A	

Prep Batch: 416155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146490-1	APMW-11	Total Recoverable	Water	3005A	
180-146490-2	DUP-01	Total Recoverable	Water	3005A	
180-146490-3	APMW-12	Total Recoverable	Water	3005A	
180-146490-4	APMW-1R	Total Recoverable	Water	3005A	
180-146490-5	APMW-2	Total Recoverable	Water	3005A	
180-146490-6	APMW-2D	Total Recoverable	Water	3005A	
180-146490-7	APMW-3	Total Recoverable	Water	3005A	
180-146490-8	APMW-4D	Total Recoverable	Water	3005A	
180-146490-9	APMW-3D	Total Recoverable	Water	3005A	
180-146490-10	APMW-10	Total Recoverable	Water	3005A	
180-146490-11	APMW-10D	Total Recoverable	Water	3005A	
180-146490-12	APMW-9	Total Recoverable	Water	3005A	
180-146490-13	APMW-8	Total Recoverable	Water	3005A	
180-146490-14	DUP-02	Total Recoverable	Water	3005A	
180-146490-15	EB-01	Total Recoverable	Water	3005A	
180-146490-16	FB-01	Total Recoverable	Water	3005A	
MB 180-416155/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-416155/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-146490-16 MS	FB-01	Total Recoverable	Water	3005A	
180-146490-16 MSD	FB-01	Total Recoverable	Water	3005A	

Analysis Batch: 416171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146490-1	APMW-11	Total/NA	Water	EPA 7470A	416095
180-146490-2	DUP-01	Total/NA	Water	EPA 7470A	416095
180-146490-3	APMW-12	Total/NA	Water	EPA 7470A	416095
180-146490-4	APMW-1R	Total/NA	Water	EPA 7470A	416095
180-146490-5	APMW-2	Total/NA	Water	EPA 7470A	416095
180-146490-6	APMW-2D	Total/NA	Water	EPA 7470A	416095
180-146490-7	APMW-3	Total/NA	Water	EPA 7470A	416095
180-146490-8	APMW-4D	Total/NA	Water	EPA 7470A	416095
180-146490-9	APMW-3D	Total/NA	Water	EPA 7470A	416095
180-146490-10	APMW-10	Total/NA	Water	EPA 7470A	416095
180-146490-11	APMW-10D	Total/NA	Water	EPA 7470A	416095
180-146490-12	APMW-9	Total/NA	Water	EPA 7470A	416095
180-146490-13	APMW-8	Total/NA	Water	EPA 7470A	416095
180-146490-14	DUP-02	Total/NA	Water	EPA 7470A	416095
180-146490-15	EB-01	Total/NA	Water	EPA 7470A	416095
180-146490-16	FB-01	Total/NA	Water	EPA 7470A	416095
MB 180-416095/1-A	Method Blank	Total/NA	Water	EPA 7470A	416095
LCS 180-416095/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	416095
180-146490-1 MS	APMW-11	Total/NA	Water	EPA 7470A	416095
180-146490-1 MSD	APMW-11	Total/NA	Water	EPA 7470A	416095

Eurofins Pittsburgh

QC Association Summary

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

Job ID: 180-146490-1

Metals

Analysis Batch: 416793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146490-1	APMW-11	Total Recoverable	Water	EPA 6020B	416155
180-146490-2	DUP-01	Total Recoverable	Water	EPA 6020B	416155
180-146490-3	APMW-12	Total Recoverable	Water	EPA 6020B	416155
180-146490-4	APMW-1R	Total Recoverable	Water	EPA 6020B	416155
180-146490-5	APMW-2	Total Recoverable	Water	EPA 6020B	416155
180-146490-6	APMW-2D	Total Recoverable	Water	EPA 6020B	416155
180-146490-7	APMW-3	Total Recoverable	Water	EPA 6020B	416155
180-146490-8	APMW-4D	Total Recoverable	Water	EPA 6020B	416155
180-146490-9	APMW-3D	Total Recoverable	Water	EPA 6020B	416155
180-146490-10	APMW-10	Total Recoverable	Water	EPA 6020B	416155
180-146490-11	APMW-10D	Total Recoverable	Water	EPA 6020B	416155
180-146490-12	APMW-9	Total Recoverable	Water	EPA 6020B	416155
180-146490-13	APMW-8	Total Recoverable	Water	EPA 6020B	416155
180-146490-14	DUP-02	Total Recoverable	Water	EPA 6020B	416155
180-146490-15	EB-01	Total Recoverable	Water	EPA 6020B	416155
180-146490-16	FB-01	Total Recoverable	Water	EPA 6020B	416155
MB 180-416155/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	416155
LCS 180-416155/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	416155
180-146490-16 MS	FB-01	Total Recoverable	Water	EPA 6020B	416155
180-146490-16 MSD	FB-01	Total Recoverable	Water	EPA 6020B	416155

Analysis Batch: 416939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146490-4	APMW-1R	Total Recoverable	Water	EPA 6020B	416155
180-146490-6	APMW-2D	Total Recoverable	Water	EPA 6020B	416155
180-146490-7	APMW-3	Total Recoverable	Water	EPA 6020B	416155
180-146490-9	APMW-3D	Total Recoverable	Water	EPA 6020B	416155
180-146490-10	APMW-10	Total Recoverable	Water	EPA 6020B	416155
180-146490-11	APMW-10D	Total Recoverable	Water	EPA 6020B	416155
180-146490-12	APMW-9	Total Recoverable	Water	EPA 6020B	416155
180-146490-13	APMW-8	Total Recoverable	Water	EPA 6020B	416155
180-146490-14	DUP-02	Total Recoverable	Water	EPA 6020B	416155
180-146490-15	EB-01	Total Recoverable	Water	EPA 6020B	416155
180-146490-16	FB-01	Total Recoverable	Water	EPA 6020B	416155
180-146490-16 MS	FB-01	Total Recoverable	Water	EPA 6020B	416155
180-146490-16 MSD	FB-01	Total Recoverable	Water	EPA 6020B	416155

Analysis Batch: 417094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146490-8	APMW-4D	Total Recoverable	Water	EPA 6020B	416155

General Chemistry

Analysis Batch: 415898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146490-9	APMW-3D	Total/NA	Water	SM 2540C	
180-146490-10	APMW-10	Total/NA	Water	SM 2540C	
180-146490-11	APMW-10D	Total/NA	Water	SM 2540C	
180-146490-12	APMW-9	Total/NA	Water	SM 2540C	
180-146490-13	APMW-8	Total/NA	Water	SM 2540C	
180-146490-14	DUP-02	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 180-146490-1

General Chemistry (Continued)

Analysis Batch: 415898 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146490-15	EB-01	Total/NA	Water	SM 2540C	
180-146490-16	FB-01	Total/NA	Water	SM 2540C	
MB 180-415898/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-415898/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-146490-9 DU	APMW-3D	Total/NA	Water	SM 2540C	

Analysis Batch: 415902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146490-2	DUP-01	Total/NA	Water	SM 2540C	
180-146490-3	APMW-12	Total/NA	Water	SM 2540C	
180-146490-5	APMW-2	Total/NA	Water	SM 2540C	
180-146490-6	APMW-2D	Total/NA	Water	SM 2540C	
MB 180-415902/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-415902/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 415936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146490-1	APMW-11	Total/NA	Water	SM 2540C	
180-146490-4	APMW-1R	Total/NA	Water	SM 2540C	
180-146490-7	APMW-3	Total/NA	Water	SM 2540C	
180-146490-8	APMW-4D	Total/NA	Water	SM 2540C	
MB 180-415936/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-415936/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Client Information Client Contact: <u>Brett Scales / Raul Hernandez</u> SCS Contacts: <u>850 380 3458</u> Company:		Lab PM: <u>Brown, Shali</u> E-Mail: <u>shali.brown@eurofinset.com</u>		Carrier Tracking No(s): Page: Job #		COC No: Preservation Codes: M - Hexane N - None O - AshSO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Address: <u>3535 Colonnade Pkwy Bin S 530 EC</u> City: <u>Birmingham</u> State, Zip: <u>AL, 35243</u> Phone: <u>205-992-6283</u> Email:		Due Date Requested: TAT Requested (days):		Analysis Requested 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate 6020B/7470 Custom 14 (Appl/Imp/Py) + Mercury 9315_Ra226 Radium 226 9320_Ra228 Radium 228 Combined RAD		Special Instructions/Note: Total Number of Containers:	
PO #: WO #: Project #: SCS Contacts: <u>Plant Watson</u> Site: <u>Ash Pond</u>		Matrix (W=water, S=solid, O=organic, BT=Tissue, A=Air) Sample Type (C=comp, G=grab)		Sample Date Sample Time Matrix		Special Instructions/Note: 180-146490 Chain of Custody	
Sample Identification <u>APMW-11</u> <u>Dop-01</u> <u>APMW-12</u> <u>APMW-1R</u> <u>APMW-2</u> <u>APMW-2D</u> <u>APMW-3</u> <u>APMW-4D</u> <u>APMW-3D</u> <u>APMW-0</u> <u>APMW 10D</u>		Sample Date Sample Time Matrix		Analysis Requested 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate 6020B/7470 Custom 14 (Appl/Imp/Py) + Mercury 9315_Ra226 Radium 226 9320_Ra228 Radium 228 Combined RAD		Special Instructions/Note: Total Number of Containers:	
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		Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo.) <input checked="" type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/OC Requirements:	
Empty Kit Relinquished by:		Date:		Method of Shipment:		Received by: <u>Shali Brown</u> Date/Time: <u>12/15/22 9:15</u> Company: <u>ETA-P</u>	
Relinquished by:		Date:		Received by:		Date/Time:	
Relinquished by:		Date:		Received by:		Date/Time:	
Custody Seals Intact: <u>Δ Yes Δ No</u>		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Company:	



Chain of Custody Record

Client Information Client Contact: SCS Contacts Company: SCS Address: 3635 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email: SCS Contacts Project Name: Plant Watson Site: Ash Pond		Sampler: <u>Brown, Shali</u> Lab PM: <u>Brown, Shali</u> E-Mail: <u>shali.brown@eurofinset.com</u> Carrier Tracking No(s): Job #:		Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 18020186 SSOW#:	Matrix (Water, Soil, Sewage, Oil, Other) Sample Type (C=Comp, G=grab) Sample Time Sample Date	2540C Total Dissolved Solids 300 28Day Chloride Fluoride Sulfate 6020B/7470 Custom 14 (Appl/Al/PV) + Mercury 9315 Ra226 Radium 226 9320 Ra228 Radium 228 Combined RAD	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)	Special Instructions/Note: Analysis Requested: 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:			
Sample Identification APNW-9 APNW-8 AWP-02 EB-01 FB-01		10-18-22 1107 10-18-22 1421 10-18-22 0854 10-18-22 1053 10-18-22 0906		water-10 water-10 water-10 water-10 water-10		X X X X X X X X X X X X X X X X X X X X		Special Instructions/Note: Analysis Requested: 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:			
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				Deliverable Requested: I, II, III, IV, Other (specify)				Empty Kit Relinquished by:			
Relinquished by: <u>[Signature]</u> Relinquished by: <u>[Signature]</u> Relinquished by:		Date/Time: 10/18/22 1445 Date/Time: Date/Time:		Company: EPA Company: Company:		Received by: <u>[Signature]</u> Received by: Received by:		Date/Time: 10/11/20 95 Date/Time: Date/Time:		Company: EPA Company: Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				Cooler Temperature(s) °C and Other Remarks:				Method of Shipment:			



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Part # 159469-434 MTW EXP 06/23

ORIGIN ID:GTYA (850) 336-0192
RICK HAGENDORFER
RDH SAMPLING
10998A COUNTY ROAD 97
ELBERTA, AL 36530
UNITED STATES US

SHIP DATE: 13OCT22
ACTWGT: 50.00 LB MAN
CAD: 0129689/CAFE3511

TO

TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238-29L

(412) 983-7058

REF:

DEPT:

RMA: III IIIII

Thermometer ID 21 20

CF 0 Initials M

PT-WI-SR-001 effective 7/26/13

Uncorrected temp _____ °C

FedEx
Express



J2110201210201121

WED - 19 OCT 10:30A
PRIORITY OVERNIGHT

FedEx
TRK# 5881 4550 7752
0221

XN AGCA

15238

PA-US

PIT



180-146490 Waybill

10:30 A
7:52
10:19

RT 98

FZ

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID: GTYA (850) 336-0192
RICK HAGEDORFER
RDH SAMPLING
10998A COUNTY ROAD 97
ELBERTA, AL 36530
UNITED STATES US

SHIP DATE: 13OCT22
ACTWGT: 50.00 LB TAN
CAD: 0129689/CAFE3511

TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238 - 2907

REF: (412) 983-7066

DEPT:

RMA: 

Uncorrected temp 2.5 °C
Thermometer ID 20

DF Initials MA

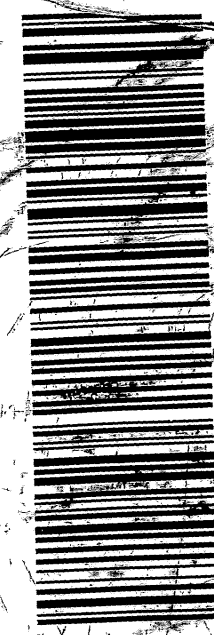
PA-WI-SR-001 effective 7/26/19

FedEx
TRK# 5881 4550 7730
Q221

WED - 19 OCT 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID: GTYA (850) 336-0192
RICK HAGEDORFER
RDH SAMPLING
10998A COUNTY ROAD 97
ELBERTA, AL 36530
UNITED STATES US

SHIP DATE: 13OCT22
ACTWGT: 50.00 LB TAN
CAD: 0129689/CAFE3511

TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238 - 2907

REF: (412) 983-7066

DEPT:

RMA: 

Uncorrected temp 31 °C
Thermometer ID 20

DF Initials MA

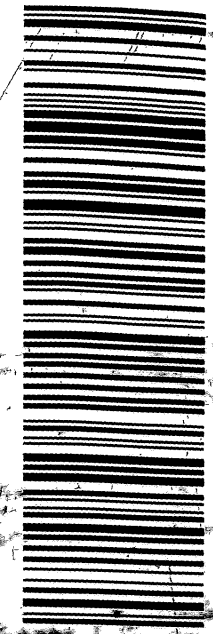
PA-WI-SR-001 effective 7/26/19

FedEx
TRK# 5881 4550 7763
Q221

WED - 19 OCT 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



61.0
5917
10:30
763

14 MTW EXP 06/23

570C1/AC5F/EF4D

570C1/AC5F/EF4D

15297-435 RDH EXP 01/23

#5013621 10/18 58111/AC5F/FE2D



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-146490-1

Login Number: 146490

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

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



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

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

Generated 11/22/2022 9:24:41 AM

JOB DESCRIPTION

Plant Watson Ash Pond

JOB NUMBER

180-146490-2



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	13
QC Sample Results	29
QC Association Summary	32
Chain of Custody	33
Receipt Checklists	39
Appendix	41

Case Narrative

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

Job ID: 180-146490-2

Job ID: 180-146490-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-146490-2

Receipt

The samples were received on 10/19/2022 9:15 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 time was 2.1°C

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 prep batch 160-587423: 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 (180-146490-1), DUP-01 (180-146490-2), APMW-12 (180-146490-3), APMW-1R (180-146490-4), APMW-2 (180-146490-5), APMW-2D (180-146490-6), APMW-3 (180-146490-7), APMW-4D (180-146490-8), APMW-3D (180-146490-9), APMW-10 (180-146490-10), APMW-10D (180-146490-11), APMW-9 (180-146490-12), APMW-8 (180-146490-13), DUP-02 (180-146490-14), EB-01 (180-146490-15), FB-01 (180-146490-16), (LCS 160-587423/2-A), (MB 160-587423/1-A) and (180-146490-B-1-A DU)

Method 9320_Ra228: Radium-228 batch 587424 The method blank (MB) has activity above the MDC and RL. The following associated samples are either below the reporting limit for the contaminant or exhibit concentrations greater than five (5) times the concentrations observed in the MB), therefore, re-analysis is not required. The data have been reported. (MB 160-587424/1-A)

Method 9320_Ra228: Radium-228 batch 587424 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 (180-146490-1), DUP-01 (180-146490-2), APMW-12 (180-146490-3), APMW-1R (180-146490-4), APMW-2 (180-146490-5), APMW-4D (180-146490-8), APMW-3D (180-146490-9), APMW-10D (180-146490-11), EB-01 (180-146490-15), FB-01 (180-146490-16), (LCS 160-587424/2-A), (MB 160-587424/1-A) and (180-146490-B-1-B DU)

Method 9320_Ra228: Ra228 prep batch 160-587424 The sample duplicate precision for the following sample associated with preparation batch 160-587424 and analytical batch 160-590173 was outside control limits: (180-146490-B-1-B DU). The activity for the sample and duplicate were both less than the requested limit.

Method 9320_Ra228: Radium-228 Prep Batch 160-590426 Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-2D (180-146490-6), APMW-3 (180-146490-7), APMW-10 (180-146490-10), APMW-9 (180-146490-12), APMW-8 (180-146490-13) and DUP-02 (180-146490-14). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9320_Ra228: Radium-228 prep batch 160-590426: 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-2D (180-146490-6), APMW-3 (180-146490-7), APMW-10 (180-146490-10), APMW-9 (180-146490-12), APMW-8 (180-146490-13), DUP-02 (180-146490-14), (LCS 160-590426/2-A), (LCSD 160-590426/3-A) and (MB 160-590426/1-A)

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

Rad

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

Definitions/Glossary

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

Job ID: 180-146490-2

Qualifiers

Rad

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit
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: 180-146490-2

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	06-30-23
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	11-30-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-23
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	12-31-22

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

Sample Summary

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

Job ID: 180-146490-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-146490-1	APMW-11	Water	10/17/22 08:40	10/19/22 09:15
180-146490-2	DUP-01	Water	10/17/22 09:40	10/19/22 09:15
180-146490-3	APMW-12	Water	10/17/22 11:51	10/19/22 09:15
180-146490-4	APMW-1R	Water	10/17/22 13:30	10/19/22 09:15
180-146490-5	APMW-2	Water	10/17/22 14:30	10/19/22 09:15
180-146490-6	APMW-2D	Water	10/18/22 07:58	10/19/22 09:15
180-146490-7	APMW-3	Water	10/18/22 09:32	10/19/22 09:15
180-146490-8	APMW-4D	Water	10/18/22 13:23	10/19/22 09:15
180-146490-9	APMW-3D	Water	10/18/22 11:05	10/19/22 09:15
180-146490-10	APMW-10	Water	10/18/22 09:54	10/19/22 09:15
180-146490-11	APMW-10D	Water	10/18/22 08:08	10/19/22 09:15
180-146490-12	APMW-9	Water	10/18/22 11:07	10/19/22 09:15
180-146490-13	APMW-8	Water	10/18/22 14:21	10/19/22 09:15
180-146490-14	DUP-02	Water	10/18/22 08:54	10/19/22 09:15
180-146490-15	EB-01	Water	10/18/22 10:53	10/19/22 09:15
180-146490-16	FB-01	Water	10/18/22 09:06	10/19/22 09:15



Method Summary

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

Job ID: 180-146490-2

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

Protocol References:

None = None

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

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

Laboratory References:

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

Lab Chronicle

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

Job ID: 180-146490-2

Client Sample ID: APMW-11

Lab Sample ID: 180-146490-1

Date Collected: 10/17/22 08:40

Matrix: Water

Date Received: 10/19/22 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			1002.80 mL	1.0 g	587423	10/26/22 11:55	BMP	EET SL
Total/NA	Analysis	9315		1			590569	11/18/22 16:42	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1002.80 mL	1.0 g	587424	10/26/22 12:19	BMP	EET SL
Total/NA	Analysis	9320		1			590173	11/15/22 14:17	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			590899	11/21/22 22:35	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01

Lab Sample ID: 180-146490-2

Date Collected: 10/17/22 09:40

Matrix: Water

Date Received: 10/19/22 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			1000.61 mL	1.0 g	587423	10/26/22 11:55	BMP	EET SL
Total/NA	Analysis	9315		1			590569	11/18/22 16:43	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.61 mL	1.0 g	587424	10/26/22 12:19	BMP	EET SL
Total/NA	Analysis	9320		1			590173	11/15/22 14:17	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			590899	11/21/22 22:35	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-12

Lab Sample ID: 180-146490-3

Date Collected: 10/17/22 11:51

Matrix: Water

Date Received: 10/19/22 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			976.09 mL	1.0 g	587423	10/26/22 11:55	BMP	EET SL
Total/NA	Analysis	9315		1			590569	11/18/22 16:43	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			976.09 mL	1.0 g	587424	10/26/22 12:19	BMP	EET SL
Total/NA	Analysis	9320		1			590173	11/15/22 14:17	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			590899	11/21/22 22:35	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-1R

Lab Sample ID: 180-146490-4

Date Collected: 10/17/22 13:30

Matrix: Water

Date Received: 10/19/22 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			1010.40 mL	1.0 g	587423	10/26/22 11:55	BMP	EET SL
Total/NA	Analysis	9315		1			590569	11/18/22 16:43	FLC	EET SL
Instrument ID: GFPCRED										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-146490-2

Client Sample ID: APMW-1R

Lab Sample ID: 180-146490-4

Date Collected: 10/17/22 13:30

Matrix: Water

Date Received: 10/19/22 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_0			1010.40 mL	1.0 g	587424	10/26/22 12:19	BMP	EET SL
Total/NA	Analysis	9320		1			590173	11/15/22 14:17	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			590899	11/21/22 22:35	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-2

Lab Sample ID: 180-146490-5

Date Collected: 10/17/22 14:30

Matrix: Water

Date Received: 10/19/22 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			995.12 mL	1.0 g	587423	10/26/22 11:55	BMP	EET SL
Total/NA	Analysis	9315		1			590569	11/18/22 16:43	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			995.12 mL	1.0 g	587424	10/26/22 12:19	BMP	EET SL
Total/NA	Analysis	9320		1			590173	11/15/22 14:18	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			590899	11/21/22 22:35	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-2D

Lab Sample ID: 180-146490-6

Date Collected: 10/18/22 07:58

Matrix: Water

Date Received: 10/19/22 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			1001.64 mL	1.0 g	587423	10/26/22 11:55	BMP	EET SL
Total/NA	Analysis	9315		1			590568	11/18/22 16:39	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1006.04 mL	1.0 g	590426	11/17/22 12:57	DJP	EET SL
Total/NA	Analysis	9320		1			590889	11/21/22 12:52	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			590899	11/21/22 22:35	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-3

Lab Sample ID: 180-146490-7

Date Collected: 10/18/22 09:32

Matrix: Water

Date Received: 10/19/22 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			995.36 mL	1.0 g	587423	10/26/22 11:55	BMP	EET SL
Total/NA	Analysis	9315		1			590568	11/18/22 19:04	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1003.26 mL	1.0 g	590426	11/17/22 12:57	DJP	EET SL
Total/NA	Analysis	9320		1			590889	11/21/22 12:53	FLC	EET SL
Instrument ID: GFPCBLUE										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-146490-2

Client Sample ID: APMW-3

Lab Sample ID: 180-146490-7

Date Collected: 10/18/22 09:32

Matrix: Water

Date Received: 10/19/22 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	Ra226_Ra228		1			590899	11/21/22 22:35	MLK	EET SL

Client Sample ID: APMW-4D

Lab Sample ID: 180-146490-8

Date Collected: 10/18/22 13:23

Matrix: Water

Date Received: 10/19/22 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			993.83 mL	1.0 g	587423	10/26/22 11:55	BMP	EET SL
Total/NA	Analysis	9315		1			590568	11/18/22 19:04	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			993.83 mL	1.0 g	587424	10/26/22 12:19	BMP	EET SL
Total/NA	Analysis	9320		1			590173	11/15/22 14:18	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			590899	11/21/22 22:35	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-3D

Lab Sample ID: 180-146490-9

Date Collected: 10/18/22 11:05

Matrix: Water

Date Received: 10/19/22 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			999.78 mL	1.0 g	587423	10/26/22 11:55	BMP	EET SL
Total/NA	Analysis	9315		1			590568	11/18/22 19:05	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.78 mL	1.0 g	587424	10/26/22 12:19	BMP	EET SL
Total/NA	Analysis	9320		1			590173	11/15/22 14:18	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			590899	11/21/22 22:35	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-10

Lab Sample ID: 180-146490-10

Date Collected: 10/18/22 09:54

Matrix: Water

Date Received: 10/19/22 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			1006.46 mL	1.0 g	587423	10/26/22 11:55	BMP	EET SL
Total/NA	Analysis	9315		1			590568	11/18/22 19:05	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1003.52 mL	1.0 g	590426	11/17/22 12:57	DJP	EET SL
Total/NA	Analysis	9320		1			590889	11/21/22 12:54	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			590899	11/21/22 22:35	MLK	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-146490-2

Client Sample ID: APMW-10D

Date Collected: 10/18/22 08:08

Date Received: 10/19/22 09:15

Lab Sample ID: 180-146490-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			995.21 mL	1.0 g	587423	10/26/22 11:55	BMP	EET SL
Total/NA	Analysis	9315		1			590567	11/18/22 19:07	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			995.21 mL	1.0 g	587424	10/26/22 12:19	BMP	EET SL
Total/NA	Analysis	9320		1			590174	11/15/22 14:19	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			590899	11/21/22 22:35	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-9

Date Collected: 10/18/22 11:07

Date Received: 10/19/22 09:15

Lab Sample ID: 180-146490-12

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			995.00 mL	1.0 g	587423	10/26/22 11:55	BMP	EET SL
Total/NA	Analysis	9315		1			590567	11/18/22 19:07	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1002.32 mL	1.0 g	590426	11/17/22 12:57	DJP	EET SL
Total/NA	Analysis	9320		1			590889	11/21/22 12:54	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			590899	11/21/22 22:35	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-8

Date Collected: 10/18/22 14:21

Date Received: 10/19/22 09:15

Lab Sample ID: 180-146490-13

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			993.28 mL	1.0 g	587423	10/26/22 11:55	BMP	EET SL
Total/NA	Analysis	9315		1			590567	11/18/22 19:07	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1004.34 mL	1.0 g	590426	11/17/22 12:57	DJP	EET SL
Total/NA	Analysis	9320		1			590889	11/21/22 12:54	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			590899	11/21/22 22:35	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-02

Date Collected: 10/18/22 08:54

Date Received: 10/19/22 09:15

Lab Sample ID: 180-146490-14

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			1004.31 mL	1.0 g	587423	10/26/22 11:55	BMP	EET SL
Total/NA	Analysis	9315		1			590567	11/18/22 19:08	FLC	EET SL
Instrument ID: GFPCPURPLE										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-146490-2

Client Sample ID: DUP-02
Date Collected: 10/18/22 08:54
Date Received: 10/19/22 09:15

Lab Sample ID: 180-146490-14
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			1001.24 mL	1.0 g	590426	11/17/22 12:57	DJP	EET SL
Total/NA	Analysis	9320		1	1.0 mL	1.0 mL	590889	11/21/22 12:54	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			590899	11/21/22 22:35	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-01
Date Collected: 10/18/22 10:53
Date Received: 10/19/22 09:15

Lab Sample ID: 180-146490-15
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			999.31 mL	1.0 g	587423	10/26/22 11:55	BMP	EET SL
Total/NA	Analysis	9315		1			590567	11/18/22 19:08	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			999.31 mL	1.0 g	587424	10/26/22 12:19	BMP	EET SL
Total/NA	Analysis	9320		1			590174	11/15/22 14:20	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			590899	11/21/22 22:35	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-01
Date Collected: 10/18/22 09:06
Date Received: 10/19/22 09:15

Lab Sample ID: 180-146490-16
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			1000.28 mL	1.0 g	587423	10/26/22 11:55	BMP	EET SL
Total/NA	Analysis	9315		1			590567	11/18/22 19:08	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1000.28 mL	1.0 g	587424	10/26/22 12:19	BMP	EET SL
Total/NA	Analysis	9320		1			590174	11/15/22 14:20	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			590899	11/21/22 22:35	MLK	EET SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: EET SL

Batch Type: Prep

BMP = Bailey Pinette

DJP = Dalton Pieper

Batch Type: Analysis

FLC = Fernando Cruz

MLK = Micha Korrinhizer

Eurofins Pittsburgh

Client Sample Results

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

Job ID: 180-146490-2

Client Sample ID: APMW-11

Lab Sample ID: 180-146490-1

Date Collected: 10/17/22 08:40

Matrix: Water

Date Received: 10/19/22 09:15

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.125	U	0.104	0.105	1.00	0.154	pCi/L	10/26/22 11:55	11/18/22 16:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					10/26/22 11:55	11/18/22 16:42	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0589	U	0.249	0.249	1.00	0.455	pCi/L	10/26/22 12:19	11/15/22 14:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					10/26/22 12:19	11/15/22 14:17	1
Y Carrier	88.2		40 - 110					10/26/22 12:19	11/15/22 14:17	1

Method: TAL-STL 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	0.184	U	0.270	0.270	5.00	0.455	pCi/L		11/21/22 22:35	1

Client Sample Results

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

Job ID: 180-146490-2

Client Sample ID: DUP-01
Date Collected: 10/17/22 09:40
Date Received: 10/19/22 09:15

Lab Sample ID: 180-146490-2
Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0600	U	0.0841	0.0843	1.00	0.143	pCi/L	10/26/22 11:55	11/18/22 16:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					10/26/22 11:55	11/18/22 16:43	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.192	U	0.277	0.278	1.00	0.570	pCi/L	10/26/22 12:19	11/15/22 14:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					10/26/22 12:19	11/15/22 14:17	1
Y Carrier	86.4		40 - 110					10/26/22 12:19	11/15/22 14:17	1

Method: TAL-STL 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	-0.132	U	0.289	0.291	5.00	0.570	pCi/L		11/21/22 22:35	1

Client Sample Results

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

Job ID: 180-146490-2

Client Sample ID: APMW-12

Lab Sample ID: 180-146490-3

Date Collected: 10/17/22 11:51

Matrix: Water

Date Received: 10/19/22 09:15

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.207		0.119	0.120	1.00	0.147	pCi/L	10/26/22 11:55	11/18/22 16:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					10/26/22 11:55	11/18/22 16:43	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.765		0.372	0.379	1.00	0.507	pCi/L	10/26/22 12:19	11/15/22 14:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					10/26/22 12:19	11/15/22 14:17	1
Y Carrier	86.4		40 - 110					10/26/22 12:19	11/15/22 14:17	1

Method: TAL-STL 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	0.971		0.391	0.398	5.00	0.507	pCi/L		11/21/22 22:35	1

Client Sample Results

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

Job ID: 180-146490-2

Client Sample ID: APMW-1R

Lab Sample ID: 180-146490-4

Date Collected: 10/17/22 13:30

Matrix: Water

Date Received: 10/19/22 09:15

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	6.22		0.521	0.765	1.00	0.163	pCi/L	10/26/22 11:55	11/18/22 16:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		40 - 110					10/26/22 11:55	11/18/22 16:43	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	7.78		0.840	1.10	1.00	0.454	pCi/L	10/26/22 12:19	11/15/22 14:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		40 - 110					10/26/22 12:19	11/15/22 14:17	1
Y Carrier	87.9		40 - 110					10/26/22 12:19	11/15/22 14:17	1

Method: TAL-STL 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	14.0		0.988	1.34	5.00	0.454	pCi/L		11/21/22 22:35	1

Client Sample Results

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

Job ID: 180-146490-2

Client Sample ID: APMW-2

Lab Sample ID: 180-146490-5

Date Collected: 10/17/22 14:30

Matrix: Water

Date Received: 10/19/22 09:15

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	11.3		0.701	1.24	1.00	0.139	pCi/L	10/26/22 11:55	11/18/22 16:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					10/26/22 11:55	11/18/22 16:43	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	7.79		0.885	1.14	1.00	0.657	pCi/L	10/26/22 12:19	11/15/22 14:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					10/26/22 12:19	11/15/22 14:18	1
Y Carrier	86.7		40 - 110					10/26/22 12:19	11/15/22 14:18	1

Method: TAL-STL 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	19.1		1.13	1.68	5.00	0.657	pCi/L		11/21/22 22:35	1

Client Sample Results

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

Job ID: 180-146490-2

Client Sample ID: APMW-2D

Lab Sample ID: 180-146490-6

Date Collected: 10/18/22 07:58

Matrix: Water

Date Received: 10/19/22 09:15

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0421	U	0.109	0.109	1.00	0.198	pCi/L	10/26/22 11:55	11/18/22 16:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		40 - 110					10/26/22 11:55	11/18/22 16:39	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.66		0.453	0.478	1.00	0.495	pCi/L	11/17/22 12:57	11/21/22 12:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					11/17/22 12:57	11/21/22 12:52	1
Y Carrier	91.2		40 - 110					11/17/22 12:57	11/21/22 12:52	1

Method: TAL-STL 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	1.70		0.466	0.490	5.00	0.495	pCi/L		11/21/22 22:35	1

Client Sample Results

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

Job ID: 180-146490-2

Client Sample ID: APMW-3

Lab Sample ID: 180-146490-7

Date Collected: 10/18/22 09:32

Matrix: Water

Date Received: 10/19/22 09:15

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.683		0.207	0.216	1.00	0.192	pCi/L	10/26/22 11:55	11/18/22 19:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					10/26/22 11:55	11/18/22 19:04	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.61		0.697	0.868	1.00	0.435	pCi/L	11/17/22 12:57	11/21/22 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.3		40 - 110					11/17/22 12:57	11/21/22 12:53	1
Y Carrier	89.3		40 - 110					11/17/22 12:57	11/21/22 12:53	1

Method: TAL-STL 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	6.30		0.727	0.894	5.00	0.435	pCi/L		11/21/22 22:35	1

Client Sample Results

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

Job ID: 180-146490-2

Client Sample ID: APMW-4D

Lab Sample ID: 180-146490-8

Date Collected: 10/18/22 13:23

Matrix: Water

Date Received: 10/19/22 09:15

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.793		0.202	0.215	1.00	0.148	pCi/L	10/26/22 11:55	11/18/22 19:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					10/26/22 11:55	11/18/22 19:04	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	7.53		0.892	1.13	1.00	0.550	pCi/L	10/26/22 12:19	11/15/22 14:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					10/26/22 12:19	11/15/22 14:18	1
Y Carrier	84.1		40 - 110					10/26/22 12:19	11/15/22 14:18	1

Method: TAL-STL 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	8.32		0.915	1.15	5.00	0.550	pCi/L		11/21/22 22:35	1

Client Sample Results

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

Job ID: 180-146490-2

Client Sample ID: APMW-3D

Lab Sample ID: 180-146490-9

Date Collected: 10/18/22 11:05

Matrix: Water

Date Received: 10/19/22 09:15

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.421		0.160	0.165	1.00	0.172	pCi/L	10/26/22 11:55	11/18/22 19:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					10/26/22 11:55	11/18/22 19:05	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.644		0.363	0.368	1.00	0.517	pCi/L	10/26/22 12:19	11/15/22 14:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					10/26/22 12:19	11/15/22 14:18	1
Y Carrier	86.0		40 - 110					10/26/22 12:19	11/15/22 14:18	1

Method: TAL-STL 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		0.397	0.403	5.00	0.517	pCi/L		11/21/22 22:35	1

Client Sample Results

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

Job ID: 180-146490-2

Client Sample ID: APMW-10

Lab Sample ID: 180-146490-10

Date Collected: 10/18/22 09:54

Matrix: Water

Date Received: 10/19/22 09:15

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.87		0.301	0.345	1.00	0.210	pCi/L	10/26/22 11:55	11/18/22 19:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		40 - 110					10/26/22 11:55	11/18/22 19:05	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.75		0.538	0.594	1.00	0.501	pCi/L	11/17/22 12:57	11/21/22 12:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.4		40 - 110					11/17/22 12:57	11/21/22 12:54	1
Y Carrier	91.2		40 - 110					11/17/22 12:57	11/21/22 12:54	1

Method: TAL-STL 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	4.61		0.616	0.687	5.00	0.501	pCi/L		11/21/22 22:35	1

Client Sample Results

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

Job ID: 180-146490-2

Client Sample ID: APMW-10D

Lab Sample ID: 180-146490-11

Date Collected: 10/18/22 08:08

Matrix: Water

Date Received: 10/19/22 09:15

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.279		0.146	0.148	1.00	0.190	pCi/L	10/26/22 11:55	11/18/22 19:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		40 - 110					10/26/22 11:55	11/18/22 19:07	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.536	U	0.392	0.395	1.00	0.603	pCi/L	10/26/22 12:19	11/15/22 14:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		40 - 110					10/26/22 12:19	11/15/22 14:19	1
Y Carrier	85.2		40 - 110					10/26/22 12:19	11/15/22 14:19	1

Method: TAL-STL 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	0.815		0.418	0.422	5.00	0.603	pCi/L		11/21/22 22:35	1

Client Sample Results

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

Job ID: 180-146490-2

Client Sample ID: APMW-9

Lab Sample ID: 180-146490-12

Date Collected: 10/18/22 11:07

Matrix: Water

Date Received: 10/19/22 09:15

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.57		0.343	0.414	1.00	0.159	pCi/L	10/26/22 11:55	11/18/22 19:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					10/26/22 11:55	11/18/22 19:07	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.46		0.765	0.969	1.00	0.494	pCi/L	11/17/22 12:57	11/21/22 12:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.6		40 - 110					11/17/22 12:57	11/21/22 12:54	1
Y Carrier	95.7		40 - 110					11/17/22 12:57	11/21/22 12:54	1

Method: TAL-STL 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	9.03		0.838	1.05	5.00	0.494	pCi/L		11/21/22 22:35	1

Client Sample Results

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

Job ID: 180-146490-2

Client Sample ID: APMW-8

Lab Sample ID: 180-146490-13

Date Collected: 10/18/22 14:21

Matrix: Water

Date Received: 10/19/22 09:15

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.56		0.262	0.297	1.00	0.166	pCi/L	10/26/22 11:55	11/18/22 19:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		40 - 110					10/26/22 11:55	11/18/22 19:07	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.27		0.650	0.760	1.00	0.462	pCi/L	11/17/22 12:57	11/21/22 12:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.7		40 - 110					11/17/22 12:57	11/21/22 12:54	1
Y Carrier	93.1		40 - 110					11/17/22 12:57	11/21/22 12:54	1

Method: TAL-STL 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	5.83		0.701	0.816	5.00	0.462	pCi/L		11/21/22 22:35	1

Client Sample Results

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

Job ID: 180-146490-2

Client Sample ID: DUP-02
 Date Collected: 10/18/22 08:54
 Date Received: 10/19/22 09:15

Lab Sample ID: 180-146490-14
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.76		0.297	0.336	1.00	0.190	pCi/L	10/26/22 11:55	11/18/22 19:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					10/26/22 11:55	11/18/22 19:08	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.75		0.598	0.649	1.00	0.593	pCi/L	11/17/22 12:57	11/21/22 12:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.2		40 - 110					11/17/22 12:57	11/21/22 12:54	1
Y Carrier	92.3		40 - 110					11/17/22 12:57	11/21/22 12:54	1

Method: TAL-STL 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	4.52		0.668	0.731	5.00	0.593	pCi/L		11/21/22 22:35	1

Client Sample Results

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

Job ID: 180-146490-2

Client Sample ID: EB-01

Lab Sample ID: 180-146490-15

Date Collected: 10/18/22 10:53

Matrix: Water

Date Received: 10/19/22 09:15

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.359		0.148	0.152	1.00	0.167	pCi/L	10/26/22 11:55	11/18/22 19:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					10/26/22 11:55	11/18/22 19:08	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.168	U	0.309	0.310	1.00	0.533	pCi/L	10/26/22 12:19	11/15/22 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					10/26/22 12:19	11/15/22 14:20	1
Y Carrier	86.4		40 - 110					10/26/22 12:19	11/15/22 14:20	1

Method: TAL-STL 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	0.526	U	0.343	0.345	5.00	0.533	pCi/L		11/21/22 22:35	1

Client Sample Results

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

Job ID: 180-146490-2

Client Sample ID: FB-01

Lab Sample ID: 180-146490-16

Date Collected: 10/18/22 09:06

Matrix: Water

Date Received: 10/19/22 09:15

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.445		0.159	0.164	1.00	0.160	pCi/L	10/26/22 11:55	11/18/22 19:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					10/26/22 11:55	11/18/22 19:08	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.436	U	0.340	0.343	1.00	0.521	pCi/L	10/26/22 12:19	11/15/22 14:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					10/26/22 12:19	11/15/22 14:20	1
Y Carrier	84.1		40 - 110					10/26/22 12:19	11/15/22 14:20	1

Method: TAL-STL 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	0.882		0.375	0.380	5.00	0.521	pCi/L		11/21/22 22:35	1

QC Sample Results

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

Job ID: 180-146490-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-587423/1-A
Matrix: Water
Analysis Batch: 590569

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 587423

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.01725	U	0.102	0.102	1.00	0.205	pCi/L	10/26/22 11:55	11/18/22 16:40	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	94.1		40 - 110			10/26/22 11:55	11/18/22 16:40	1		

Lab Sample ID: LCS 160-587423/2-A
Matrix: Water
Analysis Batch: 590569

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 587423

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.04		1.21	1.00	0.124	pCi/L	97	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	92.6		40 - 110						

Lab Sample ID: 180-146490-1 DU
Matrix: Water
Analysis Batch: 590569

Client Sample ID: APMW-11
Prep Type: Total/NA
Prep Batch: 587423

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.125	U	0.1716		0.103	1.00	0.121	pCi/L	0.22	1
Carrier	DU	DU	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	95.1		40 - 110							

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-587424/1-A
Matrix: Water
Analysis Batch: 590173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 587424

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	1.500		0.455	0.476	1.00	0.528	pCi/L	10/26/22 12:19	11/15/22 14:17	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	94.1		40 - 110			10/26/22 12:19	11/15/22 14:17	1		
Y Carrier	84.9		40 - 110			10/26/22 12:19	11/15/22 14:17	1		

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QC Sample Results

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

Job ID: 180-146490-2

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

Lab Sample ID: LCS 160-587424/2-A
Matrix: Water
Analysis Batch: 590173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 587424

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									75	125
Radium-228	8.44	10.15		1.35	1.00	0.503	pCi/L	120	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	92.6		40 - 110							
Y Carrier	86.0		40 - 110							

Lab Sample ID: 180-146490-1 DU
Matrix: Water
Analysis Batch: 590173

Client Sample ID: APMW-11
Prep Type: Total/NA
Prep Batch: 587424

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
										1
Radium-228	0.0589	U	0.8685	F	0.402	1.00	0.535	pCi/L	1.24	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	95.1		40 - 110							
Y Carrier	85.2		40 - 110							

Lab Sample ID: MB 160-590426/1-A
Matrix: Water
Analysis Batch: 590886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 590426

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
										1
Radium-228	-0.07906	U	0.339	0.339	1.00	0.672	pCi/L	11/17/22 12:57	11/21/22 17:24	1
MB MB										
Carrier	%Yield	Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	100		40 - 110		11/17/22 12:57	11/21/22 17:24	1			
Y Carrier	95.3		40 - 110		11/17/22 12:57	11/21/22 17:24	1			

Lab Sample ID: LCS 160-590426/2-A
Matrix: Water
Analysis Batch: 590889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 590426

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									75	125
Radium-228	8.43	9.333		1.22	1.00	0.472	pCi/L	111	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	100		40 - 110							
Y Carrier	94.2		40 - 110							

QC Sample Results

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

Job ID: 180-146490-2

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

Lab Sample ID: LCSD 160-590426/3-A
Matrix: Water
Analysis Batch: 590889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 590426

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	8.43	10.23		1.34	1.00	0.498	pCi/L	121	75 - 125	0.35	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	97.3		40 - 110
Y Carrier	89.0		40 - 110

- 1
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- 14

QC Association Summary

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

Job ID: 180-146490-2

Rad

Prep Batch: 587423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146490-1	APMW-11	Total/NA	Water	PrecSep-21	
180-146490-2	DUP-01	Total/NA	Water	PrecSep-21	
180-146490-3	APMW-12	Total/NA	Water	PrecSep-21	
180-146490-4	APMW-1R	Total/NA	Water	PrecSep-21	
180-146490-5	APMW-2	Total/NA	Water	PrecSep-21	
180-146490-6	APMW-2D	Total/NA	Water	PrecSep-21	
180-146490-7	APMW-3	Total/NA	Water	PrecSep-21	
180-146490-8	APMW-4D	Total/NA	Water	PrecSep-21	
180-146490-9	APMW-3D	Total/NA	Water	PrecSep-21	
180-146490-10	APMW-10	Total/NA	Water	PrecSep-21	
180-146490-11	APMW-10D	Total/NA	Water	PrecSep-21	
180-146490-12	APMW-9	Total/NA	Water	PrecSep-21	
180-146490-13	APMW-8	Total/NA	Water	PrecSep-21	
180-146490-14	DUP-02	Total/NA	Water	PrecSep-21	
180-146490-15	EB-01	Total/NA	Water	PrecSep-21	
180-146490-16	FB-01	Total/NA	Water	PrecSep-21	
MB 160-587423/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-587423/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
180-146490-1 DU	APMW-11	Total/NA	Water	PrecSep-21	

Prep Batch: 587424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146490-1	APMW-11	Total/NA	Water	PrecSep_0	
180-146490-2	DUP-01	Total/NA	Water	PrecSep_0	
180-146490-3	APMW-12	Total/NA	Water	PrecSep_0	
180-146490-4	APMW-1R	Total/NA	Water	PrecSep_0	
180-146490-5	APMW-2	Total/NA	Water	PrecSep_0	
180-146490-8	APMW-4D	Total/NA	Water	PrecSep_0	
180-146490-9	APMW-3D	Total/NA	Water	PrecSep_0	
180-146490-11	APMW-10D	Total/NA	Water	PrecSep_0	
180-146490-15	EB-01	Total/NA	Water	PrecSep_0	
180-146490-16	FB-01	Total/NA	Water	PrecSep_0	
MB 160-587424/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-587424/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
180-146490-1 DU	APMW-11	Total/NA	Water	PrecSep_0	

Prep Batch: 590426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146490-6	APMW-2D	Total/NA	Water	PrecSep_0	
180-146490-7	APMW-3	Total/NA	Water	PrecSep_0	
180-146490-10	APMW-10	Total/NA	Water	PrecSep_0	
180-146490-12	APMW-9	Total/NA	Water	PrecSep_0	
180-146490-13	APMW-8	Total/NA	Water	PrecSep_0	
180-146490-14	DUP-02	Total/NA	Water	PrecSep_0	
MB 160-590426/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-590426/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-590426/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

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Client Information		Lab PM: Brown, Shali		Carrier Tracking No(s):	
Client Contact: <i>Dietrich Scales</i>		E-Mail: shali.brown@eurofinset.com		COC No:	
SCS Contacts: 850 380 3458		Company: <i>Roche</i>		Page:	
Address: 3535 Colonnade Pkwy Bin S 530 EC		City: Birmingham		Job #:	
State, Zip: AL, 35243		PO #:		Preservation Codes:	
Phone: 205-992-6283		WO #:		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NH4SO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Email:		Project #:		M - Hexane N - None O - AshSO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
SCS Contacts: Plant Watson		Site: Ash Pond		Special Instructions/Note:	
Project Name: 18020186		SSOW#:		Total Number of Containers	
Due Date Requested:		TAT Requested (days):		Special Instructions/Note:	
Sample Identification		Sample Date		Sample Time	
Sample Type (C=Comp, G=grab)		Matrix (W=Water, S=Solid, O=Other, BT=Tissue, A=Air)		Special Instructions/Note:	
APMW-11		10/17/22		1840	
Dop-01		10/17/22		0940	
APMW-12		10/17/22		1151	
APMW-1R		10/17/22		1330	
APMW-2		10/17/22		1430	
APMW-2D		10/18/22		0758	
APMW-3		10/18/22		0832	
APMW-4D		10/18/22		1523	
APMW-3D		10/18/22		1105	
APMW-0		10/18/22		0954	
APMW 10D		10/18/22		0808	
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 mo.)	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Relinquished by: <i>[Signature]</i>		Date: 10-18-22		Date/Time: 12/15/22 915	
Relinquished by: <i>[Signature]</i>		Date: 10-18-22		Date/Time: 12/15/22 915	
Relinquished by:		Date: _____		Date/Time: _____	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Company: <i>Roche</i>	
Cooler Temperature(s) °C and Other Remarks:		Received by: <i>[Signature]</i>		Company: _____	
		Received by:		Company: _____	
		Received by:		Company: _____	



Chain of Custody Record

Client Information Client Contact: SCS Contacts Company: SCS		Sampler: <i>Rick Alexander / 3057es</i> Lab PM: Brown, Shali E-Mail: shali.brown@eurofinset.com		Carrier Tracking No(s): COC No:	
Address: 3635 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email:		Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 18020186 SSOW#:		Analysis Requested 2540C Total Dissolved Solids 300 28Day Chloride Fluoride Sulfate 6020B/7470 Custom 14 (AppII/III/IV) + Mercury 9315 Ra226 Radium 226 9320 Ra228 Radium 228 Combined RAD	
Project Name: Plant Watson Site: Ash Pond		Matrix (W=water, S=solid, O=soil, B=BIOTISSUE, A=Air) Sample Type (C=Comp, G=grab) Sample Date Sample Time		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)	
Sample Identification APNW-9 APNW-8 AWP-02 EB-01 FB-01		Sample Date 10-18-22 10-18-22 10-18-22 10-18-22 10-18-22		Sample Time 1107 1421 0854 1053 0906	
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		Deliverable Requested: I, II, III, IV, Other (specify)		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:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Date/Time: 10/18/22 1445		Received by: <i>[Signature]</i> Company: EPA	
Relinquished by:		Date/Time:		Received by:	
Relinquished by:		Date/Time:		Received by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Part # 159469-434 MTW EXP 06/23

ORIGIN ID:GTYA (850) 336-0192
RICK HAGENDORFER
RDH SAMPLING
10998A COUNTY ROAD 97
ELBERTA, AL 36530
UNITED STATES US

SHIP DATE: 13OCT22
ACTWGT: 50.00 LB MAN
CAD: 0129689/CAFE3511

TO

TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238-29L

10:30 A
7:52
10:19

RT 98
FZ

(412) 983-7058
INV: PO:

REF:

DEPT:

RMA: III IIIIII

Thermometer ID 21 20

CF 0 Initials M

PT-WI-SR-001 effective 7/26/13

Uncorrected temp _____ °C

FedEx Express



J2110201210201121

WED - 19 OCT 10:30A
PRIORITY OVERNIGHT

FedEx

TRK# 5881 4550 7752
0221

XN AGCA

15238

PA-US

PIT



180-146490 Waybill

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- 13
- 14

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID: GTYA (850) 336-0192
RICK HAGEDORFER
RDH SAMPLING
10998A COUNTY ROAD 97
ELBERTA, AL 36530
UNITED STATES US

SHIP DATE: 13OCT22
ACTWGT: 50.00 LB TAN
CAD: 0129689/CAFE3511

TO
TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238 - 2907

(412) 983 - 7066
REF: 1
DEPT: 1



Uncorrected temp 2.5 °C
Thermometer ID 20

DF Initials M

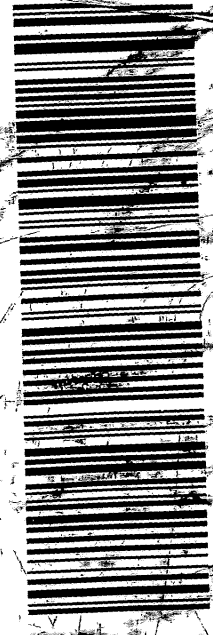
T-WI-SR-001 effective 7/26/19

WED - 19 OCT 10:30A
PRIORITY OVERNIGHT

FedEx
TRK# 5881 4550 7730
0221

XN AGCA

15238
PA-US PIT



#5013621 10/18 58111(ACSF/FEED)

61.0
5917
10:30
1763

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID: GTYA (850) 336-0192
RICK HAGEDORFER
RDH SAMPLING
10998A COUNTY ROAD 97
ELBERTA, AL 36530
UNITED STATES US

SHIP DATE: 13OCT22
ACTWGT: 50.00 LB TAN
CAD: 0129689/CAFE3511

TO
TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238 - 2907

(412) 983 - 7066
REF: 1
DEPT: 1



Uncorrected temp 31 °C
Thermometer ID 20

DF Initials M

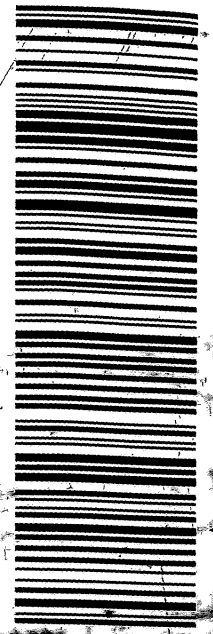
T-WI-SR-001 effective 7/26/19

WED - 19 OCT 10:30A
PRIORITY OVERNIGHT

FedEx
TRK# 5881 4550 7763
0221

XN AGCA

15238
PA-US PIT



#5013621 10/18 58111(ACSF/FEED)



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, Shall	Carrier Tracking No(s)	COC No: 180-472155.1
Client Contact: Shipping/Receiving		E-Mail: Shall: Brown@et.eurofins.com	State of Origin: Georgia	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note)		
Address: 13715 Rider Trail North,		Job #: 180-146490-2		
City: Earth City	Due Date Requested: 11/21/2022	Analysis Requested		
State/Zip: MO, 63045	TAT Requested (days):	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 Y - Trizma L - EDA Z - other (specify)		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #	Preservation Codes:		
Email:	WO #	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:		
Project Name: Plant Watson Ash Pond	Project #: 18020186	Total Number of Containers		
Site: SSOW#	SSOW#	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, L=leachate, A=air)
APMW-11 (180-146490-1)	10/17/22	08:40 Eastern	Water	Water
DUP-01 (180-146490-2)	10/17/22	09:40 Eastern	Water	Water
APMW-12 (180-146490-3)	10/17/22	11:51 Eastern	Water	Water
APMW-1R (180-146490-4)	10/17/22	13:30 Eastern	Water	Water
APMW-2 (180-146490-5)	10/17/22	14:30 Eastern	Water	Water
APMW-2D (180-146490-6)	10/18/22	07:58 Eastern	Water	Water
APMW-3 (180-146490-7)	10/18/22	09:32 Eastern	Water	Water
APMW-4D (180-146490-8)	10/18/22	13:23 Eastern	Water	Water
APMW-3D (180-146490-9)	10/18/22	11:05 Eastern	Water	Water
<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)				
Primary Deliverable Rank: 2				
Date: _____ Time: _____				
Empty Kit Relinquished by: _____				
Relinquished by: <i>MS</i>				
Relinquished by: FED EX				
Relinquished by: _____				
Custody Seals Intact: _____ Custody Seal No				
Δ Yes Δ 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:				
<p>Received by: FED EX Date/Time: _____ Company: _____</p> <p>Received by: <i>Victor</i> Date/Time: OCT 24 2022 0930 Company: FASTC</p> <p>Received by: Autumn R. Johnson Date/Time: _____ Company: _____</p>				



Eurofins 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 (Sub Contract Lab)
 Client Contact: Lab PM Brown, Shall
 Shipping/Receiving: Shall, Brown@et.eurofins.com
 Company: TestAmerica Laboratories, Inc.
 Address: 13715 Rider Trail North,
 City: Earth City
 State, Zip: MO, 63045
 Phone: 314-298-8566(Tel) 314-298-8757(Fax)
 Email:
 Project Name: Plant Watson Ash Pond
 Site:

Carrier Tracking No(s): COC No: 180-472155.2
 State of Origin: Georgia
 Page 2 of 2
 Job #: 180-146490-2
 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 - Na2SO3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4.5
 X - Tizama
 Y - Tizama
 Z - other (Specify)

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, A=air)	Field Filtered Sample (Yes or No)	Form M/MSD (Yes or No)	Analysis Requested		Total Number of Containers	Special Instructions/Note:
							9315_Ra226/PreSep_21 Radium 226	Ra226Ra228_GFFC/Combined Radium-226 and Radium-228		
APMW-0 (180-146490-10)	10/18/22	09:54 Eastern	Water	Water	X	X	X	X	2	
APMW-10D (180-146490-11)	10/18/22	08:08 Eastern	Water	Water	X	X	X	X	2	
APMW-9 (180-146490-12)	10/18/22	11:07 Eastern	Water	Water	X	X	X	X	2	
APMW-8 (180-146490-13)	10/18/22	14:21 Eastern	Water	Water	X	X	X	X	2	
DUP-02 (180-146490-14)	10/18/22	08:54 Eastern	Water	Water	X	X	X	X	2	
EB-01 (180-146490-15)	10/18/22	10:53 Eastern	Water	Water	X	X	X	X	2	
FB-01 (180-146490-16)	10/18/22	09:06 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 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
 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:

Relinquished by	Date/Time	Company	Method of Shipment
<i>MW</i>	10-21-22 1800	Company	FED EX
Relinquished by	Date/Time	Company	Date/Time
FED EX			OCT 24 2022 0930
Relinquished by	Date/Time	Company	Date/Time
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No. Cooler Temperature(s) °C and Other Remarks Autumn R. Johnson		



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-146490-2

Login Number: 146490

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-146490-2

Login Number: 146490

List Number: 2

Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis

List Creation: 10/24/22 01:50 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	



Eurofins Pittsburgh

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Pittsburgh and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Pittsburgh Project Manager or designee who has signed this report.

PA Lab ID: 02-00416

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

Authorization



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

Generated
11/22/2022 9:24:41 AM

ANALYTICAL REPORT

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

Laboratory Job ID: 180-146553-1

Client Project/Site: Plant Watson Ash Pond

For:

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

Attn: Robert (Trey) Singleton



Authorized for release by:

11/7/2022 1:15:30 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

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	12
QC Sample Results	20
QC Association Summary	25
Chain of Custody	28
Receipt Checklists	33

Case Narrative

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

Job ID: 180-146553-1

Job ID: 180-146553-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-146553-1

Comments

No additional comments.

Receipt

The samples were received on 10/20/2022 9:00 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 2.8° C.

GC Semi VOA

Method 300.0: The following samples were diluted due to the nature of the sample matrix: APMW-6R (180-146553-1), APMW-5 (180-146553-3), APMW-4 (180-146553-5) and DUP-03 (180-146553-6). 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.

Metals

Method 6020B: The following samples were diluted to bring the concentration of target analytes within the calibration range: APMW-6R (180-146553-1) and APMW-5 (180-146553-3). Elevated reporting limits (RLs) are provided.

Method 6020B: The post digestion spike % recovery for barium associated with batch 180-416939 was outside of control limits. The associated sample is: FB-03 (180-146553-8).

Method 6020B: The following sample was diluted to bring the concentration of target analytes within the calibration range: DUP-03 (180-146553-6). Elevated reporting limits (RLs) are provided.

Method 7470A: The laboratory control sample (LCS) for preparation batch 180-416094 and 180-416094 and analytical batch 180-416482 recovered above the control limits for mercury. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

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: 180-146553-1

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
*+	LCS and/or LCSD 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

Job ID: 180-146553-1

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	04-30-23
Connecticut	State	PH-0688	09-30-22 *
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	06-30-23
Kansas	NELAP	E-10350	03-31-23
Kentucky (UST)	State	162013	04-30-23
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-22
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	04-30-23
Oregon	NELAP	PA-2151	02-07-23
Pennsylvania	NELAP	02-00416	04-30-23
Rhode Island	State	LAO00362	12-31-22
South Carolina	State	89014	04-20-23
Texas	NELAP	T104704528	03-31-23
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-31-23
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-23

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



Sample Summary

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

Job ID: 180-146553-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-146553-1	APMW-6R	Water	10/19/22 08:24	10/20/22 09:00
180-146553-2	APMW-6D	Water	10/19/22 09:12	10/20/22 09:00
180-146553-3	APMW-5	Water	10/19/22 10:06	10/20/22 09:00
180-146553-4	APMW-5D	Water	10/19/22 11:05	10/20/22 09:00
180-146553-5	APMW-4	Water	10/19/22 12:03	10/20/22 09:00
180-146553-6	DUP-03	Water	10/19/22 09:06	10/20/22 09:00
180-146553-7	EB-03	Water	10/19/22 12:15	10/20/22 09:00
180-146553-8	FB-03	Water	10/19/22 12:25	10/20/22 09:00

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Method Summary

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

Job ID: 180-146553-1

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

EET 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: 180-146553-1

Client Sample ID: APMW-6R

Lab Sample ID: 180-146553-1

Date Collected: 10/19/22 08:24

Matrix: Water

Date Received: 10/20/22 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			415803	10/22/22 06:00	SNL	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		10			415803	10/22/22 06:14	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416282	10/26/22 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416793	10/28/22 17:36	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416282	10/26/22 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		10			416939	11/01/22 15:28	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416094	10/25/22 07:25	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416482	10/27/22 14:14	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	416050	10/24/22 16:21	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-6D

Lab Sample ID: 180-146553-2

Date Collected: 10/19/22 09:12

Matrix: Water

Date Received: 10/20/22 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			415803	10/22/22 06:29	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416282	10/26/22 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416793	10/28/22 17:51	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416094	10/25/22 07:25	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416482	10/27/22 14:17	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	416050	10/24/22 16:21	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-5

Lab Sample ID: 180-146553-3

Date Collected: 10/19/22 10:06

Matrix: Water

Date Received: 10/20/22 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		2.5			415803	10/22/22 06:44	SNL	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		25			415803	10/22/22 06:59	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416282	10/26/22 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416793	10/28/22 17:54	RSK	EET PIT
Instrument ID: A										

Lab Chronicle

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

Job ID: 180-146553-1

Client Sample ID: APMW-5
Date Collected: 10/19/22 10:06
Date Received: 10/20/22 09:00

Lab Sample ID: 180-146553-3
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			25 mL	25 mL	416282	10/26/22 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		2			416939	11/01/22 15:32	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416094	10/25/22 07:25	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416482	10/27/22 14:18	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	416041	10/24/22 14:19	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-5D
Date Collected: 10/19/22 11:05
Date Received: 10/20/22 09:00

Lab Sample ID: 180-146553-4
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		1			415803	10/22/22 04:46	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416282	10/26/22 12:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416793	10/28/22 18:09	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416094	10/25/22 07:25	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416482	10/27/22 14:19	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	416041	10/24/22 14:19	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-4
Date Collected: 10/19/22 12:03
Date Received: 10/20/22 09:00

Lab Sample ID: 180-146553-5
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		1			415803	10/22/22 07:14	SNL	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		10			415803	10/22/22 07:28	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416598	10/28/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416939	11/01/22 23:54	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416094	10/25/22 07:25	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416482	10/27/22 14:21	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	416050	10/24/22 16:21	LWM	EET PIT
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-146553-1

Client Sample ID: DUP-03
Date Collected: 10/19/22 09:06
Date Received: 10/20/22 09:00

Lab Sample ID: 180-146553-6
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		2.5			415803	10/22/22 07:43	SNL	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		25			415803	10/22/22 07:58	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416598	10/28/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416939	11/02/22 00:05	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416598	10/28/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		5			417094	11/02/22 09:28	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416094	10/25/22 07:25	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416482	10/27/22 14:22	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	416050	10/24/22 16:21	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-03
Date Collected: 10/19/22 12:15
Date Received: 10/20/22 09:00

Lab Sample ID: 180-146553-7
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	300.0		1			415803	10/22/22 08:13	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416598	10/28/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416939	11/02/22 00:19	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416094	10/25/22 07:25	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416482	10/27/22 14:23	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	416041	10/24/22 14:19	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-03
Date Collected: 10/19/22 12:25
Date Received: 10/20/22 09:00

Lab Sample ID: 180-146553-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			415803	10/22/22 08:54	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416598	10/28/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416939	11/02/22 00:23	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416094	10/25/22 07:25	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416482	10/27/22 14:24	RJR	EET PIT
Instrument ID: HGY										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-146553-1

Client Sample ID: FB-03
Date Collected: 10/19/22 12:25
Date Received: 10/20/22 09:00

Lab Sample ID: 180-146553-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	416050	10/24/22 16:21	LWM	EET PIT

Laboratory References:

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

Analyst References:

Lab: EET PIT

Batch Type: Prep

HCY = Harrison Yaeger

RJR = Ron Rosenbaum

Batch Type: Analysis

LWM = Leslie McIntire

RJR = Ron Rosenbaum

RSK = Robert Kurtz

SNL = Sean Lordo



Client Sample Results

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

Job ID: 180-146553-1

Client Sample ID: APMW-6R

Lab Sample ID: 180-146553-1

Date Collected: 10/19/22 08:24

Matrix: Water

Date Received: 10/20/22 09:00

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4000		10	7.1	mg/L			10/22/22 06:14	10
Fluoride	0.22		0.20	0.026	mg/L			10/22/22 06:00	1
Sulfate	800		1.0	0.76	mg/L			10/22/22 06:00	1

Method: SW846 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		10/26/22 12:40	10/28/22 17:36	1
Arsenic	0.21		0.0010	0.00028	mg/L		10/26/22 12:40	10/28/22 17:36	1
Barium	0.044		0.010	0.0031	mg/L		10/26/22 12:40	10/28/22 17:36	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/26/22 12:40	10/28/22 17:36	1
Boron	11		0.80	0.60	mg/L		10/26/22 12:40	11/01/22 15:28	10
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/22 12:40	10/28/22 17:36	1
Calcium	400	B	0.50	0.13	mg/L		10/26/22 12:40	10/28/22 17:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/22 12:40	10/28/22 17:36	1
Cobalt	0.0028		0.0025	0.00026	mg/L		10/26/22 12:40	10/28/22 17:36	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/26/22 12:40	10/28/22 17:36	1
Lithium	0.050		0.0050	0.00083	mg/L		10/26/22 12:40	10/28/22 17:36	1
Molybdenum	0.44		0.015	0.00061	mg/L		10/26/22 12:40	10/28/22 17:36	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/26/22 12:40	10/28/22 17:36	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/26/22 12:40	10/28/22 17:36	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	*+	0.00020	0.00013	mg/L		10/25/22 07:25	10/27/22 14:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	7000		100	100	mg/L			10/24/22 16:21	1

Client Sample Results

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

Job ID: 180-146553-1

Client Sample ID: APMW-6D

Lab Sample ID: 180-146553-2

Date Collected: 10/19/22 09:12

Matrix: Water

Date Received: 10/20/22 09:00

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.71	mg/L			10/22/22 06:29	1
Fluoride	0.15	J	0.20	0.026	mg/L			10/22/22 06:29	1
Sulfate	13		1.0	0.76	mg/L			10/22/22 06:29	1

Method: SW846 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		10/26/22 12:40	10/28/22 17:51	1
Arsenic	0.0031		0.0010	0.00028	mg/L		10/26/22 12:40	10/28/22 17:51	1
Barium	0.073		0.010	0.0031	mg/L		10/26/22 12:40	10/28/22 17:51	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/26/22 12:40	10/28/22 17:51	1
Boron	0.13		0.080	0.060	mg/L		10/26/22 12:40	10/28/22 17:51	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/22 12:40	10/28/22 17:51	1
Calcium	6.0	B	0.50	0.13	mg/L		10/26/22 12:40	10/28/22 17:51	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/22 12:40	10/28/22 17:51	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/26/22 12:40	10/28/22 17:51	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/26/22 12:40	10/28/22 17:51	1
Lithium	0.0069		0.0050	0.00083	mg/L		10/26/22 12:40	10/28/22 17:51	1
Molybdenum	0.0019	J	0.015	0.00061	mg/L		10/26/22 12:40	10/28/22 17:51	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/26/22 12:40	10/28/22 17:51	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/26/22 12:40	10/28/22 17:51	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	*+	0.00020	0.00013	mg/L		10/25/22 07:25	10/27/22 14:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	160		10	10	mg/L			10/24/22 16:21	1

Client Sample Results

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

Job ID: 180-146553-1

Client Sample ID: APMW-5

Lab Sample ID: 180-146553-3

Date Collected: 10/19/22 10:06

Matrix: Water

Date Received: 10/20/22 09:00

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8200		25	18	mg/L			10/22/22 06:59	25
Fluoride	0.065	J	0.50	0.065	mg/L			10/22/22 06:44	2.5
Sulfate	810		2.5	1.9	mg/L			10/22/22 06:44	2.5

Method: SW846 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		10/26/22 12:40	10/28/22 17:54	1
Arsenic	0.18		0.0010	0.00028	mg/L		10/26/22 12:40	10/28/22 17:54	1
Barium	0.10		0.010	0.0031	mg/L		10/26/22 12:40	10/28/22 17:54	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/26/22 12:40	10/28/22 17:54	1
Boron	6.5		0.16	0.12	mg/L		10/26/22 12:40	11/01/22 15:32	2
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/22 12:40	10/28/22 17:54	1
Calcium	340	B	0.50	0.13	mg/L		10/26/22 12:40	10/28/22 17:54	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/22 12:40	10/28/22 17:54	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/26/22 12:40	10/28/22 17:54	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/26/22 12:40	10/28/22 17:54	1
Lithium	0.035		0.0050	0.00083	mg/L		10/26/22 12:40	10/28/22 17:54	1
Molybdenum	0.039		0.015	0.00061	mg/L		10/26/22 12:40	10/28/22 17:54	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/26/22 12:40	10/28/22 17:54	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/26/22 12:40	10/28/22 17:54	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	*+	0.00020	0.00013	mg/L		10/25/22 07:25	10/27/22 14:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	13000		200	200	mg/L			10/24/22 14:19	1

Client Sample Results

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

Job ID: 180-146553-1

Client Sample ID: APMW-5D

Lab Sample ID: 180-146553-4

Date Collected: 10/19/22 11:05

Matrix: Water

Date Received: 10/20/22 09:00

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64	F1	1.0	0.71	mg/L			10/22/22 04:46	1
Fluoride	0.12	J	0.20	0.026	mg/L			10/22/22 04:46	1
Sulfate	12		1.0	0.76	mg/L			10/22/22 04:46	1

Method: SW846 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		10/26/22 12:40	10/28/22 18:09	1
Arsenic	0.014		0.0010	0.00028	mg/L		10/26/22 12:40	10/28/22 18:09	1
Barium	0.053		0.010	0.0031	mg/L		10/26/22 12:40	10/28/22 18:09	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/26/22 12:40	10/28/22 18:09	1
Boron	0.14		0.080	0.060	mg/L		10/26/22 12:40	10/28/22 18:09	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/22 12:40	10/28/22 18:09	1
Calcium	3.5	B	0.50	0.13	mg/L		10/26/22 12:40	10/28/22 18:09	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/22 12:40	10/28/22 18:09	1
Cobalt	0.00027	J	0.0025	0.00026	mg/L		10/26/22 12:40	10/28/22 18:09	1
Lead	0.00018	J	0.0010	0.00017	mg/L		10/26/22 12:40	10/28/22 18:09	1
Lithium	0.0077		0.0050	0.00083	mg/L		10/26/22 12:40	10/28/22 18:09	1
Molybdenum	0.0014	J	0.015	0.00061	mg/L		10/26/22 12:40	10/28/22 18:09	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/26/22 12:40	10/28/22 18:09	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/26/22 12:40	10/28/22 18:09	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	*+	0.00020	0.00013	mg/L		10/25/22 07:25	10/27/22 14:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	240		10	10	mg/L			10/24/22 14:19	1

Client Sample Results

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

Job ID: 180-146553-1

Client Sample ID: APMW-4

Lab Sample ID: 180-146553-5

Date Collected: 10/19/22 12:03

Matrix: Water

Date Received: 10/20/22 09:00

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2500		10	7.1	mg/L			10/22/22 07:28	10
Fluoride	0.29		0.20	0.026	mg/L			10/22/22 07:14	1
Sulfate	230		1.0	0.76	mg/L			10/22/22 07:14	1

Method: SW846 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		10/28/22 14:30	11/01/22 23:54	1
Arsenic	0.0073		0.0010	0.00028	mg/L		10/28/22 14:30	11/01/22 23:54	1
Barium	0.23		0.010	0.0031	mg/L		10/28/22 14:30	11/01/22 23:54	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/28/22 14:30	11/01/22 23:54	1
Boron	1.3		0.080	0.060	mg/L		10/28/22 14:30	11/01/22 23:54	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/28/22 14:30	11/01/22 23:54	1
Calcium	140	B	0.50	0.13	mg/L		10/28/22 14:30	11/01/22 23:54	1
Chromium	0.0021		0.0020	0.0015	mg/L		10/28/22 14:30	11/01/22 23:54	1
Cobalt	0.0021	J	0.0025	0.00026	mg/L		10/28/22 14:30	11/01/22 23:54	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/28/22 14:30	11/01/22 23:54	1
Lithium	0.049		0.0050	0.00083	mg/L		10/28/22 14:30	11/01/22 23:54	1
Molybdenum	0.0043	J	0.015	0.00061	mg/L		10/28/22 14:30	11/01/22 23:54	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/28/22 14:30	11/01/22 23:54	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/28/22 14:30	11/01/22 23:54	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	*+	0.00020	0.00013	mg/L		10/25/22 07:25	10/27/22 14:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	5900		50	50	mg/L			10/24/22 16:21	1

Client Sample Results

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

Job ID: 180-146553-1

Client Sample ID: DUP-03

Lab Sample ID: 180-146553-6

Date Collected: 10/19/22 09:06

Matrix: Water

Date Received: 10/20/22 09:00

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8100		25	18	mg/L			10/22/22 07:58	25
Fluoride	0.073	J	0.50	0.065	mg/L			10/22/22 07:43	2.5
Sulfate	800		2.5	1.9	mg/L			10/22/22 07:43	2.5

Method: SW846 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		10/28/22 14:30	11/02/22 00:05	1
Arsenic	0.21		0.0010	0.00028	mg/L		10/28/22 14:30	11/02/22 00:05	1
Barium	0.11		0.010	0.0031	mg/L		10/28/22 14:30	11/02/22 00:05	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/28/22 14:30	11/02/22 00:05	1
Boron	6.4		0.40	0.30	mg/L		10/28/22 14:30	11/02/22 09:28	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/28/22 14:30	11/02/22 00:05	1
Calcium	360	B	0.50	0.13	mg/L		10/28/22 14:30	11/02/22 00:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/28/22 14:30	11/02/22 00:05	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/28/22 14:30	11/02/22 00:05	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/28/22 14:30	11/02/22 00:05	1
Lithium	0.043		0.0050	0.00083	mg/L		10/28/22 14:30	11/02/22 00:05	1
Molybdenum	0.055		0.015	0.00061	mg/L		10/28/22 14:30	11/02/22 00:05	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/28/22 14:30	11/02/22 00:05	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/28/22 14:30	11/02/22 00:05	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	*+	0.00020	0.00013	mg/L		10/25/22 07:25	10/27/22 14:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	13000		200	200	mg/L			10/24/22 16:21	1

Client Sample Results

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

Job ID: 180-146553-1

Client Sample ID: EB-03

Lab Sample ID: 180-146553-7

Date Collected: 10/19/22 12:15

Matrix: Water

Date Received: 10/20/22 09:00

Method: MCAWW 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			10/22/22 08:13	1
Fluoride	<0.026		0.20	0.026	mg/L			10/22/22 08:13	1
Sulfate	<0.76		1.0	0.76	mg/L			10/22/22 08:13	1

Method: SW846 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		10/28/22 14:30	11/02/22 00:19	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		10/28/22 14:30	11/02/22 00:19	1
Barium	<0.0031		0.010	0.0031	mg/L		10/28/22 14:30	11/02/22 00:19	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/28/22 14:30	11/02/22 00:19	1
Boron	<0.060		0.080	0.060	mg/L		10/28/22 14:30	11/02/22 00:19	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/28/22 14:30	11/02/22 00:19	1
Calcium	<0.13		0.50	0.13	mg/L		10/28/22 14:30	11/02/22 00:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/28/22 14:30	11/02/22 00:19	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/28/22 14:30	11/02/22 00:19	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/28/22 14:30	11/02/22 00:19	1
Lithium	<0.00083		0.0050	0.00083	mg/L		10/28/22 14:30	11/02/22 00:19	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/28/22 14:30	11/02/22 00:19	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/28/22 14:30	11/02/22 00:19	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/28/22 14:30	11/02/22 00:19	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	*+	0.00020	0.00013	mg/L		10/25/22 07:25	10/27/22 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			10/24/22 14:19	1

Client Sample Results

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

Job ID: 180-146553-1

Client Sample ID: FB-03

Lab Sample ID: 180-146553-8

Date Collected: 10/19/22 12:25

Matrix: Water

Date Received: 10/20/22 09:00

Method: MCAWW 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			10/22/22 08:54	1
Fluoride	<0.026		0.20	0.026	mg/L			10/22/22 08:54	1
Sulfate	<0.76		1.0	0.76	mg/L			10/22/22 08:54	1

Method: SW846 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		10/28/22 14:30	11/02/22 00:23	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		10/28/22 14:30	11/02/22 00:23	1
Barium	<0.0031		0.010	0.0031	mg/L		10/28/22 14:30	11/02/22 00:23	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/28/22 14:30	11/02/22 00:23	1
Boron	<0.060		0.080	0.060	mg/L		10/28/22 14:30	11/02/22 00:23	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/28/22 14:30	11/02/22 00:23	1
Calcium	<0.13		0.50	0.13	mg/L		10/28/22 14:30	11/02/22 00:23	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/28/22 14:30	11/02/22 00:23	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/28/22 14:30	11/02/22 00:23	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/28/22 14:30	11/02/22 00:23	1
Lithium	<0.00083		0.0050	0.00083	mg/L		10/28/22 14:30	11/02/22 00:23	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/28/22 14:30	11/02/22 00:23	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/28/22 14:30	11/02/22 00:23	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/28/22 14:30	11/02/22 00:23	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	*+	0.00020	0.00013	mg/L		10/25/22 07:25	10/27/22 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			10/24/22 16:21	1

QC Sample Results

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

Job ID: 180-146553-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-415803/44
Matrix: Water
Analysis Batch: 415803

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			10/22/22 00:34	1
Fluoride	<0.026		0.20	0.026	mg/L			10/22/22 00:34	1
Sulfate	<0.76		1.0	0.76	mg/L			10/22/22 00:34	1

Lab Sample ID: LCS 180-415803/45
Matrix: Water
Analysis Batch: 415803

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	48.7		mg/L		97	90 - 110
Fluoride	2.50	2.41		mg/L		96	90 - 110
Sulfate	50.0	45.9		mg/L		92	90 - 110

Lab Sample ID: 180-146553-4 MS
Matrix: Water
Analysis Batch: 415803

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
Chloride	64	F1	50.0	112		mg/L		96	90 - 110
Fluoride	0.12	J	2.50	2.77		mg/L		106	90 - 110
Sulfate	12		50.0	60.9		mg/L		99	90 - 110

Lab Sample ID: 180-146553-4 MSD
Matrix: Water
Analysis Batch: 415803

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
Chloride	64	F1	50.0	107	F1	mg/L		87	90 - 110	4	20
Fluoride	0.12	J	2.50	2.63		mg/L		100	90 - 110	5	20
Sulfate	12		50.0	57.8		mg/L		92	90 - 110	5	20

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

Lab Sample ID: MB 180-416282/1-A
Matrix: Water
Analysis Batch: 416793

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 416282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		10/26/22 12:40	10/28/22 15:19	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		10/26/22 12:40	10/28/22 15:19	1
Barium	<0.0031		0.010	0.0031	mg/L		10/26/22 12:40	10/28/22 15:19	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/26/22 12:40	10/28/22 15:19	1
Boron	<0.060		0.080	0.060	mg/L		10/26/22 12:40	10/28/22 15:19	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/26/22 12:40	10/28/22 15:19	1
Calcium	0.176	J	0.50	0.13	mg/L		10/26/22 12:40	10/28/22 15:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/26/22 12:40	10/28/22 15:19	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/26/22 12:40	10/28/22 15:19	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/26/22 12:40	10/28/22 15:19	1
Lithium	<0.00083		0.0050	0.00083	mg/L		10/26/22 12:40	10/28/22 15:19	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/26/22 12:40	10/28/22 15:19	1

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QC Sample Results

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

Job ID: 180-146553-1

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

Lab Sample ID: MB 180-416282/1-A
Matrix: Water
Analysis Batch: 416793

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 416282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.00074		0.0050	0.00074	mg/L		10/26/22 12:40	10/28/22 15:19	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/26/22 12:40	10/28/22 15:19	1

Lab Sample ID: LCS 180-416282/2-A
Matrix: Water
Analysis Batch: 416793

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 416282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.271		mg/L		108	80 - 120
Arsenic	1.00	0.979		mg/L		98	80 - 120
Barium	1.00	0.988		mg/L		99	80 - 120
Beryllium	0.500	0.503		mg/L		101	80 - 120
Boron	1.25	1.17		mg/L		94	80 - 120
Cadmium	0.500	0.512		mg/L		102	80 - 120
Calcium	25.0	26.9		mg/L		108	80 - 120
Chromium	0.500	0.504		mg/L		101	80 - 120
Cobalt	0.500	0.492		mg/L		98	80 - 120
Lead	0.500	0.509		mg/L		102	80 - 120
Lithium	0.500	0.476		mg/L		95	80 - 120
Molybdenum	0.500	0.503		mg/L		101	80 - 120
Selenium	1.00	0.958		mg/L		96	80 - 120
Thallium	1.00	1.05		mg/L		105	80 - 120

Lab Sample ID: MB 180-416598/1-A
Matrix: Water
Analysis Batch: 416939

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 416598

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		10/28/22 14:30	11/01/22 23:39	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		10/28/22 14:30	11/01/22 23:39	1
Barium	<0.0031		0.010	0.0031	mg/L		10/28/22 14:30	11/01/22 23:39	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/28/22 14:30	11/01/22 23:39	1
Boron	<0.060		0.080	0.060	mg/L		10/28/22 14:30	11/01/22 23:39	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/28/22 14:30	11/01/22 23:39	1
Calcium	0.243	J	0.50	0.13	mg/L		10/28/22 14:30	11/01/22 23:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/28/22 14:30	11/01/22 23:39	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/28/22 14:30	11/01/22 23:39	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/28/22 14:30	11/01/22 23:39	1
Lithium	<0.00083		0.0050	0.00083	mg/L		10/28/22 14:30	11/01/22 23:39	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/28/22 14:30	11/01/22 23:39	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/28/22 14:30	11/01/22 23:39	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/28/22 14:30	11/01/22 23:39	1

Lab Sample ID: LCS 180-416598/2-A
Matrix: Water
Analysis Batch: 416939

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 416598

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.283		mg/L		113	80 - 120

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QC Sample Results

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

Job ID: 180-146553-1

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

Lab Sample ID: LCS 180-416598/2-A
Matrix: Water
Analysis Batch: 416939

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 416598

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	1.08		mg/L		108	80 - 120
Barium	1.00	0.996		mg/L		100	80 - 120
Beryllium	0.500	0.531		mg/L		106	80 - 120
Boron	1.25	1.28		mg/L		102	80 - 120
Cadmium	0.500	0.543		mg/L		109	80 - 120
Calcium	25.0	29.6		mg/L		118	80 - 120
Chromium	0.500	0.538		mg/L		108	80 - 120
Cobalt	0.500	0.546		mg/L		109	80 - 120
Lead	0.500	0.546		mg/L		109	80 - 120
Lithium	0.500	0.501		mg/L		100	80 - 120
Molybdenum	0.500	0.552		mg/L		110	80 - 120
Selenium	1.00	1.07		mg/L		107	80 - 120
Thallium	1.00	1.13		mg/L		113	80 - 120

Lab Sample ID: 180-146553-8 MS
Matrix: Water
Analysis Batch: 416939

Client Sample ID: FB-03
Prep Type: Total Recoverable
Prep Batch: 416598

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00051		0.250	0.276		mg/L		110	75 - 125
Arsenic	<0.00028		1.00	1.05		mg/L		105	75 - 125
Barium	<0.0031		1.00	0.959		mg/L		96	75 - 125
Beryllium	<0.00027		0.500	0.540		mg/L		108	75 - 125
Boron	<0.060		1.25	1.26		mg/L		101	75 - 125
Cadmium	<0.00022		0.500	0.531		mg/L		106	75 - 125
Calcium	<0.13		25.0	28.1		mg/L		112	75 - 125
Chromium	<0.0015		0.500	0.520		mg/L		104	75 - 125
Cobalt	<0.00026		0.500	0.539		mg/L		108	75 - 125
Lead	<0.00017		0.500	0.534		mg/L		107	75 - 125
Lithium	<0.00083		0.500	0.491		mg/L		98	75 - 125
Molybdenum	<0.00061		0.500	0.545		mg/L		109	75 - 125
Selenium	<0.00074		1.00	1.05		mg/L		105	75 - 125
Thallium	<0.00047		1.00	1.11		mg/L		111	75 - 125

Lab Sample ID: 180-146553-8 MSD
Matrix: Water
Analysis Batch: 416939

Client Sample ID: FB-03
Prep Type: Total Recoverable
Prep Batch: 416598

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00051		0.250	0.285		mg/L		114	75 - 125	3	20
Arsenic	<0.00028		1.00	1.06		mg/L		106	75 - 125	1	20
Barium	<0.0031		1.00	0.971		mg/L		97	75 - 125	1	20
Beryllium	<0.00027		0.500	0.543		mg/L		109	75 - 125	1	20
Boron	<0.060		1.25	1.28		mg/L		102	75 - 125	2	20
Cadmium	<0.00022		0.500	0.537		mg/L		107	75 - 125	1	20
Calcium	<0.13		25.0	28.8		mg/L		115	75 - 125	3	20
Chromium	<0.0015		0.500	0.532		mg/L		106	75 - 125	2	20
Cobalt	<0.00026		0.500	0.544		mg/L		109	75 - 125	1	20
Lead	<0.00017		0.500	0.543		mg/L		109	75 - 125	2	20

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QC Sample Results

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

Job ID: 180-146553-1

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

Lab Sample ID: 180-146553-8 MSD
Matrix: Water
Analysis Batch: 416939

Client Sample ID: FB-03
Prep Type: Total Recoverable
Prep Batch: 416598

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	<0.00083		0.500	0.494		mg/L		99	75 - 125	1	20
Molybdenum	<0.00061		0.500	0.547		mg/L		109	75 - 125	0	20
Selenium	<0.00074		1.00	1.06		mg/L		106	75 - 125	1	20
Thallium	<0.00047		1.00	1.13		mg/L		113	75 - 125	2	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-416094/1-A
Matrix: Water
Analysis Batch: 416482

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 416094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/25/22 07:25	10/27/22 13:55	1

Lab Sample ID: LCS 180-416094/2-A
Matrix: Water
Analysis Batch: 416482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 416094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00305	*+	mg/L		122	80 - 120

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

Lab Sample ID: MB 180-416041/1
Matrix: Water
Analysis Batch: 416041

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			10/24/22 14:19	1

Lab Sample ID: LCS 180-416041/2
Matrix: Water
Analysis Batch: 416041

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	388	388		mg/L		100	85 - 115

Lab Sample ID: MB 180-416050/1
Matrix: Water
Analysis Batch: 416050

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			10/24/22 16:21	1

Lab Sample ID: LCS 180-416050/2
Matrix: Water
Analysis Batch: 416050

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	388	356		mg/L		92	85 - 115

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QC Sample Results

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

Job ID: 180-146553-1

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

Lab Sample ID: 180-146553-8 DU
Matrix: Water
Analysis Batch: 416050

Client Sample ID: FB-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	<10		<10		mg/L		NC	10

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QC Association Summary

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

Job ID: 180-146553-1

HPLC/IC

Analysis Batch: 415803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146553-1	APMW-6R	Total/NA	Water	300.0	
180-146553-1	APMW-6R	Total/NA	Water	300.0	
180-146553-2	APMW-6D	Total/NA	Water	300.0	
180-146553-3	APMW-5	Total/NA	Water	300.0	
180-146553-3	APMW-5	Total/NA	Water	300.0	
180-146553-4	APMW-5D	Total/NA	Water	300.0	
180-146553-5	APMW-4	Total/NA	Water	300.0	
180-146553-5	APMW-4	Total/NA	Water	300.0	
180-146553-6	DUP-03	Total/NA	Water	300.0	
180-146553-6	DUP-03	Total/NA	Water	300.0	
180-146553-7	EB-03	Total/NA	Water	300.0	
180-146553-8	FB-03	Total/NA	Water	300.0	
MB 180-415803/44	Method Blank	Total/NA	Water	300.0	
LCS 180-415803/45	Lab Control Sample	Total/NA	Water	300.0	
180-146553-4 MS	APMW-5D	Total/NA	Water	300.0	
180-146553-4 MSD	APMW-5D	Total/NA	Water	300.0	

Metals

Prep Batch: 416094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146553-1	APMW-6R	Total/NA	Water	7470A	
180-146553-2	APMW-6D	Total/NA	Water	7470A	
180-146553-3	APMW-5	Total/NA	Water	7470A	
180-146553-4	APMW-5D	Total/NA	Water	7470A	
180-146553-5	APMW-4	Total/NA	Water	7470A	
180-146553-6	DUP-03	Total/NA	Water	7470A	
180-146553-7	EB-03	Total/NA	Water	7470A	
180-146553-8	FB-03	Total/NA	Water	7470A	
MB 180-416094/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-416094/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 416282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146553-1	APMW-6R	Total Recoverable	Water	3005A	
180-146553-2	APMW-6D	Total Recoverable	Water	3005A	
180-146553-3	APMW-5	Total Recoverable	Water	3005A	
180-146553-4	APMW-5D	Total Recoverable	Water	3005A	
MB 180-416282/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-416282/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 416482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146553-1	APMW-6R	Total/NA	Water	EPA 7470A	416094
180-146553-2	APMW-6D	Total/NA	Water	EPA 7470A	416094
180-146553-3	APMW-5	Total/NA	Water	EPA 7470A	416094
180-146553-4	APMW-5D	Total/NA	Water	EPA 7470A	416094
180-146553-5	APMW-4	Total/NA	Water	EPA 7470A	416094
180-146553-6	DUP-03	Total/NA	Water	EPA 7470A	416094
180-146553-7	EB-03	Total/NA	Water	EPA 7470A	416094
180-146553-8	FB-03	Total/NA	Water	EPA 7470A	416094

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QC Association Summary

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

Job ID: 180-146553-1

Metals (Continued)

Analysis Batch: 416482 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-416094/1-A	Method Blank	Total/NA	Water	EPA 7470A	416094
LCS 180-416094/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	416094

Prep Batch: 416598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146553-5	APMW-4	Total Recoverable	Water	3005A	
180-146553-6	DUP-03	Total Recoverable	Water	3005A	
180-146553-7	EB-03	Total Recoverable	Water	3005A	
180-146553-8	FB-03	Total Recoverable	Water	3005A	
MB 180-416598/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-416598/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-146553-8 MS	FB-03	Total Recoverable	Water	3005A	
180-146553-8 MSD	FB-03	Total Recoverable	Water	3005A	

Analysis Batch: 416793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146553-1	APMW-6R	Total Recoverable	Water	EPA 6020B	416282
180-146553-2	APMW-6D	Total Recoverable	Water	EPA 6020B	416282
180-146553-3	APMW-5	Total Recoverable	Water	EPA 6020B	416282
180-146553-4	APMW-5D	Total Recoverable	Water	EPA 6020B	416282
MB 180-416282/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	416282
LCS 180-416282/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	416282

Analysis Batch: 416939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146553-1	APMW-6R	Total Recoverable	Water	EPA 6020B	416282
180-146553-3	APMW-5	Total Recoverable	Water	EPA 6020B	416282
180-146553-5	APMW-4	Total Recoverable	Water	EPA 6020B	416598
180-146553-6	DUP-03	Total Recoverable	Water	EPA 6020B	416598
180-146553-7	EB-03	Total Recoverable	Water	EPA 6020B	416598
180-146553-8	FB-03	Total Recoverable	Water	EPA 6020B	416598
MB 180-416598/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	416598
LCS 180-416598/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	416598
180-146553-8 MS	FB-03	Total Recoverable	Water	EPA 6020B	416598
180-146553-8 MSD	FB-03	Total Recoverable	Water	EPA 6020B	416598

Analysis Batch: 417094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146553-6	DUP-03	Total Recoverable	Water	EPA 6020B	416598

General Chemistry

Analysis Batch: 416041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146553-3	APMW-5	Total/NA	Water	SM 2540C	
180-146553-4	APMW-5D	Total/NA	Water	SM 2540C	
180-146553-7	EB-03	Total/NA	Water	SM 2540C	
MB 180-416041/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-416041/2	Lab Control Sample	Total/NA	Water	SM 2540C	

QC Association Summary

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

Job ID: 180-146553-1

General Chemistry

Analysis Batch: 416050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146553-1	APMW-6R	Total/NA	Water	SM 2540C	
180-146553-2	APMW-6D	Total/NA	Water	SM 2540C	
180-146553-5	APMW-4	Total/NA	Water	SM 2540C	
180-146553-6	DUP-03	Total/NA	Water	SM 2540C	
180-146553-8	FB-03	Total/NA	Water	SM 2540C	
MB 180-416050/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-416050/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-146553-8 DU	FB-03	Total/NA	Water	SM 2540C	

Client Information		Lab P/W: Brown, Shall		Carrier Tracking No(s):	
Client Contact: SCS Contacts		Phone: 550 350 3458		Page:	
Company: SCS		E-Mail: shall.brown@eurofins.com		Job #:	
Address: 3535 Colonnade Pkwy Bin S 530 EC		Due Date Requested:		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 Other:	
State, Zip: AL, 35243		PO #:		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)	
Phone: 205-992-6283		WO #:		Special Instructions/Note:	
Email:		Project #:		180-146553 Chain of Custody	
SCS Contacts: Plant Watson		SSOW#:		Barcode	
Site: Ash Pond		Project Name:		180-146553 Chain of Custody	
Sample Identification		Sample Date		Special Instructions/Note:	
APMW-GR	10/19/22	0824	G	WARC	
APMW-6D		0912			
APMW-5		1006			
APMW 5D		1105			
APMW 4		1203			
Dup-03		0906			
EB-03		1215			
FB-03	10/19/22	1225	G	WATER	
Analysis Requested		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=water/soil, BT=Tissue, A=Air)	
2540C Total Dissolved Solids	X				
300_28Day Chloride Fluoride Sulfate	X				
6020B/7470 Custom 14 (Appl/APPV) + Mercury	X				
9315_Ra226 Radium 226	X				
9320_Ra228 Radium 228	X				
Combined RAD	X				
Possible Hazard Identification		Sample Time		Preservation Code	
<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		Date		Date	
Deliverable Requested: I, II, III, IV, Other (specify)		Date: 10/19/22		Date: 10/19/22	
Empty Kit Relinquished by:		Date:		Date:	
Relinquished by: [Signature]		Date: 10/19/22		Date: 10/19/22	
Relinquished by:		Date:		Date:	
Relinquished by:		Date:		Date:	
Custody Seals Intact: A Yes Δ No		Custody Seal No.:		Custody Seal No.:	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:	
Method of Shipment:		Received by: [Signature]		Received by: [Signature]	
Date/Time: 10-20-22 9:00		Date/Time: 10-20-22 9:00		Date/Time: 10-20-22 9:00	
Company: [Signature]		Company: [Signature]		Company: [Signature]	
Company: [Signature]		Company: [Signature]		Company: [Signature]	
Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:	

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THE LEADER IN ENVIRONMENTAL

ORIGIN ID: GTYA (850) 336-0192
 RICK HAGENDORFER
 RDH SAMPLING
 10998A COUNTY ROAD 97

SHIP DATE: 13OCT22
 ACTWGT: 50.00 LB MAN
 CAD: 0129689/CAFE3511

ELBERTA, AL 36530
 UNITED STATES US

TO

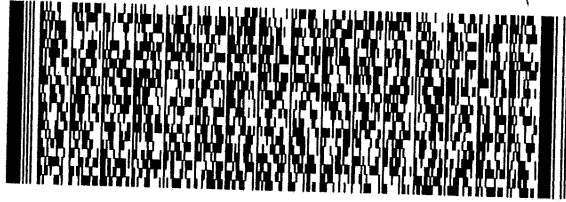
TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238-2907

(412) 983-7068
 INU:
 PO:

REF:

DEPT:

RMA: [Barcode]



570CJ/AC5F/6F4D



FedEx
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 0221

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PRIORITY OVERNIGHT

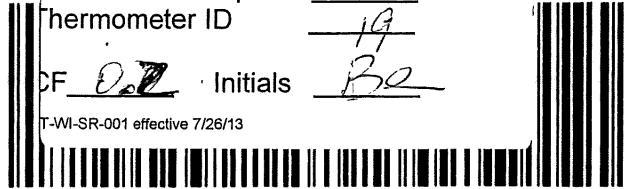
XN AGCA

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PA-US PITTSBURGH

Uncorrected temp 20.6 °C
 thermometer ID 19
 CF DL Initials BE

T-WI-SR-001 effective 7/26/13



EXP 01/23

Svcs: Ph...

1100A

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

34/MTW/EXP 09/23

ORIGIN ID:GTYA (850) 396-0192
RICK HAGENDORFER
RDH SAMPLING
10898A COUNTY ROAD 97

SHIP DATE: 19OCT22
ACTWGT: 50.00 LB MAN
CAD: 0129689/CAFE3511

ELBERTA, AL 36530
UNITED STATES US

TO

TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA

(412) 863-7058
THU:
PO:

REF

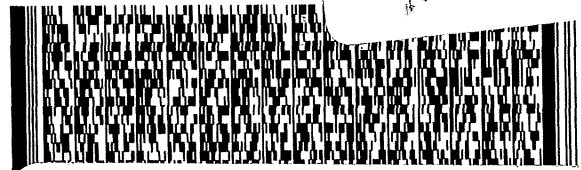
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RMA: 000000



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FedEx

TRK# 5881 4550 7774
0221

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PRIORITY OVERNIGHT

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PT-WI-SR-001 effective

Uncorrected temp

2.6 °C

Uncorrected temp
thermometer ID

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CF 002 Initials

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PT-WI-SR-001 effective 7/26/13

PA-US

15238

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570C1/AC5F/8F4D
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Svcs: PRIORITY OVERNIGHT Master 5881 4550 7706
TRCK: 5881 4550 7720

Part # 159469-434 MTW EXP 09/23

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID: GTYA (850) 336-0192
RICK HAGENDORFER
RDH SAMPLING
10998A COUNTY ROAD 97
ELBERTA, AL 36530
UNITED STATES US

SHIP DATE: 13OCT22
ACTWT: 50.00 LB MAN
CAD: 0129689/CAFE3511

TO

TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238-2907

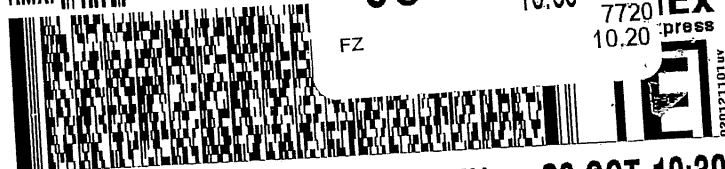
(412) 863-7058
THU: REF
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RMA: ||| ||| ||| |||

RT 98

1 10:30

A IEx
7720 :press
10.20



FedEx
TRK# 5881 4550 7720
0221

THU - 20 OCT 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PI

Uncorrected temp
thermometer ID

2.5°C
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Be

DF 0.2 Initials



TestAmerica

THE LEADER IN ENVIRONMENTAL

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HMTW EXP 06/23
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7708
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RT 98

ORIGIN ID:GTVA (850) 336-0192
RICK HAGENDORFER
RDH SAMPLING
10998A COUNTY ROAD 97

130CT22
50.00 LB MAN
29689/CAFE3511

ELBERTA, AL 36530
UNITED STATES US

TO

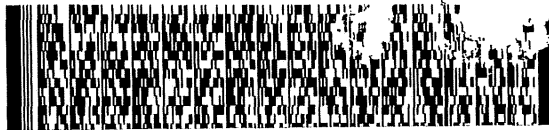
TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238-2907

(412) 983-7058

REF:

DEPT:

RMA: ||| ||| |||



FedEx
Express



FedEx

TRK# 5881 4550 7708
0221

THU - 20 OCT 10:30A
PRIORITY OVERNIGHT

XN AG

CF

Initials

PT-WI-SR-001 effective 7/26/13

Uncorrected temp

°C

Uncorrected temp

20.6 °C

Thermometer ID

19

CF 02

Initials

BC

PT-WI-SR-001 effective 7/26/13

04573711 10/19 581J1/ACSF/FE2D

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-146553-1

Login Number: 146553

List Number: 1

Creator: Abernathy, Eric L

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****PREPARED FOR**

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

Generated 11/23/2022 4:57:21 PM

JOB DESCRIPTION

Plant Watson Ash Pond

JOB NUMBER

180-146553-2



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	11
QC Sample Results	19
QC Association Summary	22
Chain of Custody	23
Receipt Checklists	29
Appendix	31

Case Narrative

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

Job ID: 180-146553-2

Job ID: 180-146553-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-146553-2

Receipt

The samples were received on 10/20/2022 9:00 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 time was 2.8°C

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 batch 587651 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-6R (180-146553-1), APMW-6D (180-146553-2), APMW-5 (180-146553-3), APMW-5D (180-146553-4), APMW-4 (180-146553-5), DUP-03 (180-146553-6), EB-03 (180-146553-7), FB-03 (180-146553-8), (LCS 160-587651/2-A), (MB 160-587651/1-A) and (180-146553-B-1-A DU)

Method 9320_Ra228: Radium-228 batch 587658 The method blank (MB) has activity above the MDC and RL. The following associated samples are either below the reporting limit for the contaminant or exhibit concentrations greater than five (5) times the concentrations observed in the MB), therefore, re-analysis is not required. The data have been reported. (MB 160-587658/1-A)

Method 9320_Ra228: Radium-228 batch 587658 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-6R (180-146553-1), APMW-6D (180-146553-2), APMW-5D (180-146553-4), EB-03 (180-146553-7), FB-03 (180-146553-8), (LCS 160-587658/2-A) and (MB 160-587658/1-A)

Method 9320_Ra228: Radium 228 batch 587658 The MB had activity >RL. The associated sample did not have activity <RL or >5X the MB. Re-extract could not be performed due to limited sample volume therefore the original result will be reported. The client should take this into consideration when evaluating the data. APMW-6R (180-146553-1)

Method 9320_Ra228: Radium-228 Prep Batch 160-590544 The following sample was prepared at a reduced aliquot due to Matrix: APMW-4 (180-146553-5). 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 590544 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-5 (180-146553-3), APMW-4 (180-146553-5), DUP-03 (180-146553-6), (LCS 160-590544/2-A), (LCSD 160-590544/3-A) and (MB 160-590544/1-A)

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

Rad

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

Definitions/Glossary

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

Job ID: 180-146553-2

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: 180-146553-2

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	06-30-23
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-23
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	12-31-22

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

Eurofins Pittsburgh

Sample Summary

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

Job ID: 180-146553-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-146553-1	APMW-6R	Water	10/19/22 08:24	10/20/22 09:00
180-146553-2	APMW-6D	Water	10/19/22 09:12	10/20/22 09:00
180-146553-3	APMW-5	Water	10/19/22 10:06	10/20/22 09:00
180-146553-4	APMW-5D	Water	10/19/22 11:05	10/20/22 09:00
180-146553-5	APMW-4	Water	10/19/22 12:03	10/20/22 09:00
180-146553-6	DUP-03	Water	10/19/22 09:06	10/20/22 09:00
180-146553-7	EB-03	Water	10/19/22 12:15	10/20/22 09:00
180-146553-8	FB-03	Water	10/19/22 12:25	10/20/22 09:00

- 1
- 2
- 3
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- 5
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- 11
- 12
- 13
- 14

Method Summary

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

Job ID: 180-146553-2

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

Protocol References:

None = None

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

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

Laboratory References:

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

Lab Chronicle

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

Job ID: 180-146553-2

Client Sample ID: APMW-6R

Lab Sample ID: 180-146553-1

Date Collected: 10/19/22 08:24

Matrix: Water

Date Received: 10/20/22 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			991.03 mL	1.0 g	587651	10/28/22 11:09	BMP	EET SL
Total/NA	Analysis	9315		1			590886	11/21/22 10:51	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			991.03 mL	1.0 g	587658	10/28/22 12:32	BMP	EET SL
Total/NA	Analysis	9320		1			590346	11/16/22 11:46	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			591203	11/23/22 16:28	CAH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-6D

Lab Sample ID: 180-146553-2

Date Collected: 10/19/22 09:12

Matrix: Water

Date Received: 10/20/22 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			992.55 mL	1.0 g	587651	10/28/22 11:09	BMP	EET SL
Total/NA	Analysis	9315		1			590886	11/21/22 10:51	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			992.55 mL	1.0 g	587658	10/28/22 12:32	BMP	EET SL
Total/NA	Analysis	9320		1			590346	11/16/22 11:46	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			591203	11/23/22 16:28	CAH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-5

Lab Sample ID: 180-146553-3

Date Collected: 10/19/22 10:06

Matrix: Water

Date Received: 10/20/22 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			998.91 mL	1.0 g	587651	10/28/22 11:09	BMP	EET SL
Total/NA	Analysis	9315		1			590886	11/21/22 10:51	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.83 mL	1.0 g	590544	11/18/22 08:22	DJP	EET SL
Total/NA	Analysis	9320		1			591199	11/23/22 13:30	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			591203	11/23/22 16:28	CAH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-5D

Lab Sample ID: 180-146553-4

Date Collected: 10/19/22 11:05

Matrix: Water

Date Received: 10/20/22 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			1009.80 mL	1.0 g	587651	10/28/22 11:09	BMP	EET SL
Total/NA	Analysis	9315		1			590886	11/21/22 10:51	FLC	EET SL
Instrument ID: GFPCRED										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-146553-2

Client Sample ID: APMW-5D

Lab Sample ID: 180-146553-4

Date Collected: 10/19/22 11:05

Matrix: Water

Date Received: 10/20/22 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_0			1009.80 mL	1.0 g	587658	10/28/22 12:32	BMP	EET SL
Total/NA	Analysis	9320		1			590346	11/16/22 11:49	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			591203	11/23/22 16:28	CAH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-4

Lab Sample ID: 180-146553-5

Date Collected: 10/19/22 12:03

Matrix: Water

Date Received: 10/20/22 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			747.38 mL	1.0 g	587651	10/28/22 11:09	BMP	EET SL
Total/NA	Analysis	9315		1			590886	11/21/22 10:52	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			751.70 mL	1.0 g	590544	11/18/22 08:22	DJP	EET SL
Total/NA	Analysis	9320		1			591199	11/23/22 13:30	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			591203	11/23/22 16:28	CAH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-03

Lab Sample ID: 180-146553-6

Date Collected: 10/19/22 09:06

Matrix: Water

Date Received: 10/20/22 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			998.06 mL	1.0 g	587651	10/28/22 11:09	BMP	EET SL
Total/NA	Analysis	9315		1			590886	11/21/22 10:52	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1003.58 mL	1.0 g	590544	11/18/22 08:22	DJP	EET SL
Total/NA	Analysis	9320		1			591199	11/23/22 13:30	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			591203	11/23/22 16:28	CAH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-03

Lab Sample ID: 180-146553-7

Date Collected: 10/19/22 12:15

Matrix: Water

Date Received: 10/20/22 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			1000.99 mL	1.0 g	587651	10/28/22 11:09	BMP	EET SL
Total/NA	Analysis	9315		1			590886	11/21/22 10:53	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.99 mL	1.0 g	587658	10/28/22 12:32	BMP	EET SL
Total/NA	Analysis	9320		1			590346	11/16/22 11:49	SCB	EET SL
Instrument ID: GFPCRED										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-146553-2

Client Sample ID: EB-03
Date Collected: 10/19/22 12:15
Date Received: 10/20/22 09:00

Lab Sample ID: 180-146553-7
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			591203	11/23/22 16:28	CAH	EET SL

Client Sample ID: FB-03
Date Collected: 10/19/22 12:25
Date Received: 10/20/22 09:00

Lab Sample ID: 180-146553-8
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			1002.29 mL	1.0 g	587651	10/28/22 11:09	BMP	EET SL
Total/NA	Analysis	9315		1			590886	11/21/22 10:53	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1002.29 mL	1.0 g	587658	10/28/22 12:32	BMP	EET SL
Total/NA	Analysis	9320		1			590347	11/16/22 11:51	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			591203	11/23/22 16:28	CAH	EET SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: EET SL

Batch Type: Prep

BMP = Bailey Pinette

DJP = Dalton Pieper

Batch Type: Analysis

CAH = Chris Hough

FLC = Fernando Cruz

SCB = Sarah Bernsen

Client Sample Results

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

Job ID: 180-146553-2

Client Sample ID: APMW-6R

Lab Sample ID: 180-146553-1

Date Collected: 10/19/22 08:24

Matrix: Water

Date Received: 10/20/22 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.384		0.127	0.131	1.00	0.113	pCi/L	10/28/22 11:09	11/21/22 10:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					10/28/22 11:09	11/21/22 10:51	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.07		0.569	0.635	1.00	0.491	pCi/L	10/28/22 12:32	11/16/22 11:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					10/28/22 12:32	11/16/22 11:46	1
Y Carrier	82.2		40 - 110					10/28/22 12:32	11/16/22 11:46	1

Method: TAL-STL 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	3.45		0.583	0.648	5.00	0.491	pCi/L		11/23/22 16:28	1

Client Sample Results

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

Job ID: 180-146553-2

Client Sample ID: APMW-6D

Lab Sample ID: 180-146553-2

Date Collected: 10/19/22 09:12

Matrix: Water

Date Received: 10/20/22 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.326		0.130	0.133	1.00	0.141	pCi/L	10/28/22 11:09	11/21/22 10:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					10/28/22 11:09	11/21/22 10:51	1

Method: SW846 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	0.336	0.338	1.00	0.533	pCi/L	10/28/22 12:32	11/16/22 11:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					10/28/22 12:32	11/16/22 11:46	1
Y Carrier	86.4		40 - 110					10/28/22 12:32	11/16/22 11:46	1

Method: TAL-STL 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	0.700		0.360	0.363	5.00	0.533	pCi/L		11/23/22 16:28	1

Client Sample Results

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

Job ID: 180-146553-2

Client Sample ID: APMW-5

Lab Sample ID: 180-146553-3

Date Collected: 10/19/22 10:06

Matrix: Water

Date Received: 10/20/22 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.518		0.149	0.156	1.00	0.119	pCi/L	10/28/22 11:09	11/21/22 10:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		40 - 110					10/28/22 11:09	11/21/22 10:51	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.73		0.674	0.756	1.00	0.604	pCi/L	11/18/22 08:22	11/23/22 13:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		40 - 110					11/18/22 08:22	11/23/22 13:30	1
Y Carrier	86.0		40 - 110					11/18/22 08:22	11/23/22 13:30	1

Method: TAL-STL 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	4.24		0.690	0.772	5.00	0.604	pCi/L		11/23/22 16:28	1

Client Sample Results

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

Job ID: 180-146553-2

Client Sample ID: APMW-5D

Lab Sample ID: 180-146553-4

Date Collected: 10/19/22 11:05

Matrix: Water

Date Received: 10/20/22 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.270		0.113	0.116	1.00	0.114	pCi/L	10/28/22 11:09	11/21/22 10:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		40 - 110					10/28/22 11:09	11/21/22 10:51	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0108	U	0.302	0.302	1.00	0.564	pCi/L	10/28/22 12:32	11/16/22 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		40 - 110					10/28/22 12:32	11/16/22 11:49	1
Y Carrier	84.9		40 - 110					10/28/22 12:32	11/16/22 11:49	1

Method: TAL-STL 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	0.259	U	0.322	0.324	5.00	0.564	pCi/L		11/23/22 16:28	1

Client Sample Results

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

Job ID: 180-146553-2

Client Sample ID: APMW-4
 Date Collected: 10/19/22 12:03
 Date Received: 10/20/22 09:00

Lab Sample ID: 180-146553-5
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.696		0.212	0.221	1.00	0.219	pCi/L	10/28/22 11:09	11/21/22 10:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					10/28/22 11:09	11/21/22 10:52	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.918		0.578	0.584	1.00	0.848	pCi/L	11/18/22 08:22	11/23/22 13:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.5		40 - 110					11/18/22 08:22	11/23/22 13:30	1
Y Carrier	82.2		40 - 110					11/18/22 08:22	11/23/22 13:30	1

Method: TAL-STL 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	1.61		0.616	0.624	5.00	0.848	pCi/L		11/23/22 16:28	1

Client Sample Results

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

Job ID: 180-146553-2

Client Sample ID: DUP-03
 Date Collected: 10/19/22 09:06
 Date Received: 10/20/22 09:00

Lab Sample ID: 180-146553-6
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.646		0.171	0.181	1.00	0.155	pCi/L	10/28/22 11:09	11/21/22 10:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		40 - 110					10/28/22 11:09	11/21/22 10:52	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.45		0.625	0.701	1.00	0.507	pCi/L	11/18/22 08:22	11/23/22 13:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		40 - 110					11/18/22 08:22	11/23/22 13:30	1
Y Carrier	84.9		40 - 110					11/18/22 08:22	11/23/22 13:30	1

Method: TAL-STL 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	4.09		0.648	0.724	5.00	0.507	pCi/L		11/23/22 16:28	1

Client Sample Results

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

Job ID: 180-146553-2

Client Sample ID: EB-03

Lab Sample ID: 180-146553-7

Date Collected: 10/19/22 12:15

Matrix: Water

Date Received: 10/20/22 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.193		0.0993	0.101	1.00	0.116	pCi/L	10/28/22 11:09	11/21/22 10:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					10/28/22 11:09	11/21/22 10:53	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.853		0.383	0.391	1.00	0.511	pCi/L	10/28/22 12:32	11/16/22 11:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					10/28/22 12:32	11/16/22 11:49	1
Y Carrier	86.4		40 - 110					10/28/22 12:32	11/16/22 11:49	1

Method: TAL-STL 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	1.05		0.396	0.404	5.00	0.511	pCi/L		11/23/22 16:28	1

Client Sample Results

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

Job ID: 180-146553-2

Client Sample ID: FB-03

Lab Sample ID: 180-146553-8

Date Collected: 10/19/22 12:25

Matrix: Water

Date Received: 10/20/22 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.221		0.0984	0.100	1.00	0.100	pCi/L	10/28/22 11:09	11/21/22 10:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.1		40 - 110					10/28/22 11:09	11/21/22 10:53	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.793		0.361	0.368	1.00	0.478	pCi/L	10/28/22 12:32	11/16/22 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.1		40 - 110					10/28/22 12:32	11/16/22 11:51	1
Y Carrier	84.5		40 - 110					10/28/22 12:32	11/16/22 11:51	1

Method: TAL-STL 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	1.01		0.374	0.381	5.00	0.478	pCi/L		11/23/22 16:28	1

QC Sample Results

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

Job ID: 180-146553-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-587651/1-A
Matrix: Water
Analysis Batch: 590886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 587651

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.2293		0.107	0.109	1.00	0.123	pCi/L	10/28/22 11:09	11/21/22 10:50	1
Carrier	MB	MB	Limits			Prepared	Analyzed		Dil Fac	
Ba Carrier	%Yield	Qualifier	40 - 110			10/28/22 11:09	11/21/22 10:50		1	
	96.6									

Lab Sample ID: LCS 160-587651/2-A
Matrix: Water
Analysis Batch: 590886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 587651

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.93		1.17	1.00	0.0977	pCi/L	96	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	40 - 110						
	97.8								

Lab Sample ID: 180-146553-1 DU
Matrix: Water
Analysis Batch: 590886

Client Sample ID: APMW-6R
Prep Type: Total/NA
Prep Batch: 587651

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.384		0.4763		0.149	1.00	0.119	pCi/L	0.33	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	94.4									

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-587658/1-A
Matrix: Water
Analysis Batch: 590346

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 587658

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	1.111		0.372	0.385	1.00	0.429	pCi/L	10/28/22 12:32	11/16/22 11:46	1
Carrier	MB	MB	Limits			Prepared	Analyzed		Dil Fac	
Ba Carrier	%Yield	Qualifier	40 - 110			10/28/22 12:32	11/16/22 11:46		1	
Y Carrier	87.9		40 - 110			10/28/22 12:32	11/16/22 11:46		1	

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QC Sample Results

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

Job ID: 180-146553-2

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

Lab Sample ID: LCS 160-587658/2-A
Matrix: Water
Analysis Batch: 590346

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 587658

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									75	125
Radium-228	8.44	10.41		1.34	1.00	0.488	pCi/L	123	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	97.8		40 - 110							
Y Carrier	88.2		40 - 110							

Lab Sample ID: 180-146553-1 DU
Matrix: Water
Analysis Batch: 590346

Client Sample ID: APMW-6R
Prep Type: Total/NA
Prep Batch: 587658

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
										1
Radium-228	3.07		2.851		0.599	1.00	0.438	pCi/L	0.18	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	94.4		40 - 110							
Y Carrier	86.4		40 - 110							

Lab Sample ID: MB 160-590544/1-A
Matrix: Water
Analysis Batch: 591199

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 590544

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
										1
Radium-228	0.1115	U	0.295	0.295	1.00	0.521	pCi/L	11/18/22 08:22	11/23/22 13:28	1
MB MB										
Carrier	%Yield	Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	97.6		40 - 110		11/18/22 08:22	11/23/22 13:28	1			
Y Carrier	85.6		40 - 110		11/18/22 08:22	11/23/22 13:28	1			

Lab Sample ID: LCS 160-590544/2-A
Matrix: Water
Analysis Batch: 591199

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 590544

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									75	125
Radium-228	8.42	8.987		1.22	1.00	0.486	pCi/L	107	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	97.3		40 - 110							
Y Carrier	87.5		40 - 110							

QC Sample Results

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

Job ID: 180-146553-2

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

Lab Sample ID: LCSD 160-590544/3-A
Matrix: Water
Analysis Batch: 591199

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 590544

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	8.42	9.176		1.25	1.00	0.466	pCi/L	109	75 - 125	0.08	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	95.9		40 - 110
Y Carrier	84.9		40 - 110

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QC Association Summary

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

Job ID: 180-146553-2

Rad

Prep Batch: 587651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146553-1	APMW-6R	Total/NA	Water	PrecSep-21	
180-146553-2	APMW-6D	Total/NA	Water	PrecSep-21	
180-146553-3	APMW-5	Total/NA	Water	PrecSep-21	
180-146553-4	APMW-5D	Total/NA	Water	PrecSep-21	
180-146553-5	APMW-4	Total/NA	Water	PrecSep-21	
180-146553-6	DUP-03	Total/NA	Water	PrecSep-21	
180-146553-7	EB-03	Total/NA	Water	PrecSep-21	
180-146553-8	FB-03	Total/NA	Water	PrecSep-21	
MB 160-587651/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-587651/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
180-146553-1 DU	APMW-6R	Total/NA	Water	PrecSep-21	

Prep Batch: 587658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146553-1	APMW-6R	Total/NA	Water	PrecSep_0	
180-146553-2	APMW-6D	Total/NA	Water	PrecSep_0	
180-146553-4	APMW-5D	Total/NA	Water	PrecSep_0	
180-146553-7	EB-03	Total/NA	Water	PrecSep_0	
180-146553-8	FB-03	Total/NA	Water	PrecSep_0	
MB 160-587658/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-587658/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
180-146553-1 DU	APMW-6R	Total/NA	Water	PrecSep_0	

Prep Batch: 590544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146553-3	APMW-5	Total/NA	Water	PrecSep_0	
180-146553-5	APMW-4	Total/NA	Water	PrecSep_0	
180-146553-6	DUP-03	Total/NA	Water	PrecSep_0	
MB 160-590544/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-590544/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-590544/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Client Information		Lab PIV: Brown, Shall		Carrier Tracking No(s):		
Client Contact: SCS Contacts		Phone: 550 350 3458		Page:		
Company: SCS		E-Mail: shall.brown@eurofins.com		Job #:		
Address: 3535 Colonnade Pkwy Bin S 530 EC		Due Date Requested:		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 Other:		
State, Zip: AL, 35243		PO #:		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)		
Phone: 205-992-6283		WO #:		Special Instructions/Note:		
Email:		Project #:		180-146553 Chain of Custody		
SCS Contacts: Plant Watson		SSOW#:		Barcode		
Site: Ash Pond		Sample Identification		180-146553 Chain of Custody		
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/soil, BT=Tissue, A=Air)	Analysis Requested	Special Instructions/Note
APMW-GR	10/19/22	0824	G	WATER	2540C Total Dissolved Solids	
APMW-6D		0912			300_28Day Chloride Fluoride Sulfate	
APMW-5		1006			6020B/7470 Custom 14 (Appl/APPV) + Mercury	
APMW 5D		1105			9315_Ra226 Radium 226	
APMW 4		1203			9320_Ra228 Radium 228	
Dup-03		0906			Combined RAD	
EB-03		1215				
FB-03	10/19/22	1225	G	WATER		

THE LEADER IN ENVIRONMENTAL

ORIGIN ID: GTYA (850) 336-0192
RICK HAGENDORFER
RDH SAMPLING
10998A COUNTY ROAD 97

SHIP DATE: 13OCT22
ACTWGT: 50.00 LB MAN
CAD: 0129689/CAFE3511

ELBERTA, AL 36530
UNITED STATES US


TO

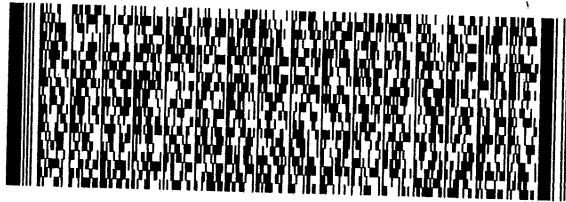
TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238-2907

(412) 983-7058
INU:
PO:

REF:

DEPT:

RMA: 



570CJ/AC5F/6F4D



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TRK# 5881 4550 7719
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PRIORITY OVERNIGHT

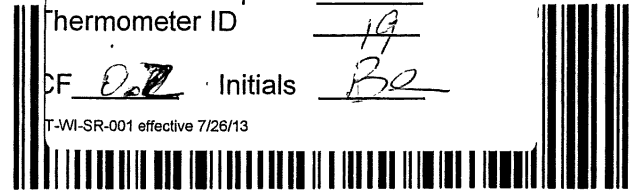
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15238
PA-US PIT

Uncorrected temp 20.6 °C
thermometer ID 19

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T-WI-SR-001 effective 7/26/13



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Svcs: Ph...

1100A

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

34/MTW/EXP 09/23

ORIGIN ID:GTYA (850) 396-0192
RICK HAGENDORFER
RDH SAMPLING
10898A COUNTY ROAD 97
ELBERTA, AL 36530
UNITED STATES US

SHIP DATE: 19OCT22
ACTWGT: 50.00 LB MAN
CAD: 0129689/CAFE3511

TO

TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA

(412) 863-7058
THU:
PO:

REF

RT

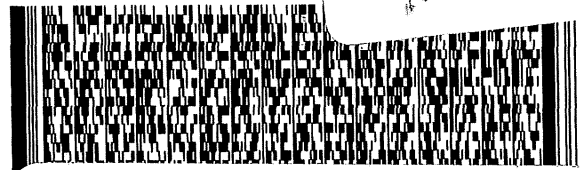
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PT-WI-SR-001 effective

Uncorrected temp

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Uncorrected temp
thermometer ID

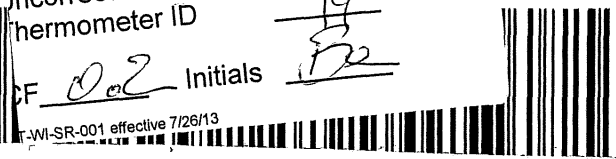
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PT-WI-SR-001 effective 7/26/13

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Svcs: PRIORITY OVERNIGHT Master 5881 4550 7706
TRCK: 5881 4550 7720

Part # 159469-434 MTW EXP 09/23

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID: GTYA (850) 336-0192
RICK HAGENDORFER
RDH SAMPLING
10998A COUNTY ROAD 97
ELBERTA, AL 36530
UNITED STATES US

SHIP DATE: 13OCT22
ACTWT: 50.00 LB MAN
CAD: 0129689/CAFE3511

TO
TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238-2907

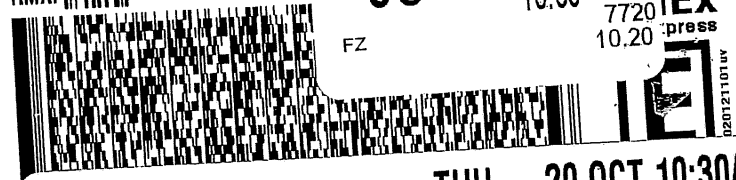
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Thermometer ID 19
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TestAmerica

THE LEADER IN ENVIRONMENTAL

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HMTW EXP 06/23
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ORIGIN ID:GTVA (850) 336-0192
RICK HAGENDORFER
RDH SAMPLING
10998A COUNTY ROAD 97

130CT22
50.00 LB MAN
29689/CAFE3511

ELBERTA, AL 36530
UNITED STATES US

TO

TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238-2907

(412) 983-7058

REF:

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FedEx

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PRIORITY OVERNIGHT

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Initials

PT-WI-SR-001 effective 7/26/13

Uncorrected temp

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Uncorrected temp

20.6 °C

Thermometer ID

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CF 02

Initials

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PT-WI-SR-001 effective 7/26/13

04573711 10/19 581J1/ACSF/FE2D

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 (Not)	COC No 180-472155.1
Client Contact Shipping/Receiving		E-Mail Shali.Brown@et.eurofins.com	State of Origin Georgia	Page Page 1 of 1
Company TestAmerica Laboratories, Inc.		Accreditations Required (See note): 180-146553-2		
Address 13715 Rider Trail North,		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Nitric Acid R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - Trizma Y - EDTA 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, Ra228/PreSep, 0 Radium 228		
Email		9315, Ra226/PreSep, 21 Radium 226		
Project Name Plant Watson Ash Pond		Radium-228		
Site 18020186		Radium-228, GFC/ Combined Radium-226 and		
SSOW#		Perform MS/MSD (Yes or No)		
Due Date Requested: 11/21/2022		Field Filtered Sample (Yes or No)		
TAT Requested (days):		Preservation Code:		
PO #		Matrix (W=Water, S=solid, O=water/oil, BT=titania, A=alk)		
WO #		Sample Type (C=Comp, G=grab)		
Project # 18020186		Sample Time		
SSOW#		Sample Date		
Sample Identification - Client ID (Lab ID)		Sample Date		
APMW-6R (180-146553-1)	10/19/22	08:24 Eastern	Water	2
APMW-6D (180-146553-2)	10/19/22	09:12 Eastern	Water	2
APMW-5 (180-146553-3)	10/19/22	10:06 Eastern	Water	2
APMW-5D (180-146553-4)	10/19/22	11:05 Eastern	Water	2
APMW-4 (180-146553-5)	10/19/22	12:03 Eastern	Water	2
DUP-03 (180-146553-6)	10/19/22	09:06 Eastern	Water	2
EB-03 (180-146553-7)	10/19/22	12:15 Eastern	Water	2
FB-03 (180-146553-8)	10/19/22	12:25 Eastern	Water	2
<p>Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon 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.</p>				
Possible Hazard Identification				
Unconfirmed				
Deliverable Requested: I, II, III, IV, Other (specify)				
Primary Deliverable Rank: 2				
Empty Kit 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:				
<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:				
Date/Time				
Company				
Date/Time				
Company				
Date/Time				
Company				
Date/Time				
Company				



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-146553-2

Login Number: 146553

List Source: Eurofins 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: 180-146553-2

Login Number: 146553

List Number: 2

Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis

List Creation: 10/24/22 04:56 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	



Eurofins Pittsburgh

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Pittsburgh and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Pittsburgh Project Manager or designee who has signed this report.

PA Lab ID: 02-00416

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

Authorization



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



ANALYTICAL REPORT

PREPARED FOR

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

JOB DESCRIPTION

Plant Watson Ash Pond

JOB NUMBER

180-146554-1



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	12
QC Sample Results	20
QC Association Summary	24
Chain of Custody	27
Receipt Checklists	32
Appendix	33

Case Narrative

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

Job ID: 180-146554-1

Job ID: 180-146554-1

Laboratory: Eurofins Pittsburgh

Narrative

**Job Narrative
180-146554-1**

Comments

No additional comments.

Receipt

The samples were received on 10/20/2022 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 3 coolers at receipt time were 2.7° C, 2.8° C and 2.8° C.

GC Semi VOA

Method 300.0: The method blank for analytical batch 180-415804 contained Fluoride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0: The following samples were diluted due to the nature of the sample matrix: APMW-7 (180-146554-2), APMW-14 (180-146554-5), APMW-13 (180-146554-6), APMW-15 (180-146554-7) and APMW-16 (180-146554-8). 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.

Metals

Method 7470A: The laboratory control sample (LCS) for preparation batch 180-416094 and analytical batch 180-416482 recovered above the control limits for mercury. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

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: 180-146554-1

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
*+	LCS and/or LCSD 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.
□	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: 180-146554-1

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	04-30-23
Connecticut	State	PH-0688	09-30-22 *
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	06-30-23
Kansas	NELAP	E-10350	03-31-23
Kentucky (UST)	State	162013	04-30-23
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-22
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	04-30-23
Oregon	NELAP	PA-2151	02-07-23
Pennsylvania	NELAP	02-00416	04-30-23
Rhode Island	State	LAO00362	12-31-22
South Carolina	State	89014	04-20-23
Texas	NELAP	T104704528	03-31-23
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-31-23
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-23

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



Sample Summary

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

Job ID: 180-146554-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-146554-1	APMW-8D	Water	10/18/22 15:26	10/20/22 09:00
180-146554-2	APMW-7	Water	10/18/22 16:55	10/20/22 09:00
180-146554-3	EB-02	Water	10/18/22 16:32	10/20/22 09:00
180-146554-4	FB-02	Water	10/18/22 16:23	10/20/22 09:00
180-146554-5	APMW-14	Water	10/19/22 11:05	10/20/22 09:00
180-146554-6	APMW-13	Water	10/19/22 11:57	10/20/22 09:00
180-146554-7	APMW-15	Water	10/19/22 13:13	10/20/22 09:00
180-146554-8	APMW-16	Water	10/19/22 14:19	10/20/22 09:00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

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

Job ID: 180-146554-1

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

EET 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: 180-146554-1

Client Sample ID: APMW-8D

Lab Sample ID: 180-146554-1

Date Collected: 10/18/22 15:26

Matrix: Water

Date Received: 10/20/22 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			415804	10/22/22 02:59	SNL	EET PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		1			417544	11/08/22 17:13	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	416598	10/28/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416939	11/02/22 00:48	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416094	10/25/22 07:25	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416482	10/27/22 14:06	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	415933	10/22/22 14:05	SNR	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-7

Lab Sample ID: 180-146554-2

Date Collected: 10/18/22 16:55

Matrix: Water

Date Received: 10/20/22 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			415804	10/22/22 04:13	SNL	EET PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		10			415804	10/22/22 04:28	SNL	EET PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		1			417544	11/08/22 18:27	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	416598	10/28/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416939	11/02/22 00:51	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416094	10/25/22 07:25	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416482	10/27/22 14:07	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	415933	10/22/22 14:05	SNR	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-02

Lab Sample ID: 180-146554-3

Date Collected: 10/18/22 16:32

Matrix: Water

Date Received: 10/20/22 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			415804	10/22/22 04:42	SNL	EET PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		1			417544	11/08/22 17:58	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	416598	10/28/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416939	11/02/22 01:06	RSK	EET PIT
Instrument ID: A										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-146554-1

Client Sample ID: EB-02

Lab Sample ID: 180-146554-3

Date Collected: 10/18/22 16:32

Matrix: Water

Date Received: 10/20/22 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	7470A			25 mL	25 mL	416094	10/25/22 07:25	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416482	10/27/22 14:08	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	415933	10/22/22 14:05	SNR	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-02

Lab Sample ID: 180-146554-4

Date Collected: 10/18/22 16:23

Matrix: Water

Date Received: 10/20/22 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			415804	10/22/22 04:57	SNL	EET PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		1			417544	11/08/22 18:13	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	416598	10/28/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416939	11/02/22 01:09	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416094	10/25/22 07:25	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416482	10/27/22 14:09	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	415933	10/22/22 14:05	SNR	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-14

Lab Sample ID: 180-146554-5

Date Collected: 10/19/22 11:05

Matrix: Water

Date Received: 10/20/22 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			415804	10/22/22 05:27	SNL	EET PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		1			417544	11/08/22 19:27	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	416598	10/28/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416939	11/02/22 01:13	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416094	10/25/22 07:25	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416482	10/27/22 14:10	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	416050	10/24/22 16:21	LWM	EET PIT
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-146554-1

Client Sample ID: APMW-13

Lab Sample ID: 180-146554-6

Date Collected: 10/19/22 11:57

Matrix: Water

Date Received: 10/20/22 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			415804	10/22/22 05:56	SNL	EET PIT
	Instrument ID: CHICS2100B									
Total/NA	Analysis	300.0		1			417544	11/08/22 19:56	SNL	EET PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			25 mL	25 mL	416598	10/28/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416939	11/02/22 01:24	RSK	EET PIT
	Instrument ID: A									
Total/NA	Prep	7470A			25 mL	25 mL	416094	10/25/22 07:25	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416482	10/27/22 14:11	RJR	EET PIT
	Instrument ID: HGY									
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	416041	10/24/22 14:19	LWM	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: APMW-15

Lab Sample ID: 180-146554-7

Date Collected: 10/19/22 13:13

Matrix: Water

Date Received: 10/20/22 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			415804	10/22/22 06:41	SNL	EET PIT
	Instrument ID: CHICS2100B									
Total/NA	Analysis	300.0		10			415804	10/22/22 06:55	SNL	EET PIT
	Instrument ID: CHICS2100B									
Total/NA	Analysis	300.0		1			417544	11/08/22 20:26	SNL	EET PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			25 mL	25 mL	416598	10/28/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416939	11/02/22 01:35	RSK	EET PIT
	Instrument ID: A									
Total/NA	Prep	7470A			25 mL	25 mL	416094	10/25/22 07:25	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416482	10/27/22 14:12	RJR	EET PIT
	Instrument ID: HGY									
Total/NA	Analysis	SM 2540C		1	15 mL	100 mL	416041	10/24/22 14:19	LWM	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: APMW-16

Lab Sample ID: 180-146554-8

Date Collected: 10/19/22 14:19

Matrix: Water

Date Received: 10/20/22 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			415804	10/22/22 07:10	SNL	EET PIT
	Instrument ID: CHICS2100B									
Total/NA	Analysis	300.0		10			415804	10/22/22 07:25	SNL	EET PIT
	Instrument ID: CHICS2100B									
Total/NA	Analysis	300.0		1			417544	11/08/22 20:59	SNL	EET PIT
	Instrument ID: CHICS2100B									

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-146554-1

Client Sample ID: APMW-16
Date Collected: 10/19/22 14:19
Date Received: 10/20/22 09:00

Lab Sample ID: 180-146554-8
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			25 mL	25 mL	416598	10/28/22 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			416939	11/02/22 01:53	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416094	10/25/22 07:25	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			416482	10/27/22 14:13	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	15 mL	100 mL	416041	10/24/22 14:19	LWM	EET PIT
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: EET PIT

Batch Type: Prep

HCY = Harrison Yaeger

RJR = Ron Rosenbaum

Batch Type: Analysis

LWM = Leslie McIntire

RJR = Ron Rosenbaum

RSK = Robert Kurtz

SNL = Sean Lordo

SNR = Sabra Richart

Client Sample Results

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

Job ID: 180-146554-1

Client Sample ID: APMW-8D

Lab Sample ID: 180-146554-1

Date Collected: 10/18/22 15:26

Matrix: Water

Date Received: 10/20/22 09:00

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.1		1.0	0.71	mg/L			10/22/22 02:59	1
Fluoride	0.091	J	0.20	0.026	mg/L			11/08/22 17:13	1
Sulfate	7.6		1.0	0.76	mg/L			10/22/22 02:59	1

Method: SW846 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		10/28/22 14:30	11/02/22 00:48	1
Arsenic	0.0027		0.0010	0.00028	mg/L		10/28/22 14:30	11/02/22 00:48	1
Barium	0.10		0.010	0.0031	mg/L		10/28/22 14:30	11/02/22 00:48	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/28/22 14:30	11/02/22 00:48	1
Boron	0.14		0.080	0.060	mg/L		10/28/22 14:30	11/02/22 00:48	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/28/22 14:30	11/02/22 00:48	1
Calcium	6.1	B	0.50	0.13	mg/L		10/28/22 14:30	11/02/22 00:48	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/28/22 14:30	11/02/22 00:48	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/28/22 14:30	11/02/22 00:48	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/28/22 14:30	11/02/22 00:48	1
Lithium	0.0021	J	0.0050	0.00083	mg/L		10/28/22 14:30	11/02/22 00:48	1
Molybdenum	0.0012	J	0.015	0.00061	mg/L		10/28/22 14:30	11/02/22 00:48	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/28/22 14:30	11/02/22 00:48	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/28/22 14:30	11/02/22 00:48	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	*+	0.00020	0.00013	mg/L		10/25/22 07:25	10/27/22 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	140		10	10	mg/L			10/22/22 14:05	1

Client Sample Results

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

Job ID: 180-146554-1

Client Sample ID: APMW-7

Lab Sample ID: 180-146554-2

Date Collected: 10/18/22 16:55

Matrix: Water

Date Received: 10/20/22 09:00

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4000		10	7.1	mg/L			10/22/22 04:28	10
Fluoride	0.084	J	0.20	0.026	mg/L			11/08/22 18:27	1
Sulfate	25		1.0	0.76	mg/L			10/22/22 04:13	1

Method: SW846 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		10/28/22 14:30	11/02/22 00:51	1
Arsenic	0.00066	J	0.0010	0.00028	mg/L		10/28/22 14:30	11/02/22 00:51	1
Barium	0.97		0.010	0.0031	mg/L		10/28/22 14:30	11/02/22 00:51	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/28/22 14:30	11/02/22 00:51	1
Boron	1.2		0.080	0.060	mg/L		10/28/22 14:30	11/02/22 00:51	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/28/22 14:30	11/02/22 00:51	1
Calcium	100	B	0.50	0.13	mg/L		10/28/22 14:30	11/02/22 00:51	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/28/22 14:30	11/02/22 00:51	1
Cobalt	0.00033	J	0.0025	0.00026	mg/L		10/28/22 14:30	11/02/22 00:51	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/28/22 14:30	11/02/22 00:51	1
Lithium	0.0041	J	0.0050	0.00083	mg/L		10/28/22 14:30	11/02/22 00:51	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/28/22 14:30	11/02/22 00:51	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/28/22 14:30	11/02/22 00:51	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/28/22 14:30	11/02/22 00:51	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	*+	0.00020	0.00013	mg/L		10/25/22 07:25	10/27/22 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	7900		100	100	mg/L			10/22/22 14:05	1

Client Sample Results

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

Job ID: 180-146554-1

Client Sample ID: EB-02

Lab Sample ID: 180-146554-3

Date Collected: 10/18/22 16:32

Matrix: Water

Date Received: 10/20/22 09:00

Method: MCAWW 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			10/22/22 04:42	1
Fluoride	<0.026		0.20	0.026	mg/L			11/08/22 17:58	1
Sulfate	<0.76		1.0	0.76	mg/L			10/22/22 04:42	1

Method: SW846 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		10/28/22 14:30	11/02/22 01:06	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		10/28/22 14:30	11/02/22 01:06	1
Barium	<0.0031		0.010	0.0031	mg/L		10/28/22 14:30	11/02/22 01:06	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/28/22 14:30	11/02/22 01:06	1
Boron	<0.060		0.080	0.060	mg/L		10/28/22 14:30	11/02/22 01:06	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/28/22 14:30	11/02/22 01:06	1
Calcium	<0.13		0.50	0.13	mg/L		10/28/22 14:30	11/02/22 01:06	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/28/22 14:30	11/02/22 01:06	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/28/22 14:30	11/02/22 01:06	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/28/22 14:30	11/02/22 01:06	1
Lithium	<0.00083		0.0050	0.00083	mg/L		10/28/22 14:30	11/02/22 01:06	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/28/22 14:30	11/02/22 01:06	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/28/22 14:30	11/02/22 01:06	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/28/22 14:30	11/02/22 01:06	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	*+	0.00020	0.00013	mg/L		10/25/22 07:25	10/27/22 14:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			10/22/22 14:05	1

Client Sample Results

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

Job ID: 180-146554-1

Client Sample ID: FB-02

Lab Sample ID: 180-146554-4

Date Collected: 10/18/22 16:23

Matrix: Water

Date Received: 10/20/22 09:00

Method: MCAWW 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			10/22/22 04:57	1
Fluoride	<0.026		0.20	0.026	mg/L			11/08/22 18:13	1
Sulfate	<0.76		1.0	0.76	mg/L			10/22/22 04:57	1

Method: SW846 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		10/28/22 14:30	11/02/22 01:09	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		10/28/22 14:30	11/02/22 01:09	1
Barium	<0.0031		0.010	0.0031	mg/L		10/28/22 14:30	11/02/22 01:09	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/28/22 14:30	11/02/22 01:09	1
Boron	<0.060		0.080	0.060	mg/L		10/28/22 14:30	11/02/22 01:09	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/28/22 14:30	11/02/22 01:09	1
Calcium	<0.13		0.50	0.13	mg/L		10/28/22 14:30	11/02/22 01:09	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/28/22 14:30	11/02/22 01:09	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/28/22 14:30	11/02/22 01:09	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/28/22 14:30	11/02/22 01:09	1
Lithium	<0.00083		0.0050	0.00083	mg/L		10/28/22 14:30	11/02/22 01:09	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/28/22 14:30	11/02/22 01:09	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/28/22 14:30	11/02/22 01:09	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/28/22 14:30	11/02/22 01:09	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	*+	0.00020	0.00013	mg/L		10/25/22 07:25	10/27/22 14:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			10/22/22 14:05	1

Client Sample Results

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

Job ID: 180-146554-1

Client Sample ID: APMW-14

Lab Sample ID: 180-146554-5

Date Collected: 10/19/22 11:05

Matrix: Water

Date Received: 10/20/22 09:00

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2900		10	7.1	mg/L			10/22/22 05:27	10
Fluoride	<0.026		0.20	0.026	mg/L			11/08/22 19:27	1
Sulfate	830		10	7.6	mg/L			10/22/22 05:27	10

Method: SW846 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		10/28/22 14:30	11/02/22 01:13	1
Arsenic	0.00033	J	0.0010	0.00028	mg/L		10/28/22 14:30	11/02/22 01:13	1
Barium	0.19		0.010	0.0031	mg/L		10/28/22 14:30	11/02/22 01:13	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/28/22 14:30	11/02/22 01:13	1
Boron	0.75		0.080	0.060	mg/L		10/28/22 14:30	11/02/22 01:13	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/28/22 14:30	11/02/22 01:13	1
Calcium	110	B	0.50	0.13	mg/L		10/28/22 14:30	11/02/22 01:13	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/28/22 14:30	11/02/22 01:13	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/28/22 14:30	11/02/22 01:13	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/28/22 14:30	11/02/22 01:13	1
Lithium	0.0015	J	0.0050	0.00083	mg/L		10/28/22 14:30	11/02/22 01:13	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/28/22 14:30	11/02/22 01:13	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/28/22 14:30	11/02/22 01:13	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/28/22 14:30	11/02/22 01:13	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	*+	0.00020	0.00013	mg/L		10/25/22 07:25	10/27/22 14:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	5900		100	100	mg/L			10/24/22 16:21	1

Client Sample Results

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

Job ID: 180-146554-1

Client Sample ID: APMW-13

Lab Sample ID: 180-146554-6

Date Collected: 10/19/22 11:57

Matrix: Water

Date Received: 10/20/22 09:00

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		5.0	3.6	mg/L			10/22/22 05:56	5
Fluoride	0.034	J	0.20	0.026	mg/L			11/08/22 19:56	1
Sulfate	810		5.0	3.8	mg/L			10/22/22 05:56	5

Method: SW846 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		10/28/22 14:30	11/02/22 01:24	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		10/28/22 14:30	11/02/22 01:24	1
Barium	0.23		0.010	0.0031	mg/L		10/28/22 14:30	11/02/22 01:24	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/28/22 14:30	11/02/22 01:24	1
Boron	0.66		0.080	0.060	mg/L		10/28/22 14:30	11/02/22 01:24	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/28/22 14:30	11/02/22 01:24	1
Calcium	100	B	0.50	0.13	mg/L		10/28/22 14:30	11/02/22 01:24	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/28/22 14:30	11/02/22 01:24	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/28/22 14:30	11/02/22 01:24	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/28/22 14:30	11/02/22 01:24	1
Lithium	0.0029	J	0.0050	0.00083	mg/L		10/28/22 14:30	11/02/22 01:24	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/28/22 14:30	11/02/22 01:24	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/28/22 14:30	11/02/22 01:24	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/28/22 14:30	11/02/22 01:24	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	*+	0.00020	0.00013	mg/L		10/25/22 07:25	10/27/22 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	3600		40	40	mg/L			10/24/22 14:19	1

Client Sample Results

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

Job ID: 180-146554-1

Client Sample ID: APMW-15

Lab Sample ID: 180-146554-7

Date Collected: 10/19/22 13:13

Matrix: Water

Date Received: 10/20/22 09:00

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2700		10	7.1	mg/L			10/22/22 06:55	10
Fluoride	0.13	J	0.20	0.026	mg/L			11/08/22 20:26	1
Sulfate	76		1.0	0.76	mg/L			10/22/22 06:41	1

Method: SW846 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		10/28/22 14:30	11/02/22 01:35	1
Arsenic	0.00062	J	0.0010	0.00028	mg/L		10/28/22 14:30	11/02/22 01:35	1
Barium	0.043		0.010	0.0031	mg/L		10/28/22 14:30	11/02/22 01:35	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/28/22 14:30	11/02/22 01:35	1
Boron	0.73		0.080	0.060	mg/L		10/28/22 14:30	11/02/22 01:35	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/28/22 14:30	11/02/22 01:35	1
Calcium	65	B	0.50	0.13	mg/L		10/28/22 14:30	11/02/22 01:35	1
Chromium	0.0015	J	0.0020	0.0015	mg/L		10/28/22 14:30	11/02/22 01:35	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/28/22 14:30	11/02/22 01:35	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/28/22 14:30	11/02/22 01:35	1
Lithium	0.0077		0.0050	0.00083	mg/L		10/28/22 14:30	11/02/22 01:35	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/28/22 14:30	11/02/22 01:35	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/28/22 14:30	11/02/22 01:35	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/28/22 14:30	11/02/22 01:35	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	*+	0.00020	0.00013	mg/L		10/25/22 07:25	10/27/22 14:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	5700		67	67	mg/L			10/24/22 14:19	1

Client Sample Results

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

Job ID: 180-146554-1

Client Sample ID: APMW-16

Lab Sample ID: 180-146554-8

Date Collected: 10/19/22 14:19

Matrix: Water

Date Received: 10/20/22 09:00

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3000		10	7.1	mg/L			10/22/22 07:25	10
Fluoride	0.094	J	0.20	0.026	mg/L			11/08/22 20:59	1
Sulfate	57		1.0	0.76	mg/L			10/22/22 07:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00055	J	0.0020	0.00051	mg/L		10/28/22 14:30	11/02/22 01:53	1
Arsenic	0.0011		0.0010	0.00028	mg/L		10/28/22 14:30	11/02/22 01:53	1
Barium	0.069		0.010	0.0031	mg/L		10/28/22 14:30	11/02/22 01:53	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/28/22 14:30	11/02/22 01:53	1
Boron	0.71		0.080	0.060	mg/L		10/28/22 14:30	11/02/22 01:53	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/28/22 14:30	11/02/22 01:53	1
Calcium	82	B	0.50	0.13	mg/L		10/28/22 14:30	11/02/22 01:53	1
Chromium	0.0018	J	0.0020	0.0015	mg/L		10/28/22 14:30	11/02/22 01:53	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/28/22 14:30	11/02/22 01:53	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/28/22 14:30	11/02/22 01:53	1
Lithium	0.0082		0.0050	0.00083	mg/L		10/28/22 14:30	11/02/22 01:53	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/28/22 14:30	11/02/22 01:53	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/28/22 14:30	11/02/22 01:53	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/28/22 14:30	11/02/22 01:53	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013	*+	0.00020	0.00013	mg/L		10/25/22 07:25	10/27/22 14:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	5700		67	67	mg/L			10/24/22 14:19	1

QC Sample Results

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

Job ID: 180-146554-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-415804/49
Matrix: Water
Analysis Batch: 415804

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			10/22/22 02:29	1
Fluoride	0.0828	J	0.20	0.026	mg/L			10/22/22 02:29	1
Sulfate	<0.76		1.0	0.76	mg/L			10/22/22 02:29	1

Lab Sample ID: LCS 180-415804/50
Matrix: Water
Analysis Batch: 415804

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	49.3		mg/L		99	90 - 110
Fluoride	2.50	2.43		mg/L		97	90 - 110
Sulfate	50.0	49.3		mg/L		99	90 - 110

Lab Sample ID: 180-146554-1 MS
Matrix: Water
Analysis Batch: 415804

Client Sample ID: APMW-8D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	6.1		50.0	54.5		mg/L		97	90 - 110
Fluoride	0.056	J B	2.50	2.61		mg/L		102	90 - 110
Sulfate	7.6		50.0	55.2		mg/L		95	90 - 110

Lab Sample ID: 180-146554-1 MSD
Matrix: Water
Analysis Batch: 415804

Client Sample ID: APMW-8D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6.1		50.0	54.3		mg/L		96	90 - 110	0	20
Fluoride	0.056	J B	2.50	2.61		mg/L		102	90 - 110	0	20
Sulfate	7.6		50.0	55.5		mg/L		96	90 - 110	1	20

Lab Sample ID: MB 180-417544/6
Matrix: Water
Analysis Batch: 417544

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			11/08/22 16:07	1
Fluoride	<0.026		0.20	0.026	mg/L			11/08/22 16:07	1
Sulfate	<0.76		1.0	0.76	mg/L			11/08/22 16:07	1

Lab Sample ID: LCS 180-417544/7
Matrix: Water
Analysis Batch: 417544

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
Fluoride	2.50	2.73		mg/L		109	90 - 110
Sulfate	50.0	51.8		mg/L		104	90 - 110

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QC Sample Results

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

Job ID: 180-146554-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-146554-1 MS
Matrix: Water
Analysis Batch: 417544

Client Sample ID: APMW-8D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.9		50.0	52.3		mg/L		93	90 - 110
Fluoride	0.091	J	2.50	2.60		mg/L		100	90 - 110
Sulfate	6.7		50.0	53.2		mg/L		93	90 - 110

Lab Sample ID: 180-146554-1 MSD
Matrix: Water
Analysis Batch: 417544

Client Sample ID: APMW-8D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.9		50.0	52.1		mg/L		92	90 - 110	0	20
Fluoride	0.091	J	2.50	2.62		mg/L		101	90 - 110	1	20
Sulfate	6.7		50.0	53.7		mg/L		94	90 - 110	1	20

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

Lab Sample ID: MB 180-416598/1-A
Matrix: Water
Analysis Batch: 416939

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 416598

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		10/28/22 14:30	11/01/22 23:39	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		10/28/22 14:30	11/01/22 23:39	1
Barium	<0.0031		0.010	0.0031	mg/L		10/28/22 14:30	11/01/22 23:39	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/28/22 14:30	11/01/22 23:39	1
Boron	<0.060		0.080	0.060	mg/L		10/28/22 14:30	11/01/22 23:39	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/28/22 14:30	11/01/22 23:39	1
Calcium	0.243	J	0.50	0.13	mg/L		10/28/22 14:30	11/01/22 23:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/28/22 14:30	11/01/22 23:39	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/28/22 14:30	11/01/22 23:39	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/28/22 14:30	11/01/22 23:39	1
Lithium	<0.00083		0.0050	0.00083	mg/L		10/28/22 14:30	11/01/22 23:39	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/28/22 14:30	11/01/22 23:39	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/28/22 14:30	11/01/22 23:39	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/28/22 14:30	11/01/22 23:39	1

Lab Sample ID: LCS 180-416598/2-A
Matrix: Water
Analysis Batch: 416939

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 416598

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.283		mg/L		113	80 - 120
Arsenic	1.00	1.08		mg/L		108	80 - 120
Barium	1.00	0.996		mg/L		100	80 - 120
Beryllium	0.500	0.531		mg/L		106	80 - 120
Boron	1.25	1.28		mg/L		102	80 - 120
Cadmium	0.500	0.543		mg/L		109	80 - 120
Calcium	25.0	29.6		mg/L		118	80 - 120
Chromium	0.500	0.538		mg/L		108	80 - 120
Cobalt	0.500	0.546		mg/L		109	80 - 120

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QC Sample Results

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

Job ID: 180-146554-1

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

Lab Sample ID: LCS 180-416598/2-A
Matrix: Water
Analysis Batch: 416939

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 416598

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.500	0.546		mg/L		109	80 - 120
Lithium	0.500	0.501		mg/L		100	80 - 120
Molybdenum	0.500	0.552		mg/L		110	80 - 120
Selenium	1.00	1.07		mg/L		107	80 - 120
Thallium	1.00	1.13		mg/L		113	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-416094/1-A
Matrix: Water
Analysis Batch: 416482

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 416094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/25/22 07:25	10/27/22 13:55	1

Lab Sample ID: LCS 180-416094/2-A
Matrix: Water
Analysis Batch: 416482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 416094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00305	*+	mg/L		122	80 - 120

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

Lab Sample ID: MB 180-415933/1
Matrix: Water
Analysis Batch: 415933

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			10/22/22 14:05	1

Lab Sample ID: LCS 180-415933/2
Matrix: Water
Analysis Batch: 415933

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	388	356		mg/L		92	85 - 115

Lab Sample ID: MB 180-416041/1
Matrix: Water
Analysis Batch: 416041

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			10/24/22 14:19	1

Lab Sample ID: LCS 180-416041/2
Matrix: Water
Analysis Batch: 416041

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	388	388		mg/L		100	85 - 115

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QC Sample Results

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

Job ID: 180-146554-1

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

Lab Sample ID: 180-146554-6 DU
Matrix: Water
Analysis Batch: 416041

Client Sample ID: APMW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	3600		3480		mg/L		5	10

Lab Sample ID: MB 180-416050/1
Matrix: Water
Analysis Batch: 416050

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			10/24/22 16:21	1

Lab Sample ID: LCS 180-416050/2
Matrix: Water
Analysis Batch: 416050

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	388	356		mg/L		92	85 - 115

QC Association Summary

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

Job ID: 180-146554-1

HPLC/IC

Analysis Batch: 415804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146554-1	APMW-8D	Total/NA	Water	300.0	
180-146554-2	APMW-7	Total/NA	Water	300.0	
180-146554-2	APMW-7	Total/NA	Water	300.0	
180-146554-3	EB-02	Total/NA	Water	300.0	
180-146554-4	FB-02	Total/NA	Water	300.0	
180-146554-5	APMW-14	Total/NA	Water	300.0	
180-146554-6	APMW-13	Total/NA	Water	300.0	
180-146554-7	APMW-15	Total/NA	Water	300.0	
180-146554-7	APMW-15	Total/NA	Water	300.0	
180-146554-8	APMW-16	Total/NA	Water	300.0	
180-146554-8	APMW-16	Total/NA	Water	300.0	
MB 180-415804/49	Method Blank	Total/NA	Water	300.0	
LCS 180-415804/50	Lab Control Sample	Total/NA	Water	300.0	
180-146554-1 MS	APMW-8D	Total/NA	Water	300.0	
180-146554-1 MSD	APMW-8D	Total/NA	Water	300.0	

Analysis Batch: 417544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146554-1	APMW-8D	Total/NA	Water	300.0	
180-146554-2	APMW-7	Total/NA	Water	300.0	
180-146554-3	EB-02	Total/NA	Water	300.0	
180-146554-4	FB-02	Total/NA	Water	300.0	
180-146554-5	APMW-14	Total/NA	Water	300.0	
180-146554-6	APMW-13	Total/NA	Water	300.0	
180-146554-7	APMW-15	Total/NA	Water	300.0	
180-146554-8	APMW-16	Total/NA	Water	300.0	
MB 180-417544/6	Method Blank	Total/NA	Water	300.0	
LCS 180-417544/7	Lab Control Sample	Total/NA	Water	300.0	
180-146554-1 MS	APMW-8D	Total/NA	Water	300.0	
180-146554-1 MSD	APMW-8D	Total/NA	Water	300.0	

Metals

Prep Batch: 416094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146554-1	APMW-8D	Total/NA	Water	7470A	
180-146554-2	APMW-7	Total/NA	Water	7470A	
180-146554-3	EB-02	Total/NA	Water	7470A	
180-146554-4	FB-02	Total/NA	Water	7470A	
180-146554-5	APMW-14	Total/NA	Water	7470A	
180-146554-6	APMW-13	Total/NA	Water	7470A	
180-146554-7	APMW-15	Total/NA	Water	7470A	
180-146554-8	APMW-16	Total/NA	Water	7470A	
MB 180-416094/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-416094/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 416482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146554-1	APMW-8D	Total/NA	Water	EPA 7470A	416094
180-146554-2	APMW-7	Total/NA	Water	EPA 7470A	416094
180-146554-3	EB-02	Total/NA	Water	EPA 7470A	416094

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QC Association Summary

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

Job ID: 180-146554-1

Metals (Continued)

Analysis Batch: 416482 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146554-4	FB-02	Total/NA	Water	EPA 7470A	416094
180-146554-5	APMW-14	Total/NA	Water	EPA 7470A	416094
180-146554-6	APMW-13	Total/NA	Water	EPA 7470A	416094
180-146554-7	APMW-15	Total/NA	Water	EPA 7470A	416094
180-146554-8	APMW-16	Total/NA	Water	EPA 7470A	416094
MB 180-416094/1-A	Method Blank	Total/NA	Water	EPA 7470A	416094
LCS 180-416094/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	416094

Prep Batch: 416598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146554-1	APMW-8D	Total Recoverable	Water	3005A	
180-146554-2	APMW-7	Total Recoverable	Water	3005A	
180-146554-3	EB-02	Total Recoverable	Water	3005A	
180-146554-4	FB-02	Total Recoverable	Water	3005A	
180-146554-5	APMW-14	Total Recoverable	Water	3005A	
180-146554-6	APMW-13	Total Recoverable	Water	3005A	
180-146554-7	APMW-15	Total Recoverable	Water	3005A	
180-146554-8	APMW-16	Total Recoverable	Water	3005A	
MB 180-416598/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-416598/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 416939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146554-1	APMW-8D	Total Recoverable	Water	EPA 6020B	416598
180-146554-2	APMW-7	Total Recoverable	Water	EPA 6020B	416598
180-146554-3	EB-02	Total Recoverable	Water	EPA 6020B	416598
180-146554-4	FB-02	Total Recoverable	Water	EPA 6020B	416598
180-146554-5	APMW-14	Total Recoverable	Water	EPA 6020B	416598
180-146554-6	APMW-13	Total Recoverable	Water	EPA 6020B	416598
180-146554-7	APMW-15	Total Recoverable	Water	EPA 6020B	416598
180-146554-8	APMW-16	Total Recoverable	Water	EPA 6020B	416598
MB 180-416598/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	416598
LCS 180-416598/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	416598

General Chemistry

Analysis Batch: 415933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146554-1	APMW-8D	Total/NA	Water	SM 2540C	
180-146554-2	APMW-7	Total/NA	Water	SM 2540C	
180-146554-3	EB-02	Total/NA	Water	SM 2540C	
180-146554-4	FB-02	Total/NA	Water	SM 2540C	
MB 180-415933/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-415933/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 416041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146554-6	APMW-13	Total/NA	Water	SM 2540C	
180-146554-7	APMW-15	Total/NA	Water	SM 2540C	
180-146554-8	APMW-16	Total/NA	Water	SM 2540C	
MB 180-416041/1	Method Blank	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 180-146554-1

General Chemistry (Continued)

Analysis Batch: 416041 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-416041/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-146554-6 DU	APMW-13	Total/NA	Water	SM 2540C	

Analysis Batch: 416050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146554-5	APMW-14	Total/NA	Water	SM 2540C	
MB 180-416050/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-416050/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Client Information Client Contact: Rick Henderson / Laura Magendick SCS Contacts: Brown, Shali Phone: 850 330 0192 E-Mail: shall.brown@eurofinset.com Lab PM: Brown, Shali Carrier Tracking No(s): Page: 1 of 1 Job #:		COC No: 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 - AsH2O2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4-5 X - other (specify)	
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: SCS Contacts: 18020186 Plant Watson Site: Ash Pond		Analysis Requested: 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate 6020B/7470 Custom (4 Appl/II/ApplV) + Mercury 9315_Ra226 Radium 226 9320_Ra228 Radium 228 Combined RAD	
Sample Identification Sample ID: APMN-8D APMN-17 EB-02 FB-02 APMN-14 APMN-13 APMN-15 APMN-16 Ash 11/19/22		Matrix (W=Water, S=solid, O=Other, T=Tissue, A=Air) Sample Type (C=Comp, G=grab) Sample Time Sample Date 10-18-22 1526 G W 10-18-22 1655 G W 10-18-22 1632 G W 10-18-22 1633 G W 10-19-22 1105 G W 10-19-22 1157 G W 10-19-22 1313 G W 10-19-22 1419 G W	
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		Special Instructions/Note: 180-146554 Chain of Custody	
Deliverable Requested: I, II, III, IV, Other (specify)		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:		Method of Shipment:	
Relinquished by: [Signature] Date/Time: 10-19-22 1534 Company: RDXENV		Received by: [Signature] Date/Time: 10-20-22 9:00 Company: PERRA	
Relinquished by: [Signature] Date/Time:		Received by: [Signature] Date/Time:	
Relinquished by: [Signature] Date/Time:		Received by: [Signature] Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



THE LEADER IN ENVIRONMENTAL

ORIGIN ID: GTYA (850) 336-0192
RICK HAGENDORFER
RDH SAMPLING
10998A COUNTY ROAD 97

SHIP DATE: 13OCT22
ACTWGT: 50.00 LB MAN
CAD: 0129689/CAFE3511

ELBERTA, AL 36530
UNITED STATES US

TO

TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238-2907

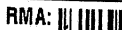
(412) 983-7058

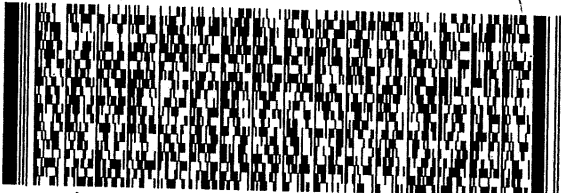
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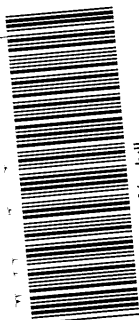
RMA: 



FedEx
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J2110210121101 UV



180-146554 Waybill

FedEx

TRK# 5881 4550 7719
0221

THU - 20 OCT 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US

PI

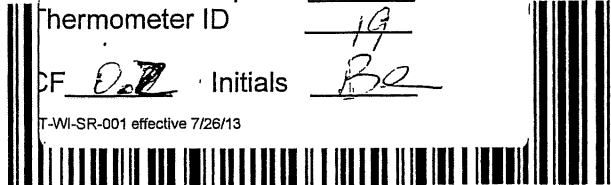
Uncorrected temp
Thermometer ID

20.6 °C

19

DF DoD Initials BE

T-WI-SR-001 effective 7/26/13



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

10:30 A
7708
10:20

RT 98

ORIGIN ID: GTYA (850) 336-0192
RICK HAGENROD
RDH SAMPLING
10998A COUNTY ROAD 97

13OCT22
2.00 LB MAX
29689/CAFE3511

ELBERTA, AL 36530
UNITED STATES US

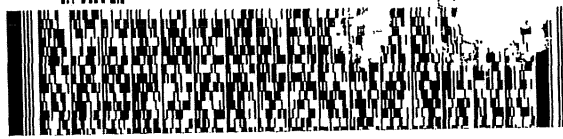
TO

TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238-2907

(412) 983-7058
INU:
PO:

REF:
DEPT:

RMA: ||| ||| |||



FedEx
Express



FedEx

TRK# 5881 4550 7708
0221

THU - 20 OCT 10:30A
PRIORITY OVERNIGHT

XN AG

CF _____ #vc Initials VC

PT-WI-SR-001 effective 7/26/13

Uncorrected temp _____ °C

Uncorrected temp 20.6 °C
Thermometer ID 18

CF 002 Initials BC

PT-WI-SR-001 effective 7/26/13

4573711 10/19 58111/ACSF/FE2D

4 MW EXP 09/23

570C1/ACSF/130C15

AN101121/09/11/13

1/23

Svos: Ph...

1704

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

31/MTW EXP 06/23

ORIGIN ID: GTYA (850) 336-0192
RICK HAGENDORFER
RDH SAMPLING
10998A COUNTY ROAD 97

SHIP DATE: 13OCT22
ACTWGT: 50.00 LB MAN
CAD: 0129689/CAFE3511

ELBERTA, AL 36530
UNITED STATES US

TO

TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA

(412) 983-7058

REF

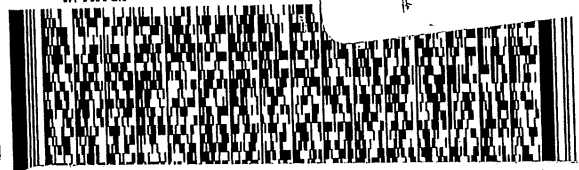
RT 98

1 10:30

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7774
10.20

RMA: 



redEx
Express



FedEx

TRK# 5881 4550 7774
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PRIORITY OVERNIGHT

X

PT-WI-SR-001 effective

Uncorrected temp

Uncorrected temp
thermometer ID

CF 002 Initials

2.6 °C

19

Initials

15238

PA-US

PIT

PT-WI-SR-001 effective 7/26/13



570C1/ACST/RF 4D

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Svc: PRIORITY OVERNIGHT Master 5881 4550 7708
TRCK: 5881 4550 7720

Part # 159469-434 MTW EXP 06/23

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID: GTYA (850) 336-0192
RICK HAGENDORFER
RDH SAMPLING
10998A COUNTY ROAD 97

SHIP DATE: 13OCT22
ACTWGT: 50.00 LB MAN
CAD: 0129689/CAPE3511

ELBERTA, AL 36530
UNITED STATES US

TO

TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238-2907

(412) 983-7058

REF

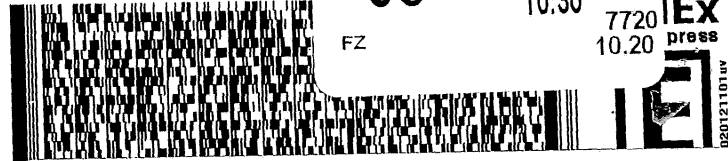
INU:
PO:

RMA: 0110110102

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FedEx

TRK# 5881 4550 7720
0221

THU - 20 OCT 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US PI

Uncorrected temp
thermometer ID

2.5°C
19

PF 0.2 Initials BE



Effective 7/26/13

57061/MSF/6F4D

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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-146554-1

Login Number: 146554

List Source: Eurofins 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	



Eurofins Pittsburgh

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Pittsburgh and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Pittsburgh Project Manager or designee who has signed this report.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the {0} Project Manager.

Authorization



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11/15/2022 4:51:54 PM

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



ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/21/2022 9:19:34 PM

JOB DESCRIPTION

Plant Watson Ash Pond

JOB NUMBER

180-146554-2



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	6
Method Summary	7
Lab Chronicle	8
Client Sample Results	11
QC Sample Results	19
QC Association Summary	20
Chain of Custody	21
Receipt Checklists	27
Appendix	29

Case Narrative

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

Job ID: 180-146554-2

Job ID: 180-146554-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-146554-2

Comments

No additional comments.

Receipt

The samples were received on 10/20/2022 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 3 coolers at receipt time were 2.7° C, 2.8° C and 2.8° C.

RAD

Method 9315: Radium-226 batch 587465

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-8D (180-146554-1), APMW-7 (180-146554-2), EB-02 (180-146554-3), FB-02 (180-146554-4), APMW-14 (180-146554-5), APMW-13 (180-146554-6), APMW-15 (180-146554-7), APMW-16 (180-146554-8), (LCS 160-587465/2-A), (MB 160-587465/1-A), (240-175045-L-2-A), (240-175045-L-2-B MS) and (240-175045-O-2-B MSD)

Method 9320: Radium-228 batch 587470

The detection goal was not met for the following sample(s). The sample was prepped at a reduced volume due to the presence of matrix interferences: (240-175045-L-2-C). Analytical results are reported with the detection limit achieved.

Method 9320: Radium-228 batch 587470

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-8D (180-146554-1), APMW-7 (180-146554-2), EB-02 (180-146554-3), FB-02 (180-146554-4), APMW-14 (180-146554-5), APMW-13 (180-146554-6), APMW-15 (180-146554-7), APMW-16 (180-146554-8), (LCS 160-587470/2-A), (MB 160-587470/1-A), (240-175045-L-2-C), (240-175045-L-2-D MS) and (240-175045-O-2-C MSD)

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: 180-146554-2

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: 180-146554-2

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	06-30-23
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	11-30-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-23
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	12-31-22

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

Sample Summary

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

Job ID: 180-146554-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-146554-1	APMW-8D	Water	10/18/22 15:26	10/20/22 09:00
180-146554-2	APMW-7	Water	10/18/22 16:55	10/20/22 09:00
180-146554-3	EB-02	Water	10/18/22 16:32	10/20/22 09:00
180-146554-4	FB-02	Water	10/18/22 16:23	10/20/22 09:00
180-146554-5	APMW-14	Water	10/19/22 11:05	10/20/22 09:00
180-146554-6	APMW-13	Water	10/19/22 11:57	10/20/22 09:00
180-146554-7	APMW-15	Water	10/19/22 13:13	10/20/22 09:00
180-146554-8	APMW-16	Water	10/19/22 14:19	10/20/22 09:00

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Method Summary

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

Job ID: 180-146554-2

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

Protocol References:

None = None

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

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

Laboratory References:

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



Lab Chronicle

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

Job ID: 180-146554-2

Client Sample ID: APMW-8D

Lab Sample ID: 180-146554-1

Date Collected: 10/18/22 15:26

Matrix: Water

Date Received: 10/20/22 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			999.93 mL	1.0 g	587465	10/27/22 08:16	BMP	EET SL
Total/NA	Analysis	9315		1			590652	11/19/22 22:20	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.93 mL	1.0 g	587470	10/27/22 08:57	BMP	EET SL
Total/NA	Analysis	9320		1			590173	11/15/22 12:13	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			590897	11/21/22 17:37	CAH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-7

Lab Sample ID: 180-146554-2

Date Collected: 10/18/22 16:55

Matrix: Water

Date Received: 10/20/22 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			757.35 mL	1.0 g	587465	10/27/22 08:16	BMP	EET SL
Total/NA	Analysis	9315		1			590652	11/19/22 22:20	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			757.35 mL	1.0 g	587470	10/27/22 08:57	BMP	EET SL
Total/NA	Analysis	9320		1			590173	11/15/22 12:13	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			590897	11/21/22 17:37	CAH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-02

Lab Sample ID: 180-146554-3

Date Collected: 10/18/22 16:32

Matrix: Water

Date Received: 10/20/22 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			1011.07 mL	1.0 g	587465	10/27/22 08:16	BMP	EET SL
Total/NA	Analysis	9315		1			590652	11/19/22 22:20	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1011.07 mL	1.0 g	587470	10/27/22 08:57	BMP	EET SL
Total/NA	Analysis	9320		1			590173	11/15/22 12:13	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			590897	11/21/22 17:37	CAH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-02

Lab Sample ID: 180-146554-4

Date Collected: 10/18/22 16:23

Matrix: Water

Date Received: 10/20/22 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			990.80 mL	1.0 g	587465	10/27/22 08:16	BMP	EET SL
Total/NA	Analysis	9315		1			590652	11/19/22 22:20	FLC	EET SL
Instrument ID: GFPCBLUE										

Lab Chronicle

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

Job ID: 180-146554-2

Client Sample ID: FB-02

Lab Sample ID: 180-146554-4

Date Collected: 10/18/22 16:23

Matrix: Water

Date Received: 10/20/22 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_0			990.80 mL	1.0 g	587470	10/27/22 08:57	BMP	EET SL
Total/NA	Analysis	9320		1			590173	11/15/22 12:13	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			590897	11/21/22 17:37	CAH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-14

Lab Sample ID: 180-146554-5

Date Collected: 10/19/22 11:05

Matrix: Water

Date Received: 10/20/22 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			995.67 mL	1.0 g	587465	10/27/22 08:16	BMP	EET SL
Total/NA	Analysis	9315		1			590652	11/19/22 22:20	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			995.67 mL	1.0 g	587470	10/27/22 08:57	BMP	EET SL
Total/NA	Analysis	9320		1			590173	11/15/22 12:13	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			590897	11/21/22 17:37	CAH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-13

Lab Sample ID: 180-146554-6

Date Collected: 10/19/22 11:57

Matrix: Water

Date Received: 10/20/22 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			750.87 mL	1.0 g	587465	10/27/22 08:16	BMP	EET SL
Total/NA	Analysis	9315		1			590652	11/19/22 22:21	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.87 mL	1.0 g	587470	10/27/22 08:57	BMP	EET SL
Total/NA	Analysis	9320		1			590173	11/15/22 12:13	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			590897	11/21/22 17:37	CAH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-15

Lab Sample ID: 180-146554-7

Date Collected: 10/19/22 13:13

Matrix: Water

Date Received: 10/20/22 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			755.75 mL	1.0 g	587465	10/27/22 08:16	BMP	EET SL
Total/NA	Analysis	9315		1			590652	11/19/22 22:21	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			755.75 mL	1.0 g	587470	10/27/22 08:57	BMP	EET SL
Total/NA	Analysis	9320		1			590173	11/15/22 12:13	FLC	EET SL
Instrument ID: GFPCBLUE										

Lab Chronicle

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

Job ID: 180-146554-2

Client Sample ID: APMW-15

Lab Sample ID: 180-146554-7

Date Collected: 10/19/22 13:13

Matrix: Water

Date Received: 10/20/22 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	Ra226_Ra228		1			590897	11/21/22 17:37	CAH	EET SL

Client Sample ID: APMW-16

Lab Sample ID: 180-146554-8

Date Collected: 10/19/22 14:19

Matrix: Water

Date Received: 10/20/22 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			755.26 mL	1.0 g	587465	10/27/22 08:16	BMP	EET SL
Total/NA	Analysis	9315		1			590652	11/19/22 22:21	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			755.26 mL	1.0 g	587470	10/27/22 08:57	BMP	EET SL
Total/NA	Analysis	9320		1			590173	11/15/22 12:14	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			590897	11/21/22 17:37	CAH	EET SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: EET SL

Batch Type: Prep

BMP = Bailey Pinette

Batch Type: Analysis

CAH = Chris Hough

FLC = Fernando Cruz

Client Sample Results

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

Job ID: 180-146554-2

Client Sample ID: APMW-8D

Lab Sample ID: 180-146554-1

Date Collected: 10/18/22 15:26

Matrix: Water

Date Received: 10/20/22 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.175		0.114	0.115	1.00	0.160	pCi/L	10/27/22 08:16	11/19/22 22:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					10/27/22 08:16	11/19/22 22:20	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.944		0.358	0.369	1.00	0.437	pCi/L	10/27/22 08:57	11/15/22 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.3		40 - 110					10/27/22 08:57	11/15/22 12:13	1
Y Carrier	82.6		40 - 110					10/27/22 08:57	11/15/22 12:13	1

Method: TAL-STL 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		0.376	0.387	5.00	0.437	pCi/L		11/21/22 17:37	1

Client Sample Results

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

Job ID: 180-146554-2

Client Sample ID: APMW-7

Lab Sample ID: 180-146554-2

Date Collected: 10/18/22 16:55

Matrix: Water

Date Received: 10/20/22 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.95		0.390	0.472	1.00	0.191	pCi/L	10/27/22 08:16	11/19/22 22:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					10/27/22 08:16	11/19/22 22:20	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.56		0.886	1.07	1.00	0.647	pCi/L	10/27/22 08:57	11/15/22 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					10/27/22 08:57	11/15/22 12:13	1
Y Carrier	84.9		40 - 110					10/27/22 08:57	11/15/22 12:13	1

Method: TAL-STL 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	9.51		0.968	1.17	5.00	0.647	pCi/L		11/21/22 17:37	1

Client Sample Results

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

Job ID: 180-146554-2

Client Sample ID: EB-02

Lab Sample ID: 180-146554-3

Date Collected: 10/18/22 16:32

Matrix: Water

Date Received: 10/20/22 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0979	U	0.0970	0.0974	1.00	0.153	pCi/L	10/27/22 08:16	11/19/22 22:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					10/27/22 08:16	11/19/22 22:20	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.567		0.350	0.354	1.00	0.517	pCi/L	10/27/22 08:57	11/15/22 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					10/27/22 08:57	11/15/22 12:13	1
Y Carrier	84.5		40 - 110					10/27/22 08:57	11/15/22 12:13	1

Method: TAL-STL 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	0.665		0.363	0.367	5.00	0.517	pCi/L		11/21/22 17:37	1

Client Sample Results

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

Job ID: 180-146554-2

Client Sample ID: FB-02

Lab Sample ID: 180-146554-4

Date Collected: 10/18/22 16:23

Matrix: Water

Date Received: 10/20/22 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0542	U	0.0946	0.0947	1.00	0.165	pCi/L	10/27/22 08:16	11/19/22 22:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		40 - 110					10/27/22 08:16	11/19/22 22:20	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.115	U	0.280	0.280	1.00	0.494	pCi/L	10/27/22 08:57	11/15/22 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		40 - 110					10/27/22 08:57	11/15/22 12:13	1
Y Carrier	82.6		40 - 110					10/27/22 08:57	11/15/22 12:13	1

Method: TAL-STL 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	0.170	U	0.296	0.296	5.00	0.494	pCi/L		11/21/22 17:37	1

Client Sample Results

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

Job ID: 180-146554-2

Client Sample ID: APMW-14

Lab Sample ID: 180-146554-5

Date Collected: 10/19/22 11:05

Matrix: Water

Date Received: 10/20/22 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.89		0.269	0.318	1.00	0.120	pCi/L	10/27/22 08:16	11/19/22 22:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					10/27/22 08:16	11/19/22 22:20	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.82		0.615	0.708	1.00	0.457	pCi/L	10/27/22 08:57	11/15/22 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					10/27/22 08:57	11/15/22 12:13	1
Y Carrier	83.0		40 - 110					10/27/22 08:57	11/15/22 12:13	1

Method: TAL-STL 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	5.71		0.671	0.776	5.00	0.457	pCi/L		11/21/22 17:37	1

Client Sample Results

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

Job ID: 180-146554-2

Client Sample ID: APMW-13

Lab Sample ID: 180-146554-6

Date Collected: 10/19/22 11:57

Matrix: Water

Date Received: 10/20/22 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.24		0.269	0.291	1.00	0.179	pCi/L	10/27/22 08:16	11/19/22 22:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					10/27/22 08:16	11/19/22 22:21	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.12		0.705	0.731	1.00	0.911	pCi/L	10/27/22 08:57	11/15/22 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					10/27/22 08:57	11/15/22 12:13	1
Y Carrier	83.4		40 - 110					10/27/22 08:57	11/15/22 12:13	1

Method: TAL-STL 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	3.37		0.755	0.787	5.00	0.911	pCi/L		11/21/22 17:37	1

Client Sample Results

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

Job ID: 180-146554-2

Client Sample ID: APMW-15

Lab Sample ID: 180-146554-7

Date Collected: 10/19/22 13:13

Matrix: Water

Date Received: 10/20/22 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.533		0.180	0.186	1.00	0.162	pCi/L	10/27/22 08:16	11/19/22 22:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.6		40 - 110					10/27/22 08:16	11/19/22 22:21	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.60		0.556	0.575	1.00	0.662	pCi/L	10/27/22 08:57	11/15/22 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.6		40 - 110					10/27/22 08:57	11/15/22 12:13	1
Y Carrier	82.2		40 - 110					10/27/22 08:57	11/15/22 12:13	1

Method: TAL-STL 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	2.13		0.584	0.604	5.00	0.662	pCi/L		11/21/22 17:37	1

Client Sample Results

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

Job ID: 180-146554-2

Client Sample ID: APMW-16

Lab Sample ID: 180-146554-8

Date Collected: 10/19/22 14:19

Matrix: Water

Date Received: 10/20/22 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.566		0.193	0.200	1.00	0.187	pCi/L	10/27/22 08:16	11/19/22 22:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					10/27/22 08:16	11/19/22 22:21	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.46		0.710	0.745	1.00	0.837	pCi/L	10/27/22 08:57	11/15/22 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					10/27/22 08:57	11/15/22 12:14	1
Y Carrier	81.1		40 - 110					10/27/22 08:57	11/15/22 12:14	1

Method: TAL-STL 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	3.02		0.736	0.771	5.00	0.837	pCi/L		11/21/22 17:37	1

QC Sample Results

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

Job ID: 180-146554-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-587465/1-A
Matrix: Water
Analysis Batch: 590652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 587465

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.07583	U	0.0811	0.0814	1.00	0.129	pCi/L	10/27/22 08:16	11/19/22 22:20	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	103		40 - 110		10/27/22 08:16	11/19/22 22:20	1			

Lab Sample ID: LCS 160-587465/2-A
Matrix: Water
Analysis Batch: 590652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 587465

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.722		1.06	1.00	0.147	pCi/L	86	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	99.3		40 - 110						

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-587470/1-A
Matrix: Water
Analysis Batch: 590173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 587470

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.3866	U	0.305	0.307	1.00	0.471	pCi/L	10/27/22 08:57	11/15/22 12:12	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	103		40 - 110		10/27/22 08:57	11/15/22 12:12	1			
Y Carrier	83.4		40 - 110		10/27/22 08:57	11/15/22 12:12	1			

Lab Sample ID: LCS 160-587470/2-A
Matrix: Water
Analysis Batch: 590173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 587470

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.44	9.019		1.20	1.00	0.449	pCi/L	107	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	99.3		40 - 110						
Y Carrier	86.7		40 - 110						

QC Association Summary

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

Job ID: 180-146554-2

Rad

Prep Batch: 587465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146554-1	APMW-8D	Total/NA	Water	PrecSep-21	
180-146554-2	APMW-7	Total/NA	Water	PrecSep-21	
180-146554-3	EB-02	Total/NA	Water	PrecSep-21	
180-146554-4	FB-02	Total/NA	Water	PrecSep-21	
180-146554-5	APMW-14	Total/NA	Water	PrecSep-21	
180-146554-6	APMW-13	Total/NA	Water	PrecSep-21	
180-146554-7	APMW-15	Total/NA	Water	PrecSep-21	
180-146554-8	APMW-16	Total/NA	Water	PrecSep-21	
MB 160-587465/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-587465/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 587470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146554-1	APMW-8D	Total/NA	Water	PrecSep_0	
180-146554-2	APMW-7	Total/NA	Water	PrecSep_0	
180-146554-3	EB-02	Total/NA	Water	PrecSep_0	
180-146554-4	FB-02	Total/NA	Water	PrecSep_0	
180-146554-5	APMW-14	Total/NA	Water	PrecSep_0	
180-146554-6	APMW-13	Total/NA	Water	PrecSep_0	
180-146554-7	APMW-15	Total/NA	Water	PrecSep_0	
180-146554-8	APMW-16	Total/NA	Water	PrecSep_0	
MB 160-587470/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-587470/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Client Information Client Contact: Rick Henderson / Laura Hagenbach SCS Contacts: Brown, Shali Phone: 850 330 0192 E-Mail: shall.brown@eurofinset.com Lab PM: Brown, Shali Carrier Tracking No(s): Job #: 1 of 1 COC No:		Analysis Requested 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate 6020B/7470 Custom 14 (Appl/II/APVI) + Mercury 9315_Ra226 Radium 226 9320_Ra228 Radium 228 Combined RAD		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 - AsH2O2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - other (specify)							
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: SSONW#:		Special Instructions (Note): 180-146554 Chain of Custody									
Sample Identification APMN-8D APMN-17 EB-02 FB-02 APMN-14 APMN-13 APMN-15 APMN-16 Ash 11/19/22		Matrix (W=Water, S=solid, O=Other, T=Tissue, A=Air) W W W W W W W W W		Sample Type (C=Comp, G=grab) G G G G G G G G		Sample Date 10-18-22 10-18-22 10-18-22 10-18-22 10-19-22 10-19-22 10-19-22 10-19-22		Sample Time 1526 1655 1632 1633 1105 1157 1313 1419		Analysis Requested 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate 6020B/7470 Custom 14 (Appl/II/APVI) + Mercury 9315_Ra226 Radium 226 9320_Ra228 Radium 228 Combined RAD	
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		Deliverable Requested: I, II, III, IV, Other (specify)		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:		Method of Shipment:							
Relinquished by: [Signature] Relinquished by: [Signature]		Date/Time: 10-19-22 1534 Date/Time:		Date/Time: 10-20-22 9:00 Date/Time:							
Relinquished by:		Date/Time:		Date/Time:							
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:							

THE LEADER IN ENVIRONMENTAL

ORIGIN ID: GTYA (850) 336-0192
RICK HAGENDORFER
RDH SAMPLING
10998A COUNTY ROAD 97

SHIP DATE: 13OCT22
ACTWGT: 50.00 LB MAN
CAD: 0129689/CAFE3511

ELBERTA, AL 36530
UNITED STATES US

TO

TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238-2907

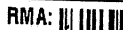
(412) 983-7058

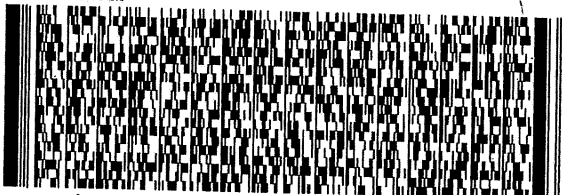
INV:

REF:

PO:

DEPT:

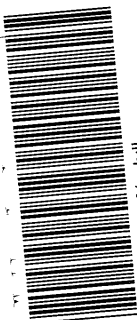
RMA: 



FedEx
Express



J2110210121101 UV



180-146554 Waybill

FedEx

TRK# 5881 4550 7719
0221

THU - 20 OCT 10:30A
PRIORITY OVERNIGHT

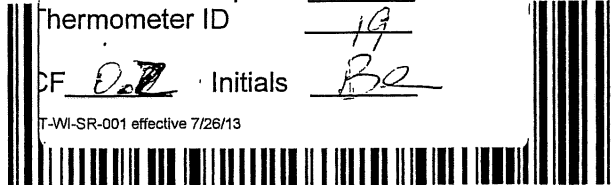
XN AGCA

15238
PA-US PIT

Uncorrected temp 20.6 °C
Thermometer ID 19

DF DoD Initials BR

T-WI-SR-001 effective 7/26/13



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- 3
- 4
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- 14

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

10:30 A
7708
10:20

RT 98

ORIGIN ID: GTYA (850) 336-0192
RICK HAGENROD
RDH SAMPLING
10998A COUNTY ROAD 97

13OCT22
2.00 LB MAX
29689/CAFE3511

ELBERTA, AL 36530
UNITED STATES US

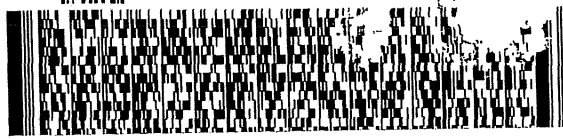
TO

TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238-2907

(412) 983-7058
INU:
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REF:
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RMA: ||| ||| |||



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Express



FedEx

TRK# 5881 4550 7708
0221

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PRIORITY OVERNIGHT

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CF _____ Initials VC

PT-WI-SR-001 effective 7/26/13

Uncorrected temp

Uncorrected temp 20.6 °C
Thermometer ID 18

CF 002 Initials BC

PT-WI-SR-001 effective 7/26/13

4573711 10/19 58111/ACSF/FE2D

4 MW EXP 09/23

570C1/ACSF/130C1

AN101121/09/11/12

1/23

Svos: Ph...

1704

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

31/MTW EXP 06/23

ORIGIN ID: GTYA (850) 336-0192
RICK HAGENDORFER
RDH SAMPLING
10998A COUNTY ROAD 97

SHIP DATE: 13OCT22
ACTWGT: 50.00 LB MAN
CAD: 0129689/CAFE3511

ELBERTA, AL 36530
UNITED STATES US

TO

TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA

(412) 983-7058

REF

RT 98

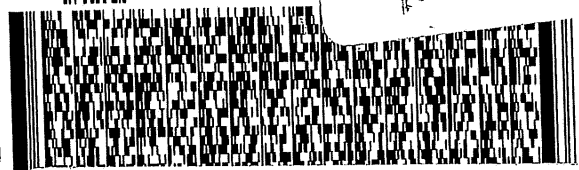
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PRIORITY OVERNIGHT

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PT-WI-SR-001 effective

Uncorrected temp

Uncorrected temp
thermometer ID

CF 002 Initials

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19

Initials

15238

PA-US

PIT

PT-WI-SR-001 effective 7/26/13



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Svcs: PRIORITY OVERNIGHT Master 5881 4550 7708
TRCK: 5881 4550 7720

Part # 159469-434 MTW EXP 06/23

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID: GTYA (850) 336-0192
RICK HAGENDORFER
RDH SAMPLING
10998A COUNTY ROAD 97

SHIP DATE: 13OCT22
ACTWGT: 50.00 LB MAN
CAD: 0129689/CAPE3511

ELBERTA, AL 36530
UNITED STATES US

TO

TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238-2907

(412) 983-7058

REF

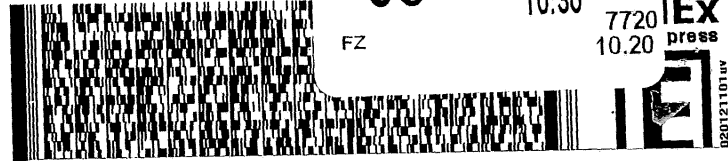
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PRIORITY OVERNIGHT

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PA-US PI

Uncorrected temp
thermometer ID

2.5°C
19

PF 0.2 Initials BE



Effective 7/26/13

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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): 180-472155-1
Shipping/Receiving Company: TestAmerica Laboratories, Inc.		E-Mail: Shali.Brown@et.eurofins.com	Page: Page 1 of 1
Address: 13715 Rider Trail North, Earth City, MO, 63045		State of Origin: Georgia	Job #: 180-146554-2
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Accreditations Required (See note):	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 Y - Trizma Z - other (specify) Other:
Due Date Requested: 11/21/2022		Analysis Requested	
TAT Requested (days):		Total Number of containers	
PO #		930_Ra228/PreSep_0 Radium 228	
WO #		935_Ra226/PreSep_21 Radium 226	
Project # 18020186		R226Ra228 GFC/ Combined Radium 226 and Radium 228	
Site SSOW#		Special Instructions/Note:	
Sample Identification - Client ID (Lab ID)			
APMW-80 (180-146554-1)	Sample Date: 10/18/22	Sample Time: 15:26 Eastern	Matrix: Water
APMW-7 (180-146554-2)	Sample Date: 10/18/22	Sample Time: 16:55 Eastern	Matrix: Water
EB-02 (180-146554-3)	Sample Date: 10/18/22	Sample Time: 16:32 Eastern	Matrix: Water
FB-02 (180-146554-4)	Sample Date: 10/18/22	Sample Time: 16:23 Eastern	Matrix: Water
APMW-14 (180-146554-5)	Sample Date: 10/19/22	Sample Time: 11:05 Eastern	Matrix: Water
APMW-13 (180-146554-6)	Sample Date: 10/19/22	Sample Time: 11:57 Eastern	Matrix: Water
APMW-15 (180-146554-7)	Sample Date: 10/19/22	Sample Time: 13:13 Eastern	Matrix: Water
APMW-16 (180-146554-8)	Sample Date: 10/19/22	Sample Time: 14:19 Eastern	Matrix: Water
<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/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: _____ Date: _____ Time: _____			
Relinquished by: _____ Date/Time: _____ Company: _____			
Relinquished by: _____ Date/Time: _____ Company: _____			
Relinquished by: _____ Date/Time: _____ Company: _____			
Custody Seals Intact: _____ 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: _____			
Date/Time: _____ Company: _____			
Date/Time: _____ Company: _____			
Date/Time: _____ Company: _____			
Date/Time: _____ Company: _____			



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-146554-2

Login Number: 146554

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: 180-146554-2

Login Number: 146554

List Number: 2

Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis

List Creation: 10/24/22 01:51 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	



Eurofins Pittsburgh

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Pittsburgh and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Pittsburgh Project Manager or designee who has signed this report.

PA Lab ID: 02-00416

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

Authorization



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

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

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

Generated 12/13/2022 9:42:46 PM

JOB DESCRIPTION

Plant Watson Ash Pond Surface Water

JOB NUMBER

180-146725-1

Eurofins Pittsburgh

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Pittsburgh and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Pittsburgh Project Manager or designee who has signed this report.

PA Lab ID: 02-00416

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

Authorization



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



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions/Glossary	6
Certification Summary	7
Sample Summary	8
Method Summary	9
Lab Chronicle	10
Client Sample Results	35
QC Sample Results	85
QC Association Summary	104
Chain of Custody	118
Receipt Checklists	137

Case Narrative

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

Job ID: 180-146725-1

Job ID: 180-146725-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-146725-1

Comments

No additional comments.

Receipt

The samples were received on 10/22/2022 2:24 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 11 coolers at receipt time were 2.1° C, 2.3° C, 2.3° C, 2.4° C, 2.4° C, 2.5° C, 2.7° C, 2.8° C, 2.8° C, 2.9° C and 2.9° C.

Receipt Exceptions

The following samples were listed on the Chain of Custody (COC); however, no samples were received: SW-6-1' (180-146725-19), SW-6-1' (180-146725-20), SW-9-1' (180-146725-23) and SW-9-1' (180-146725-24). These samples showed up in Lancaster; they shipped them to Pittsburg for analysis.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): DUP-01 (180-146725-41). The container labels list a sample collection time of 15:11 while the COC lists 15:20. The time on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): DUP-01 (180-146725-42). The container labels list a sample collection time of 15:20 while the COC lists 11:51. The time on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): DUP-02 (180-146725-43). The container labels list a sample collection time of 12:06 while the COC lists 12:15. The time on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): DUP-02 (180-146725-44). The container labels list a sample collection time of 12:15 while the COC lists 12:06. The time on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): DUP-03 (180-146725-45). The container labels list a sample collection time of 16:09 while the COC lists 16:20. The time on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): DUP-03 (180-146725-50). The container labels list a sample collection time of 16:20 while the COC lists 16:09. The time on the COC was used.

GC Semi VOA

Method 300.0: The following samples were diluted due to the nature of the sample matrix: SW-1-1' (180-146725-1), SW-1-1' (180-146725-2), SW-1-7' (180-146725-3), SW-1-7' (180-146725-4), SW-2-1' (180-146725-5), SW-2-1' (180-146725-6), SW-2-7' (180-146725-7), SW-2-7' (180-146725-8), SW-3-1' (180-146725-9), (180-146725-C-1 MS) and (180-146725-C-1 MSD). Elevated reporting limits (RLs) are provided. Dilutions are based on conductivity results of sample.

Method 300.0: The following sample was diluted due to the nature of the sample matrix: SW-4-1.5' (180-146725-14) and SW-5-1' (180-146725-15). Elevated reporting limits (RLs) are provided. Dilutions based on conductivity results of sample.

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: SW-5-1' (180-146725-16), SW-5-13' (180-146725-17), SW-5-13' (180-146725-18). Elevated reporting limits (RLs) are provided.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for fluoride analytical batch 180-416135 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 300.0: The continuing calibration blank (CCB) for analytical batch 180-416391 contained Chloride above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 300.0: The laboratory control sample (LCS) for analytical batch 180-416391 recovered outside control limits for the following

Case Narrative

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

Job ID: 180-146725-1

Job ID: 180-146725-1 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

analytes: Fluoride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 300.0: The following samples were diluted due to the nature of the sample matrix: SW-6-1' (180-146725-19), SW-11-1' (180-146725-29), SW-11-1' (180-146725-30), SW-12-1' (180-146725-31), SW-12-1' (180-146725-32), SW-13-1' (180-146725-33), SW-13-1' (180-146725-34), SW-14-1'.5' (180-146725-35), SW-14-1'.5' (180-146725-36), SW-15-1'.5' (180-146725-37), SW-16-1'.5' (180-146725-39), DUP-01 (180-146725-41), DUP-01 (180-146725-42), DUP-02 (180-146725-43) and DUP-02 (180-146725-44). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were diluted due to the nature of the sample matrix: SW-9-1' (180-146725-24), SW-9-4' (180-146725-25), SW-9-4' (180-146725-26), SW-10-2' (180-146725-27), SW-10-2' (180-146725-28), SW-15-1'.5' (180-146725-38), SW-16-1'.5' (180-146725-40), DUP-03 (180-146725-45) and DUP-03 (180-146725-50). Elevated reporting limits (RLs) are provided.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for fluoride analytical batch 180-416297 and 180-416571 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 300.0: The following samples were diluted due to the nature of the sample matrix: SW-3-1' (180-146725-10), SW-3-4' (180-146725-11), SW-3-4' (180-146725-12), SW-4-1.5' (180-146725-13), SW-6-9'.5' (180-146725-21), SW-6-9'.5' (180-146725-22), (180-146725-C-10 MS) and (180-146725-C-10 MSD). Elevated reporting limits (RLs) are provided. Dilutions based on conductivity results of sample.

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: SW-6-1' (180-146725-20) and SW-9-1' (180-146725-23). 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.

Metals

Method 6020B: The post digestion spike % recovery for barium associated with batch 180-417094 and 180-417223 was outside of control limits. The associated sample is: SW-13-1' (180-146725-33).

Method 6020B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-416775 and analytical batch 180-417223 were outside control limits for calcium. 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.

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 Surface Water

Job ID: 180-146725-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
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.
E	Result exceeded calibration range.
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
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.

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 Surface Water

Job ID: 180-146725-1

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	04-30-23
Connecticut	State	PH-0688	09-30-22 *
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	06-30-23
Kansas	NELAP	E-10350	03-31-23
Kentucky (UST)	State	162013	04-30-23
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-22
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	04-30-23
Oregon	NELAP	PA-2151	02-07-23
Pennsylvania	NELAP	02-00416	04-30-23
Rhode Island	State	LAO00362	12-31-22
South Carolina	State	89014	04-20-23
Texas	NELAP	T104704528	03-31-23
US Fish & Wildlife	US Federal Programs	058448	03-31-23
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-31-23
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-23

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



Sample Summary

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

Job ID: 180-146725-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-146725-1	SW-1-1'	Water	10/20/22 17:09	10/22/22 14:24
180-146725-2	SW-1-1'	Water	10/20/22 17:20	10/22/22 14:24
180-146725-3	SW-1-7'	Water	10/20/22 17:39	10/22/22 14:24
180-146725-4	SW-1-7'	Water	10/20/22 17:47	10/22/22 14:24
180-146725-5	SW-2-1'	Water	10/20/22 16:11	10/22/22 14:24
180-146725-6	SW-2-1'	Water	10/20/22 16:20	10/22/22 14:24
180-146725-7	SW-2-7'	Water	10/20/22 16:49	10/22/22 14:24
180-146725-8	SW-2-7'	Water	10/20/22 16:59	10/22/22 14:24
180-146725-9	SW-3-1'	Water	10/20/22 08:45	10/22/22 14:24
180-146725-10	SW-3-1'	Water	10/20/22 08:53	10/22/22 14:24
180-146725-11	SW-3-4'	Water	10/20/22 09:13	10/22/22 14:24
180-146725-12	SW-3-4'	Water	10/20/22 09:20	10/22/22 14:24
180-146725-13	SW-4-1.5'	Water	10/20/22 10:41	10/22/22 14:24
180-146725-14	SW-4-1.5'	Water	10/20/22 10:49	10/22/22 14:24
180-146725-15	SW-5-1'	Water	10/20/22 12:12	10/22/22 14:24
180-146725-16	SW-5-1'	Water	10/20/22 12:17	10/22/22 14:24
180-146725-17	SW-5-13'	Water	10/20/22 11:56	10/22/22 14:24
180-146725-18	SW-5-13'	Water	10/20/22 12:01	10/22/22 14:24
180-146725-19	SW-6-1'	Water	10/20/22 11:28	10/22/22 14:24
180-146725-20	SW-6-1'	Water	10/20/22 11:33	10/22/22 14:24
180-146725-21	SW-6-9'.5'	Water	10/20/22 11:03	10/22/22 14:24
180-146725-22	SW-6-9'.5'	Water	10/20/22 11:08	10/22/22 14:24
180-146725-23	SW-9-1'	Water	10/20/22 10:38	10/22/22 14:24
180-146725-24	SW-9-1'	Water	10/20/22 10:53	10/22/22 14:24
180-146725-25	SW-9-4'	Water	10/20/22 10:20	10/22/22 14:24
180-146725-26	SW-9-4'	Water	10/20/22 10:25	10/22/22 14:24
180-146725-27	SW-10-2'	Water	10/20/22 09:46	10/22/22 14:24
180-146725-28	SW-10-2'	Water	10/20/22 09:51	10/22/22 14:24
180-146725-29	SW-11-1'	Water	10/20/22 09:23	10/22/22 14:24
180-146725-30	SW-11-1'	Water	10/20/22 09:28	10/22/22 14:24
180-146725-31	SW-12-1'	Water	10/20/22 08:56	10/22/22 14:24
180-146725-32	SW-12-1'	Water	10/20/22 09:01	10/22/22 14:24
180-146725-33	SW-13-1'	Water	10/20/22 14:20	10/22/22 14:24
180-146725-34	SW-13-1'	Water	10/20/22 14:29	10/22/22 14:24
180-146725-35	SW-14-1'.5'	Water	10/20/22 11:36	10/22/22 14:24
180-146725-36	SW-14-1'.5'	Water	10/20/22 11:44	10/22/22 14:24
180-146725-37	SW-15-1'.5'	Water	10/20/22 12:07	10/22/22 14:24
180-146725-38	SW-15-1'.5'	Water	10/20/22 12:15	10/22/22 14:24
180-146725-39	SW-16-1'.5'	Water	10/20/22 13:06	10/22/22 14:24
180-146725-40	SW-16-1'.5'	Water	10/20/22 13:15	10/22/22 14:24
180-146725-41	DUP-01	Water	10/20/22 15:20	10/22/22 14:24
180-146725-42	DUP-01	Water	10/20/22 11:51	10/22/22 14:24
180-146725-43	DUP-02	Water	10/20/22 12:15	10/22/22 14:24
180-146725-44	DUP-02	Water	10/20/22 12:06	10/22/22 14:24
180-146725-45	DUP-03	Water	10/20/22 16:20	10/22/22 14:24
180-146725-46	EB-01	Water	10/20/22 07:15	10/22/22 14:24
180-146725-47	FB-01	Water	10/20/22 07:29	10/22/22 14:24
180-146725-48	EB-02	Water	10/20/22 18:01	10/22/22 14:24
180-146725-49	FB-02	Water	10/20/22 18:10	10/22/22 14:24
180-146725-50	DUP-03	Water	10/20/22 16:09	10/22/22 14:24

Method Summary

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

Job ID: 180-146725-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	EET PIT
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	EET PIT
EPA 6020B	Metals (ICP/MS)	SW846	EET PIT
EPA 7470A	Mercury (CVAA)	SW846	EET PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
7470A	Preparation, Mercury	SW846	EET 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:

EET 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 Surface Water

Job ID: 180-146725-1

Client Sample ID: SW-1-1'
Date Collected: 10/20/22 17:09
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-1
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		2.5	1 mL	1 mL	416135	10/25/22 22:17	M1D	EET PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		25	1 mL	1 mL	416135	10/25/22 23:12	M1D	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	416893	11/01/22 14:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417114	11/02/22 14:41	RSK	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	416893	11/01/22 14:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417224	11/03/22 14:38	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	416608	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			417081	11/02/22 14:34	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	416245	10/26/22 08:57	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-1-1'
Date Collected: 10/20/22 17:20
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-2
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		2.5	1 mL	1 mL	416135	10/25/22 19:49	M1D	EET PIT
Instrument ID: INTEGRION										
Dissolved	Analysis	EPA 300.0 R2.1		25	1 mL	1 mL	416135	10/25/22 20:08	M1D	EET PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			25 mL	25 mL	416893	11/01/22 14:05	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			420164	12/07/22 14:21	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	416893	11/01/22 14:05	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417114	11/02/22 14:54	RSK	EET PIT
Instrument ID: DORY										
Dissolved	Prep	7470A			25 mL	25 mL	416608	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			417081	11/02/22 14:37	RJR	EET PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	10 mL	100 mL	416426	10/27/22 10:45	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-1-7'
Date Collected: 10/20/22 17:39
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-3
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		2.5	1 mL	1 mL	416135	10/25/22 20:26	M1D	EET PIT
Instrument ID: INTEGRION										

Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: SW-1-7'
Date Collected: 10/20/22 17:39
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-3
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	1 mL	1 mL	416135	10/25/22 20:44	M1D	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416893	11/01/22 14:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417114	11/02/22 15:14	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	416608	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			417081	11/02/22 14:38	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	416426	10/27/22 10:45	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-1-7'
Date Collected: 10/20/22 17:47
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-4
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		2.5	1 mL	1 mL	416135	10/25/22 21:03	M1D	EET PIT
Instrument ID: INTEGRION										
Dissolved	Analysis	EPA 300.0 R2.1		25	1 mL	1 mL	416135	10/25/22 21:22	M1D	EET PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			25 mL	25 mL	416893	11/01/22 14:05	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417114	11/02/22 15:28	RSK	EET PIT
Instrument ID: DORY										
Dissolved	Prep	7470A			25 mL	25 mL	416608	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			417081	11/02/22 14:39	RJR	EET PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	10 mL	100 mL	416326	10/26/22 14:40	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-2-1'
Date Collected: 10/20/22 16:11
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-5
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		2.5	1 mL	1 mL	416135	10/26/22 00:08	M1D	EET PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		25	1 mL	1 mL	416135	10/26/22 00:26	M1D	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	416893	11/01/22 14:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417114	11/02/22 15:41	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	416608	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			417081	11/02/22 14:40	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	416326	10/26/22 14:40	LWM	EET PIT
Instrument ID: NOEQUIP										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: SW-2-1'

Date Collected: 10/20/22 16:20

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-6

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: INTEGRION		2.5	1 mL	1 mL	416135	10/26/22 00:45	M1D	EET PIT
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		25	1 mL	1 mL	416135	10/26/22 01:03	M1D	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416774	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			416939	11/01/22 18:25	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417366	11/04/22 20:00	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 16:07	RSK	EET PIT
Dissolved	Prep	7470A			25 mL	25 mL	416608	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 14:44	RJR	EET PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	416326	10/26/22 14:40	LWM	EET PIT

Client Sample ID: SW-2-7'

Date Collected: 10/20/22 16:49

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-7

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	300.0 Instrument ID: INTEGRION		2.5	1 mL	1 mL	416135	10/26/22 01:58	M1D	EET PIT
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		25	1 mL	1 mL	416135	10/26/22 02:17	M1D	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416774	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			416939	11/01/22 18:36	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417366	11/04/22 20:14	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 16:21	RSK	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	416608	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 14:45	RJR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	416326	10/26/22 14:40	LWM	EET PIT

Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: SW-2-7'

Date Collected: 10/20/22 16:59

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-8

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: INTEGRION		2.5	1 mL	1 mL	416135	10/26/22 02:35	M1D	EET PIT
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		25	1 mL	1 mL	416135	10/26/22 02:54	M1D	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416774	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			416939	11/01/22 18:50	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417366	11/04/22 20:29	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 16:36	RSK	EET PIT
Dissolved	Prep	7470A			25 mL	25 mL	416608	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 14:46	RJR	EET PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	416326	10/26/22 14:40	LWM	EET PIT

Client Sample ID: SW-3-1'

Date Collected: 10/20/22 08:45

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-9

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 Instrument ID: INTEGRION		2.5	1 mL	1 mL	416135	10/26/22 03:12	M1D	EET PIT
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		25	1 mL	1 mL	416135	10/26/22 03:31	M1D	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416774	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			416939	11/01/22 19:05	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417366	11/04/22 20:43	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 16:50	RSK	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	416608	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 14:47	RJR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	416326	10/26/22 14:40	LWM	EET PIT

Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: SW-3-1'

Date Collected: 10/20/22 08:53

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-10

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: INTEGRION		2.5	1 mL	1 mL	416297	10/26/22 19:54	M1D	EET PIT
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		25	1 mL	1 mL	416297	10/26/22 20:49	M1D	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416774	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			416939	11/01/22 19:19	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417366	11/04/22 20:58	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 17:05	RSK	EET PIT
Dissolved	Prep	7470A			25 mL	25 mL	416608	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 14:48	RJR	EET PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	416326	10/26/22 14:40	LWM	EET PIT

Client Sample ID: SW-3-4'

Date Collected: 10/20/22 09:13

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-11

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 Instrument ID: INTEGRION		2.5	1 mL	1 mL	416297	10/26/22 22:40	M1D	EET PIT
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		25	1 mL	1 mL	416297	10/26/22 22:58	M1D	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416774	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			416939	11/01/22 19:34	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417366	11/04/22 21:12	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 17:26	RSK	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	416608	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 14:50	RJR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	416326	10/26/22 14:40	LWM	EET PIT

Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: SW-3-4'
Date Collected: 10/20/22 09:20
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-12
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: INTEGRION		2.5	1 mL	1 mL	416297	10/26/22 23:16	M1D	EET PIT
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		25	1 mL	1 mL	416297	10/26/22 23:35	M1D	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416774	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			416939	11/01/22 19:48	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417366	11/04/22 21:27	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 17:41	RSK	EET PIT
Dissolved	Prep	7470A			25 mL	25 mL	416608	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 14:51	RJR	EET PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	416326	10/26/22 14:40	LWM	EET PIT

Client Sample ID: SW-4-1.5'
Date Collected: 10/20/22 10:41
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		2.5	1 mL	1 mL	416297	10/26/22 23:53	M1D	EET PIT
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		25	1 mL	1 mL	416297	10/27/22 00:12	M1D	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416774	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			416939	11/01/22 20:10	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417366	11/04/22 21:41	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 17:55	RSK	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	416608	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 14:52	RJR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	416326	10/26/22 14:40	LWM	EET PIT

Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: SW-4-1.5'

Lab Sample ID: 180-146725-14

Date Collected: 10/20/22 10:49

Matrix: Water

Date Received: 10/22/22 14:24

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	1 mL	1 mL	416135	10/26/22 09:21	M1D	EET PIT
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		10	1 mL	1 mL	416135	10/26/22 09:40	M1D	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416774	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			416939	11/01/22 20:21	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417366	11/04/22 22:03	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 18:10	RSK	EET PIT
Dissolved	Prep	7470A			25 mL	25 mL	416608	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 14:53	RJR	EET PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	416426	10/27/22 10:45	LWM	EET PIT

Client Sample ID: SW-5-1'

Lab Sample ID: 180-146725-15

Date Collected: 10/20/22 12:12

Matrix: Water

Date Received: 10/22/22 14:24

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		1	1 mL	1 mL	416135	10/26/22 09:58	M1D	EET PIT
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		10	1 mL	1 mL	416135	10/26/22 10:17	M1D	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416774	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			416939	11/01/22 21:08	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417366	11/04/22 23:04	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 19:11	RSK	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	416608	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 14:54	RJR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	15 mL	100 mL	416426	10/27/22 10:45	LWM	EET PIT

Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: SW-5-1'

Date Collected: 10/20/22 12:17

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-16

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: INTEGRION		1	1 mL	1 mL	416135	10/26/22 10:35	M1D	EET PIT
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		10	1 mL	1 mL	416135	10/26/22 10:54	M1D	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416774	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			416939	11/01/22 21:18	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417366	11/04/22 23:19	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 19:33	RSK	EET PIT
Dissolved	Prep	7470A			25 mL	25 mL	416608	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 14:58	RJR	EET PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	15 mL	100 mL	416326	10/26/22 14:40	LWM	EET PIT

Client Sample ID: SW-5-13'

Date Collected: 10/20/22 11:56

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-17

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: INTEGRION		2.5	1 mL	1 mL	416135	10/26/22 11:12	M1D	EET PIT
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		25	1 mL	1 mL	416135	10/26/22 11:31	M1D	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416774	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			416939	11/01/22 21:29	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417366	11/04/22 23:33	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 19:47	RSK	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	416608	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 14:59	RJR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	5 mL	100 mL	416326	10/26/22 14:40	LWM	EET PIT

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Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: SW-5-13'

Lab Sample ID: 180-146725-18

Date Collected: 10/20/22 12:01

Matrix: Water

Date Received: 10/22/22 14:24

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		2.5	1 mL	1 mL	416135	10/26/22 11:49	M1D	EET PIT
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		25	1 mL	1 mL	416135	10/26/22 12:08	M1D	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416774	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			416939	11/01/22 21:51	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417366	11/04/22 23:47	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 20:02	RSK	EET PIT
Dissolved	Prep	7470A			25 mL	25 mL	416608	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 15:00	RJR	EET PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	5 mL	100 mL	416326	10/26/22 14:40	LWM	EET PIT

Client Sample ID: SW-6-1'

Lab Sample ID: 180-146725-19

Date Collected: 10/20/22 11:28

Matrix: Water

Date Received: 10/22/22 14:24

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		2.5			416391	10/27/22 18:24	SNL	EET PIT
Total/NA	Analysis	300.0 Instrument ID: CHIC2100A		25			416391	10/27/22 18:38	SNL	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416774	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			416939	11/01/22 22:05	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417366	11/05/22 00:02	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 20:16	RSK	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	416608	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 15:01	RJR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	416307	10/26/22 13:33	LWM	EET PIT

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Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: SW-6-1'

Date Collected: 10/20/22 11:33

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-20

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 Instrument ID: INTEGRION		1	1 mL	1 mL	416571	10/29/22 02:43	M1D	EET PIT
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		10	1 mL	1 mL	416571	10/29/22 03:02	M1D	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416774	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			416939	11/01/22 22:16	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417366	11/05/22 00:16	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 20:31	RSK	EET PIT
Dissolved	Prep	7470A			25 mL	25 mL	416609	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 15:04	RJR	EET PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	416426	10/27/22 10:45	LWM	EET PIT

Client Sample ID: SW-6-9'.5'

Date Collected: 10/20/22 11:03

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-21

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 Instrument ID: INTEGRION		2.5	1 mL	1 mL	416297	10/27/22 00:30	M1D	EET PIT
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		25	1 mL	1 mL	416297	10/27/22 00:49	M1D	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416774	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			416939	11/01/22 22:27	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417366	11/05/22 00:31	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 20:45	RSK	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	416609	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 15:08	RJR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	416326	10/26/22 14:40	LWM	EET PIT

Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: SW-6-9'.5'

Lab Sample ID: 180-146725-22

Date Collected: 10/20/22 11:08

Matrix: Water

Date Received: 10/22/22 14:24

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		2.5	1 mL	1 mL	416297	10/27/22 01:07	M1D	EET PIT
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		25	1 mL	1 mL	416297	10/27/22 02:02	M1D	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416774	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			416939	11/01/22 22:41	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417366	11/05/22 00:53	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 20:59	RSK	EET PIT
Dissolved	Prep	7470A			25 mL	25 mL	416609	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 15:12	RJR	EET PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	416326	10/26/22 14:40	LWM	EET PIT

Client Sample ID: SW-9-1'

Lab Sample ID: 180-146725-23

Date Collected: 10/20/22 10:38

Matrix: Water

Date Received: 10/22/22 14:24

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		1	1 mL	1 mL	416571	10/29/22 03:20	M1D	EET PIT
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		10	1 mL	1 mL	416571	10/29/22 03:39	M1D	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416774	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			416939	11/01/22 22:56	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417366	11/05/22 01:07	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 21:14	RSK	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	416609	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 15:13	RJR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	416426	10/27/22 10:45	LWM	EET PIT

Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: SW-9-1'
Date Collected: 10/20/22 10:53
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-24
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: INTEGRION		2.5	1 mL	1 mL	416637	10/29/22 23:46	SAB	EET PIT
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		25	1 mL	1 mL	416637	10/30/22 00:04	SAB	EET PIT
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: INTEGRION		2.5			416864	11/02/22 00:29	M1D	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416774	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			416939	11/01/22 23:10	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417366	11/05/22 01:22	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 21:28	RSK	EET PIT
Dissolved	Prep	7470A			25 mL	25 mL	416609	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 15:14	RJR	EET PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	416426	10/27/22 10:45	LWM	EET PIT

Client Sample ID: SW-9-4'
Date Collected: 10/20/22 10:20
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-25
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 Instrument ID: CHICS2100B		2.5			416260	10/26/22 22:29	SNL	EET PIT
Total/NA	Analysis	300.0 Instrument ID: CHICS2100B		25			416260	10/26/22 22:44	SNL	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416774	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			416939	11/01/22 23:25	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417366	11/05/22 01:36	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416987	11/02/22 10:45	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			418005	11/10/22 10:36	RSK	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	416609	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 15:15	RJR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	416245	10/26/22 08:57	LWM	EET PIT

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Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: SW-9-4'
Date Collected: 10/20/22 10:25
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-26
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 Instrument ID: CHICS2100B		2.5			416260	10/26/22 22:59	SNL	EET PIT
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		25			416260	10/26/22 23:14	SNL	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417094	11/02/22 21:14	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417366	11/04/22 13:00	RSK	EET PIT
Dissolved	Prep	7470A			25 mL	25 mL	416609	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 15:16	RJR	EET PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	416245	10/26/22 08:57	LWM	EET PIT

Client Sample ID: SW-10-2'
Date Collected: 10/20/22 09:46
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-27
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 Instrument ID: CHICS2100B		2.5			416260	10/26/22 23:28	SNL	EET PIT
Total/NA	Analysis	300.0 Instrument ID: CHICS2100B		25			416260	10/26/22 23:43	SNL	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417094	11/02/22 21:29	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417366	11/04/22 13:22	RSK	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	416609	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 15:17	RJR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	416192	10/25/22 17:43	LWM	EET PIT

Client Sample ID: SW-10-2'
Date Collected: 10/20/22 09:51
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-28
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		2.5			416260	10/26/22 23:58	SNL	EET PIT

Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: SW-10-2'

Lab Sample ID: 180-146725-28

Date Collected: 10/20/22 09:51

Matrix: Water

Date Received: 10/22/22 14:24

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		25			416260	10/27/22 00:13	SNL	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417094	11/02/22 21:43	RSK	EET PIT
		Instrument ID: A								
Dissolved	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417366	11/04/22 13:33	RSK	EET PIT
		Instrument ID: A								
Dissolved	Prep	7470A			25 mL	25 mL	416609	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			417081	11/02/22 15:18	RJR	EET PIT
		Instrument ID: HGY								
Dissolved	Analysis	SM 2540C		1	10 mL	100 mL	416192	10/25/22 17:43	LWM	EET PIT
		Instrument ID: NOEQUIP								

Client Sample ID: SW-11-1'

Lab Sample ID: 180-146725-29

Date Collected: 10/20/22 09:23

Matrix: Water

Date Received: 10/22/22 14:24

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			416391	10/27/22 18:52	SNL	EET PIT
		Instrument ID: CHIC2100A								
Total/NA	Analysis	300.0		25			416391	10/27/22 19:06	SNL	EET PIT
		Instrument ID: CHIC2100A								
Total Recoverable	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417094	11/02/22 21:54	RSK	EET PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417366	11/04/22 13:44	RSK	EET PIT
		Instrument ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	416609	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			417081	11/02/22 15:19	RJR	EET PIT
		Instrument ID: HGY								
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	416192	10/25/22 17:43	LWM	EET PIT
		Instrument ID: NOEQUIP								

Client Sample ID: SW-11-1'

Lab Sample ID: 180-146725-30

Date Collected: 10/20/22 09:28

Matrix: Water

Date Received: 10/22/22 14:24

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		2.5			416391	10/27/22 19:20	SNL	EET PIT
		Instrument ID: CHIC2100A								
Dissolved	Analysis	EPA 300.0 R2.1		25			416391	10/27/22 20:02	SNL	EET PIT
		Instrument ID: CHIC2100A								

Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: SW-11-1'
Date Collected: 10/20/22 09:28
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417094	11/02/22 22:05	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417366	11/04/22 13:55	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	416609	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			417081	11/02/22 15:20	RJR	EET PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	10 mL	100 mL	416192	10/25/22 17:43	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-12-1'
Date Collected: 10/20/22 08:56
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-31
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		2.5			416391	10/27/22 20:16	SNL	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		25			416391	10/27/22 20:30	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417094	11/02/22 22:16	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417366	11/04/22 14:05	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416609	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			417081	11/02/22 15:21	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	416192	10/25/22 17:43	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-12-1'
Date Collected: 10/20/22 09:01
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-32
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		2.5			416391	10/27/22 20:44	SNL	EET PIT
Instrument ID: CHIC2100A										
Dissolved	Analysis	EPA 300.0 R2.1		25			416391	10/27/22 20:58	SNL	EET PIT
Instrument ID: CHIC2100A										
Dissolved	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417094	11/02/22 22:27	RSK	EET PIT
Instrument ID: A										

Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: SW-12-1'
Date Collected: 10/20/22 09:01
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-32
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417366	11/04/22 14:16	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	416609	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			417081	11/02/22 15:25	RJR	EET PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	10 mL	100 mL	416245	10/26/22 08:57	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-13-1'
Date Collected: 10/20/22 14:20
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-33
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		2.5			416391	10/27/22 21:12	SNL	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		25			416391	10/27/22 21:27	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417094	11/02/22 22:38	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417223	11/03/22 18:37	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417366	11/04/22 14:27	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416609	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			417081	11/02/22 15:26	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	416307	10/26/22 13:33	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-13-1'
Date Collected: 10/20/22 14:29
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-34
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		2.5			416391	10/27/22 21:42	SNL	EET PIT
Instrument ID: CHIC2100A										
Dissolved	Analysis	EPA 300.0 R2.1		25			416391	10/27/22 21:57	SNL	EET PIT
Instrument ID: CHIC2100A										
Dissolved	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417094	11/02/22 23:35	RSK	EET PIT
Instrument ID: A										

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Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: SW-13-1'
Date Collected: 10/20/22 14:29
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417223	11/03/22 19:42	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417366	11/04/22 15:29	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	416609	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			417081	11/02/22 15:28	RJR	EET PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	10 mL	100 mL	416307	10/26/22 13:33	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-14-1'.5'
Date Collected: 10/20/22 11:36
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-35
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		2.5			416391	10/27/22 22:12	SNL	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		25			416391	10/27/22 22:56	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417094	11/02/22 23:46	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417223	11/03/22 19:56	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417366	11/04/22 15:43	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416609	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			417081	11/02/22 15:29	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	416307	10/26/22 13:33	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-14-1'.5'
Date Collected: 10/20/22 11:44
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-36
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		2.5			416391	10/28/22 01:09	SNL	EET PIT
Instrument ID: CHIC2100A										
Dissolved	Analysis	EPA 300.0 R2.1		25			416391	10/28/22 01:53	SNL	EET PIT
Instrument ID: CHIC2100A										

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Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: SW-14-1'.5'

Lab Sample ID: 180-146725-36

Date Collected: 10/20/22 11:44

Matrix: Water

Date Received: 10/22/22 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417094	11/02/22 23:57	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417223	11/03/22 20:10	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417366	11/04/22 15:57	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	416609	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			417081	11/02/22 15:30	RJR	EET PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	15 mL	100 mL	416426	10/27/22 10:45	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-15-1'.5'

Lab Sample ID: 180-146725-37

Date Collected: 10/20/22 12:07

Matrix: Water

Date Received: 10/22/22 14:24

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			416391	10/27/22 23:11	SNL	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		25			416391	10/27/22 23:25	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417094	11/03/22 00:12	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417223	11/03/22 20:25	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417366	11/04/22 16:12	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416609	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			417081	11/02/22 15:31	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	416307	10/26/22 13:33	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-15-1'.5'

Lab Sample ID: 180-146725-38

Date Collected: 10/20/22 12:15

Matrix: Water

Date Received: 10/22/22 14:24

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		2.5			416393	10/27/22 21:39	SNL	EET PIT
Instrument ID: CHICS2100B										

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Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: SW-15-1'.5'

Lab Sample ID: 180-146725-38

Date Collected: 10/20/22 12:15

Matrix: Water

Date Received: 10/22/22 14:24

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		25			416393	10/27/22 21:53	SNL	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417094	11/03/22 00:23	RSK	EET PIT
		Instrument ID: A								
Dissolved	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417223	11/03/22 20:39	RSK	EET PIT
		Instrument ID: A								
Dissolved	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417366	11/04/22 16:26	RSK	EET PIT
		Instrument ID: A								
Dissolved	Prep	7470A			25 mL	25 mL	416609	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			417081	11/02/22 15:32	RJR	EET PIT
		Instrument ID: HGY								
Dissolved	Analysis	SM 2540C		1	10 mL	100 mL	416326	10/26/22 14:40	LWM	EET PIT
		Instrument ID: NOEQUIP								

Client Sample ID: SW-16-1'.5'

Lab Sample ID: 180-146725-39

Date Collected: 10/20/22 13:06

Matrix: Water

Date Received: 10/22/22 14:24

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			416391	10/28/22 02:08	SNL	EET PIT
		Instrument ID: CHIC2100A								
Total/NA	Analysis	300.0		25			416391	10/28/22 02:23	SNL	EET PIT
		Instrument ID: CHIC2100A								
Total Recoverable	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417094	11/03/22 00:44	RSK	EET PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417223	11/03/22 20:54	RSK	EET PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417366	11/04/22 16:41	RSK	EET PIT
		Instrument ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	416610	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			417081	11/02/22 15:35	RJR	EET PIT
		Instrument ID: HGY								
Total/NA	Analysis	SM 2540C		1	15 mL	100 mL	416426	10/27/22 10:45	LWM	EET PIT
		Instrument ID: NOEQUIP								

Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: SW-16-1'.5'

Lab Sample ID: 180-146725-40

Date Collected: 10/20/22 13:15

Matrix: Water

Date Received: 10/22/22 14:24

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		2.5			416393	10/27/22 22:08	SNL	EET PIT
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		25			416393	10/27/22 22:23	SNL	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417094	11/03/22 00:55	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417223	11/03/22 21:16	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417366	11/04/22 16:55	RSK	EET PIT
Dissolved	Prep	7470A			25 mL	25 mL	416610	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 15:42	RJR	EET PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	416307	10/26/22 13:33	LWM	EET PIT

Client Sample ID: DUP-01

Lab Sample ID: 180-146725-41

Date Collected: 10/20/22 15:20

Matrix: Water

Date Received: 10/22/22 14:24

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		2.5			416391	10/28/22 02:38	SNL	EET PIT
Total/NA	Analysis	300.0 Instrument ID: CHIC2100A		25			416391	10/28/22 02:52	SNL	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417094	11/03/22 01:06	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417223	11/03/22 21:26	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417366	11/04/22 17:17	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 14:44	RSK	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	416610	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 15:43	RJR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	416426	10/27/22 10:45	LWM	EET PIT

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: DUP-01
Date Collected: 10/20/22 11:51
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-42
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		2.5			416391	10/28/22 03:07	SNL	EET PIT
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		25			416391	10/28/22 03:22	SNL	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417094	11/03/22 01:20	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417223	11/03/22 21:41	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417366	11/04/22 17:32	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 14:58	RSK	EET PIT
Dissolved	Prep	7470A			25 mL	25 mL	416610	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGY		1			417081	11/02/22 15:44	RJR	EET PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	416426	10/27/22 10:45	LWM	EET PIT

Client Sample ID: DUP-02
Date Collected: 10/20/22 12:15
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-43
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 Instrument ID: CHIC2100A		2.5			416391	10/28/22 03:37	SNL	EET PIT
Total/NA	Analysis	300.0 Instrument ID: CHIC2100A		25			416391	10/28/22 03:52	SNL	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417094	11/03/22 01:35	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417223	11/03/22 21:55	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417366	11/04/22 17:46	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			417508	11/05/22 15:13	RSK	EET PIT

Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: DUP-02
Date Collected: 10/20/22 12:15
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-43
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	7470A			25 mL	25 mL	416610	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			417081	11/02/22 15:45	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	15 mL	100 mL	416426	10/27/22 10:45	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-02
Date Collected: 10/20/22 12:06
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-44
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		2.5			416391	10/28/22 04:07	SNL	EET PIT
Instrument ID: CHIC2100A										
Dissolved	Analysis	EPA 300.0 R2.1		25			416391	10/28/22 04:51	SNL	EET PIT
Instrument ID: CHIC2100A										
Dissolved	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417094	11/03/22 01:46	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417223	11/03/22 22:10	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417366	11/04/22 18:01	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417508	11/05/22 15:34	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	416610	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			417081	11/02/22 15:46	RJR	EET PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	15 mL	100 mL	416426	10/27/22 10:45	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-03
Date Collected: 10/20/22 16:20
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-45
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		2.5			416393	10/27/22 22:38	SNL	EET PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	300.0		25			416393	10/27/22 23:22	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417094	11/03/22 02:00	RSK	EET PIT
Instrument ID: A										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: DUP-03
Date Collected: 10/20/22 16:20
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-45
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			25 mL	25 mL	416775	10/31/22 15:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417223	11/03/22 22:24	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417366	11/04/22 18:15	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	417140	11/03/22 10:25	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417508	11/05/22 15:45	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	416610	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			417081	11/02/22 15:47	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	416307	10/26/22 13:33	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-01
Date Collected: 10/20/22 07:15
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-46
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			416560	10/28/22 17:23	SNL	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		1			416393	10/28/22 00:07	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	416893	11/01/22 14:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417114	11/02/22 15:54	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	416610	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			417081	11/02/22 15:48	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	416307	10/26/22 13:33	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-01
Date Collected: 10/20/22 07:29
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-47
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			416560	10/28/22 18:07	SNL	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		1			416393	10/28/22 00:21	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	416893	11/01/22 14:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417114	11/02/22 15:58	RSK	EET PIT
Instrument ID: DORY										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: FB-01

Date Collected: 10/20/22 07:29

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-47

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	7470A			25 mL	25 mL	416610	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			417081	11/02/22 15:49	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	416307	10/26/22 13:33	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-02

Date Collected: 10/20/22 18:01

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-48

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			416560	10/28/22 18:22	SNL	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		1			416393	10/27/22 20:54	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	416893	11/01/22 14:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417114	11/02/22 16:01	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	416610	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			417081	11/02/22 15:53	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	416307	10/26/22 13:33	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-02

Date Collected: 10/20/22 18:10

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-49

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			416560	10/28/22 18:36	SNL	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		1			416393	10/28/22 00:36	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	416893	11/01/22 14:05	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			417114	11/02/22 16:04	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	416610	10/31/22 07:00	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			417081	11/02/22 15:54	RJR	EET PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	416307	10/26/22 13:33	LWM	EET PIT
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-146725-1

Client Sample ID: DUP-03
Date Collected: 10/20/22 16:09
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-50
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		2.5			416393	10/27/22 23:37	SNL	EET PIT
Instrument ID: CHICS2100B										
Dissolved	Analysis	EPA 300.0 R2.1		25			416393	10/27/22 23:52	SNL	EET PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			25 mL	25 mL	416893	11/01/22 14:05	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			417114	11/02/22 16:08	RSK	EET PIT
Instrument ID: DORY										
Dissolved	Prep	7470A			25 mL	25 mL	416610	10/31/22 07:00	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			417081	11/02/22 15:55	RJR	EET PIT
Instrument ID: HGY										
Dissolved	Analysis	SM 2540C		1	10 mL	100 mL	416307	10/26/22 13:33	LWM	EET PIT
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: EET PIT

Batch Type: Prep

HCY = Harrison Yaeger

RJR = Ron Rosenbaum

Batch Type: Analysis

LWM = Leslie McIntire

M1D = Maureen Donlin

RJR = Ron Rosenbaum

RSK = Robert Kurtz

SAB = Sharon Bacha

SNL = Sean Lordo

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-1-1'

Lab Sample ID: 180-146725-1

Date Collected: 10/20/22 17:09

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5500		25	18	mg/L			10/25/22 23:12	25
Fluoride	0.23	J F1	0.50	0.065	mg/L			10/25/22 22:17	2.5
Sulfate	730		2.5	1.9	mg/L			10/25/22 22:17	2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00084	J	0.0020	0.00051	mg/L		11/01/22 14:05	11/02/22 14:41	1
Arsenic	0.0014		0.0010	0.00028	mg/L		11/01/22 14:05	11/02/22 14:41	1
Barium	0.059		0.010	0.0031	mg/L		11/01/22 14:05	11/02/22 14:41	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		11/01/22 14:05	11/02/22 14:41	1
Boron	1.3		0.080	0.060	mg/L		11/01/22 14:05	11/03/22 14:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/01/22 14:05	11/02/22 14:41	1
Calcium	130		0.50	0.13	mg/L		11/01/22 14:05	11/02/22 14:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/01/22 14:05	11/02/22 14:41	1
Cobalt	0.00060	J	0.0025	0.00026	mg/L		11/01/22 14:05	11/02/22 14:41	1
Lead	0.00029	J	0.0010	0.00017	mg/L		11/01/22 14:05	11/02/22 14:41	1
Lithium	0.048		0.0050	0.00083	mg/L		11/01/22 14:05	11/02/22 14:41	1
Molybdenum	0.0031	J	0.015	0.00061	mg/L		11/01/22 14:05	11/02/22 14:41	1
Selenium	<0.00074		0.0050	0.00074	mg/L		11/01/22 14:05	11/02/22 14:41	1
Thallium	<0.00047		0.0010	0.00047	mg/L		11/01/22 14:05	11/02/22 14:41	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 14:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	9800		100	100	mg/L			10/26/22 08:57	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-1-1'

Lab Sample ID: 180-146725-2

Date Collected: 10/20/22 17:20

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	5400		25	18	mg/L			10/25/22 20:08	25
Fluoride, Dissolved	0.26		0.25	0.065	mg/L			10/25/22 19:49	2.5
Sulfate, Dissolved	730		2.5	1.9	mg/L			10/25/22 19:49	2.5

Method: SW846 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		11/01/22 14:05	11/02/22 14:54	1
Arsenic, Dissolved	0.00091	J	0.0010	0.00028	mg/L		11/01/22 14:05	11/02/22 14:54	1
Barium, Dissolved	0.059		0.010	0.0031	mg/L		11/01/22 14:05	11/02/22 14:54	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		11/01/22 14:05	11/02/22 14:54	1
Boron, Dissolved	1.6		0.080	0.060	mg/L		11/01/22 14:05	12/07/22 14:21	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		11/01/22 14:05	11/02/22 14:54	1
Calcium, Dissolved	130		0.50	0.13	mg/L		11/01/22 14:05	11/02/22 14:54	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		11/01/22 14:05	11/02/22 14:54	1
Cobalt, Dissolved	0.00048	J	0.0025	0.00026	mg/L		11/01/22 14:05	11/02/22 14:54	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		11/01/22 14:05	11/02/22 14:54	1
Lithium, Dissolved	0.048		0.0050	0.00083	mg/L		11/01/22 14:05	11/02/22 14:54	1
Molybdenum, Dissolved	0.0031	J	0.015	0.00061	mg/L		11/01/22 14:05	11/02/22 14:54	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		11/01/22 14:05	11/02/22 14:54	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		11/01/22 14:05	11/02/22 14:54	1

Method: SW846 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		10/31/22 07:00	11/02/22 14:37	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	9800		100	100	mg/L			10/27/22 10:45	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-1-7'

Lab Sample ID: 180-146725-3

Date Collected: 10/20/22 17:39

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5400		25	18	mg/L			10/25/22 20:44	25
Fluoride	0.25	J	0.50	0.065	mg/L			10/25/22 20:26	2.5
Sulfate	740		2.5	1.9	mg/L			10/25/22 20:26	2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00067	J	0.0020	0.00051	mg/L		11/01/22 14:05	11/02/22 15:14	1
Arsenic	0.0014		0.0010	0.00028	mg/L		11/01/22 14:05	11/02/22 15:14	1
Barium	0.068		0.010	0.0031	mg/L		11/01/22 14:05	11/02/22 15:14	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		11/01/22 14:05	11/02/22 15:14	1
Boron	1.3		0.080	0.060	mg/L		11/01/22 14:05	11/02/22 15:14	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/01/22 14:05	11/02/22 15:14	1
Calcium	130		0.50	0.13	mg/L		11/01/22 14:05	11/02/22 15:14	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/01/22 14:05	11/02/22 15:14	1
Cobalt	0.00043	J	0.0025	0.00026	mg/L		11/01/22 14:05	11/02/22 15:14	1
Lead	0.00017	J	0.0010	0.00017	mg/L		11/01/22 14:05	11/02/22 15:14	1
Lithium	0.048		0.0050	0.00083	mg/L		11/01/22 14:05	11/02/22 15:14	1
Molybdenum	0.0031	J	0.015	0.00061	mg/L		11/01/22 14:05	11/02/22 15:14	1
Selenium	<0.00074		0.0050	0.00074	mg/L		11/01/22 14:05	11/02/22 15:14	1
Thallium	<0.00047		0.0010	0.00047	mg/L		11/01/22 14:05	11/02/22 15:14	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 14:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	10000		100	100	mg/L			10/27/22 10:45	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-1-7'

Lab Sample ID: 180-146725-4

Date Collected: 10/20/22 17:47

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	5300		25	18	mg/L			10/25/22 21:22	25
Fluoride, Dissolved	0.23	J	0.25	0.065	mg/L			10/25/22 21:03	2.5
Sulfate, Dissolved	720		2.5	1.9	mg/L			10/25/22 21:03	2.5

Method: SW846 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		11/01/22 14:05	11/02/22 15:28	1
Arsenic, Dissolved	0.0012		0.0010	0.00028	mg/L		11/01/22 14:05	11/02/22 15:28	1
Barium, Dissolved	0.066		0.010	0.0031	mg/L		11/01/22 14:05	11/02/22 15:28	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		11/01/22 14:05	11/02/22 15:28	1
Boron, Dissolved	1.3		0.080	0.060	mg/L		11/01/22 14:05	11/02/22 15:28	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		11/01/22 14:05	11/02/22 15:28	1
Calcium, Dissolved	130		0.50	0.13	mg/L		11/01/22 14:05	11/02/22 15:28	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		11/01/22 14:05	11/02/22 15:28	1
Cobalt, Dissolved	0.00035	J	0.0025	0.00026	mg/L		11/01/22 14:05	11/02/22 15:28	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		11/01/22 14:05	11/02/22 15:28	1
Lithium, Dissolved	0.047		0.0050	0.00083	mg/L		11/01/22 14:05	11/02/22 15:28	1
Molybdenum, Dissolved	0.0031	J	0.015	0.00061	mg/L		11/01/22 14:05	11/02/22 15:28	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		11/01/22 14:05	11/02/22 15:28	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		11/01/22 14:05	11/02/22 15:28	1

Method: SW846 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		10/31/22 07:00	11/02/22 14:39	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	10000		100	100	mg/L			10/26/22 14:40	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-2-1'

Lab Sample ID: 180-146725-5

Date Collected: 10/20/22 16:11

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5300		25	18	mg/L			10/26/22 00:26	25
Fluoride	0.24	J	0.50	0.065	mg/L			10/26/22 00:08	2.5
Sulfate	740		2.5	1.9	mg/L			10/26/22 00:08	2.5

Method: SW846 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		11/01/22 14:05	11/02/22 15:41	1
Arsenic	0.0015		0.0010	0.00028	mg/L		11/01/22 14:05	11/02/22 15:41	1
Barium	0.061		0.010	0.0031	mg/L		11/01/22 14:05	11/02/22 15:41	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		11/01/22 14:05	11/02/22 15:41	1
Boron	1.3		0.080	0.060	mg/L		11/01/22 14:05	11/02/22 15:41	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/01/22 14:05	11/02/22 15:41	1
Calcium	130		0.50	0.13	mg/L		11/01/22 14:05	11/02/22 15:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/01/22 14:05	11/02/22 15:41	1
Cobalt	0.00048	J	0.0025	0.00026	mg/L		11/01/22 14:05	11/02/22 15:41	1
Lead	<0.00017		0.0010	0.00017	mg/L		11/01/22 14:05	11/02/22 15:41	1
Lithium	0.048		0.0050	0.00083	mg/L		11/01/22 14:05	11/02/22 15:41	1
Molybdenum	0.0032	J	0.015	0.00061	mg/L		11/01/22 14:05	11/02/22 15:41	1
Selenium	<0.00074		0.0050	0.00074	mg/L		11/01/22 14:05	11/02/22 15:41	1
Thallium	<0.00047		0.0010	0.00047	mg/L		11/01/22 14:05	11/02/22 15:41	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 14:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	11000		100	100	mg/L			10/26/22 14:40	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-2-1'

Lab Sample ID: 180-146725-6

Date Collected: 10/20/22 16:20

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	6000		25	18	mg/L			10/26/22 01:03	25
Fluoride, Dissolved	0.24	J	0.25	0.065	mg/L			10/26/22 00:45	2.5
Sulfate, Dissolved	810		2.5	1.9	mg/L			10/26/22 00:45	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00064	J	0.0020	0.00051	mg/L		11/02/22 10:45	11/04/22 20:00	1
Arsenic, Dissolved	0.0011		0.0010	0.00028	mg/L		10/31/22 15:20	11/01/22 18:25	1
Barium, Dissolved	0.055		0.010	0.0031	mg/L		10/31/22 15:20	11/01/22 18:25	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/01/22 18:25	1
Boron, Dissolved	1.5		0.080	0.060	mg/L		11/02/22 10:45	11/05/22 16:07	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/01/22 18:25	1
Calcium, Dissolved	140		0.50	0.13	mg/L		11/02/22 10:45	11/04/22 20:00	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/01/22 18:25	1
Cobalt, Dissolved	0.00048	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/01/22 18:25	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/01/22 18:25	1
Lithium, Dissolved	0.043		0.0050	0.00083	mg/L		10/31/22 15:20	11/01/22 18:25	1
Molybdenum, Dissolved	0.0035	J	0.015	0.00061	mg/L		10/31/22 15:20	11/01/22 18:25	1
Selenium, Dissolved	0.00076	J	0.0050	0.00074	mg/L		10/31/22 15:20	11/01/22 18:25	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/01/22 18:25	1

Method: SW846 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		10/31/22 07:00	11/02/22 14:44	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	10000		100	100	mg/L			10/26/22 14:40	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-2-7'

Lab Sample ID: 180-146725-7

Date Collected: 10/20/22 16:49

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5800		25	18	mg/L			10/26/22 02:17	25
Fluoride	0.30	J	0.50	0.065	mg/L			10/26/22 01:58	2.5
Sulfate	820		2.5	1.9	mg/L			10/26/22 01:58	2.5

Method: SW846 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		11/02/22 10:45	11/04/22 20:14	1
Arsenic	0.0015		0.0010	0.00028	mg/L		10/31/22 15:20	11/01/22 18:36	1
Barium	0.062		0.010	0.0031	mg/L		10/31/22 15:20	11/01/22 18:36	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/01/22 18:36	1
Boron	1.6		0.080	0.060	mg/L		11/02/22 10:45	11/05/22 16:21	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/01/22 18:36	1
Calcium	150		0.50	0.13	mg/L		11/02/22 10:45	11/04/22 20:14	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/01/22 18:36	1
Cobalt	0.00040	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/01/22 18:36	1
Lead	0.00023	J	0.0010	0.00017	mg/L		10/31/22 15:20	11/01/22 18:36	1
Lithium	0.045		0.0050	0.00083	mg/L		10/31/22 15:20	11/01/22 18:36	1
Molybdenum	0.0032	J	0.015	0.00061	mg/L		10/31/22 15:20	11/01/22 18:36	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/01/22 18:36	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/01/22 18:36	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 14:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	10000		100	100	mg/L			10/26/22 14:40	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-2-7'

Lab Sample ID: 180-146725-8

Date Collected: 10/20/22 16:59

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	5900		25	18	mg/L			10/26/22 02:54	25
Fluoride, Dissolved	0.24	J	0.25	0.065	mg/L			10/26/22 02:35	2.5
Sulfate, Dissolved	830		2.5	1.9	mg/L			10/26/22 02:35	2.5

Method: SW846 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		11/02/22 10:45	11/04/22 20:29	1
Arsenic, Dissolved	0.0012		0.0010	0.00028	mg/L		10/31/22 15:20	11/01/22 18:50	1
Barium, Dissolved	0.061		0.010	0.0031	mg/L		10/31/22 15:20	11/01/22 18:50	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/01/22 18:50	1
Boron, Dissolved	1.5		0.080	0.060	mg/L		11/02/22 10:45	11/05/22 16:36	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/01/22 18:50	1
Calcium, Dissolved	150		0.50	0.13	mg/L		11/02/22 10:45	11/04/22 20:29	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/01/22 18:50	1
Cobalt, Dissolved	0.00029	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/01/22 18:50	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/01/22 18:50	1
Lithium, Dissolved	0.044		0.0050	0.00083	mg/L		10/31/22 15:20	11/01/22 18:50	1
Molybdenum, Dissolved	0.0032	J	0.015	0.00061	mg/L		10/31/22 15:20	11/01/22 18:50	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/01/22 18:50	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/01/22 18:50	1

Method: SW846 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		10/31/22 07:00	11/02/22 14:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	9900		100	100	mg/L			10/26/22 14:40	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-3-1'

Lab Sample ID: 180-146725-9

Date Collected: 10/20/22 08:45

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6000		25	18	mg/L			10/26/22 03:31	25
Fluoride	0.24	J	0.50	0.065	mg/L			10/26/22 03:12	2.5
Sulfate	820		2.5	1.9	mg/L			10/26/22 03:12	2.5

Method: SW846 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		11/02/22 10:45	11/04/22 20:43	1
Arsenic	0.0014		0.0010	0.00028	mg/L		10/31/22 15:20	11/01/22 19:05	1
Barium	0.059		0.010	0.0031	mg/L		10/31/22 15:20	11/01/22 19:05	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/01/22 19:05	1
Boron	1.5		0.080	0.060	mg/L		11/02/22 10:45	11/05/22 16:50	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/01/22 19:05	1
Calcium	140		0.50	0.13	mg/L		11/02/22 10:45	11/04/22 20:43	1
Chromium	0.024		0.0020	0.0015	mg/L		10/31/22 15:20	11/01/22 19:05	1
Cobalt	0.00093	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/01/22 19:05	1
Lead	0.00047	J	0.0010	0.00017	mg/L		10/31/22 15:20	11/01/22 19:05	1
Lithium	0.044		0.0050	0.00083	mg/L		10/31/22 15:20	11/01/22 19:05	1
Molybdenum	0.0033	J	0.015	0.00061	mg/L		10/31/22 15:20	11/01/22 19:05	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/01/22 19:05	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/01/22 19:05	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 14:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	9800		100	100	mg/L			10/26/22 14:40	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-3-1'

Lab Sample ID: 180-146725-10

Date Collected: 10/20/22 08:53

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	5500		25	18	mg/L			10/26/22 20:49	25
Fluoride, Dissolved	0.34	F1	0.25	0.065	mg/L			10/26/22 19:54	2.5
Sulfate, Dissolved	740		2.5	1.9	mg/L			10/26/22 19:54	2.5

Method: SW846 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		11/02/22 10:45	11/04/22 20:58	1
Arsenic, Dissolved	0.0012		0.0010	0.00028	mg/L		10/31/22 15:20	11/01/22 19:19	1
Barium, Dissolved	0.060		0.010	0.0031	mg/L		10/31/22 15:20	11/01/22 19:19	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/01/22 19:19	1
Boron, Dissolved	1.4		0.080	0.060	mg/L		11/02/22 10:45	11/05/22 17:05	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/01/22 19:19	1
Calcium, Dissolved	130		0.50	0.13	mg/L		11/02/22 10:45	11/04/22 20:58	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/01/22 19:19	1
Cobalt, Dissolved	0.00039	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/01/22 19:19	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/01/22 19:19	1
Lithium, Dissolved	0.045		0.0050	0.00083	mg/L		10/31/22 15:20	11/01/22 19:19	1
Molybdenum, Dissolved	0.0032	J	0.015	0.00061	mg/L		10/31/22 15:20	11/01/22 19:19	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/01/22 19:19	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/01/22 19:19	1

Method: SW846 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		10/31/22 07:00	11/02/22 14:48	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	9900		100	100	mg/L			10/26/22 14:40	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-3-4'

Lab Sample ID: 180-146725-11

Date Collected: 10/20/22 09:13

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5700		25	18	mg/L			10/26/22 22:58	25
Fluoride	0.22	J	0.50	0.065	mg/L			10/26/22 22:40	2.5
Sulfate	750		2.5	1.9	mg/L			10/26/22 22:40	2.5

Method: SW846 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		11/02/22 10:45	11/04/22 21:12	1
Arsenic	0.0013		0.0010	0.00028	mg/L		10/31/22 15:20	11/01/22 19:34	1
Barium	0.059		0.010	0.0031	mg/L		10/31/22 15:20	11/01/22 19:34	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/01/22 19:34	1
Boron	1.5		0.080	0.060	mg/L		11/02/22 10:45	11/05/22 17:26	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/01/22 19:34	1
Calcium	140		0.50	0.13	mg/L		11/02/22 10:45	11/04/22 21:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/01/22 19:34	1
Cobalt	0.00044	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/01/22 19:34	1
Lead	0.00017	J	0.0010	0.00017	mg/L		10/31/22 15:20	11/01/22 19:34	1
Lithium	0.044		0.0050	0.00083	mg/L		10/31/22 15:20	11/01/22 19:34	1
Molybdenum	0.0030	J	0.015	0.00061	mg/L		10/31/22 15:20	11/01/22 19:34	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/01/22 19:34	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/01/22 19:34	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 14:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	10000		100	100	mg/L			10/26/22 14:40	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-3-4'

Lab Sample ID: 180-146725-12

Date Collected: 10/20/22 09:20

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	5600		25	18	mg/L			10/26/22 23:35	25
Fluoride, Dissolved	0.22	J	0.25	0.065	mg/L			10/26/22 23:16	2.5
Sulfate, Dissolved	750		2.5	1.9	mg/L			10/26/22 23:16	2.5

Method: SW846 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		11/02/22 10:45	11/04/22 21:27	1
Arsenic, Dissolved	0.0014		0.0010	0.00028	mg/L		10/31/22 15:20	11/01/22 19:48	1
Barium, Dissolved	0.058		0.010	0.0031	mg/L		10/31/22 15:20	11/01/22 19:48	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/01/22 19:48	1
Boron, Dissolved	1.4		0.080	0.060	mg/L		11/02/22 10:45	11/05/22 17:41	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/01/22 19:48	1
Calcium, Dissolved	130		0.50	0.13	mg/L		11/02/22 10:45	11/04/22 21:27	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/01/22 19:48	1
Cobalt, Dissolved	0.00036	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/01/22 19:48	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/01/22 19:48	1
Lithium, Dissolved	0.044		0.0050	0.00083	mg/L		10/31/22 15:20	11/01/22 19:48	1
Molybdenum, Dissolved	0.0030	J	0.015	0.00061	mg/L		10/31/22 15:20	11/01/22 19:48	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/01/22 19:48	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/01/22 19:48	1

Method: SW846 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		10/31/22 07:00	11/02/22 14:51	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	7200		100	100	mg/L			10/26/22 14:40	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-4-1.5'

Lab Sample ID: 180-146725-13

Date Collected: 10/20/22 10:41

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4500		25	18	mg/L			10/27/22 00:12	25
Fluoride	0.24	J	0.50	0.065	mg/L			10/26/22 23:53	2.5
Sulfate	610		2.5	1.9	mg/L			10/26/22 23:53	2.5

Method: SW846 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		11/02/22 10:45	11/04/22 21:41	1
Arsenic	0.00095	J	0.0010	0.00028	mg/L		10/31/22 15:20	11/01/22 20:10	1
Barium	0.059		0.010	0.0031	mg/L		10/31/22 15:20	11/01/22 20:10	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/01/22 20:10	1
Boron	1.2		0.080	0.060	mg/L		11/02/22 10:45	11/05/22 17:55	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/01/22 20:10	1
Calcium	120		0.50	0.13	mg/L		11/02/22 10:45	11/04/22 21:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/01/22 20:10	1
Cobalt	0.00031	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/01/22 20:10	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/01/22 20:10	1
Lithium	0.035		0.0050	0.00083	mg/L		10/31/22 15:20	11/01/22 20:10	1
Molybdenum	0.0022	J	0.015	0.00061	mg/L		10/31/22 15:20	11/01/22 20:10	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/01/22 20:10	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/01/22 20:10	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 14:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	8900		100	100	mg/L			10/26/22 14:40	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-4-1.5'

Lab Sample ID: 180-146725-14

Date Collected: 10/20/22 10:49

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	4500		10	7.1	mg/L			10/26/22 09:40	10
Fluoride, Dissolved	0.16		0.10	0.026	mg/L			10/26/22 09:21	1
Sulfate, Dissolved	590		1.0	0.76	mg/L			10/26/22 09:21	1

Method: SW846 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		11/02/22 10:45	11/04/22 22:03	1
Arsenic, Dissolved	0.0010		0.0010	0.00028	mg/L		10/31/22 15:20	11/01/22 20:21	1
Barium, Dissolved	0.063		0.010	0.0031	mg/L		10/31/22 15:20	11/01/22 20:21	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/01/22 20:21	1
Boron, Dissolved	1.2		0.080	0.060	mg/L		11/02/22 10:45	11/05/22 18:10	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/01/22 20:21	1
Calcium, Dissolved	110		0.50	0.13	mg/L		11/02/22 10:45	11/04/22 22:03	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/01/22 20:21	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		10/31/22 15:20	11/01/22 20:21	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/01/22 20:21	1
Lithium, Dissolved	0.037		0.0050	0.00083	mg/L		10/31/22 15:20	11/01/22 20:21	1
Molybdenum, Dissolved	0.0023 J		0.015	0.00061	mg/L		10/31/22 15:20	11/01/22 20:21	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/01/22 20:21	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/01/22 20:21	1

Method: SW846 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		10/31/22 07:00	11/02/22 14:53	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	7800		100	100	mg/L			10/27/22 10:45	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-5-1'

Lab Sample ID: 180-146725-15

Date Collected: 10/20/22 12:12

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2900		10	7.1	mg/L			10/26/22 10:17	10
Fluoride	0.14	J	0.20	0.026	mg/L			10/26/22 09:58	1
Sulfate	390		1.0	0.76	mg/L			10/26/22 09:58	1

Method: SW846 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		11/02/22 10:45	11/04/22 23:04	1
Arsenic	0.0013		0.0010	0.00028	mg/L		10/31/22 15:20	11/01/22 21:08	1
Barium	0.061		0.010	0.0031	mg/L		10/31/22 15:20	11/01/22 21:08	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/01/22 21:08	1
Boron	0.79		0.080	0.060	mg/L		11/02/22 10:45	11/05/22 19:11	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/01/22 21:08	1
Calcium	72		0.50	0.13	mg/L		11/02/22 10:45	11/04/22 23:04	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/01/22 21:08	1
Cobalt	0.00074	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/01/22 21:08	1
Lead	0.00019	J	0.0010	0.00017	mg/L		10/31/22 15:20	11/01/22 21:08	1
Lithium	0.026		0.0050	0.00083	mg/L		10/31/22 15:20	11/01/22 21:08	1
Molybdenum	0.0017	J	0.015	0.00061	mg/L		10/31/22 15:20	11/01/22 21:08	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/01/22 21:08	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/01/22 21:08	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 14:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	5600		67	67	mg/L			10/27/22 10:45	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-5-1'

Lab Sample ID: 180-146725-16

Date Collected: 10/20/22 12:17

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	3000		10	7.1	mg/L			10/26/22 10:54	10
Fluoride, Dissolved	0.11		0.10	0.026	mg/L			10/26/22 10:35	1
Sulfate, Dissolved	390		1.0	0.76	mg/L			10/26/22 10:35	1

Method: SW846 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		11/02/22 10:45	11/04/22 23:19	1
Arsenic, Dissolved	0.0010		0.0010	0.00028	mg/L		10/31/22 15:20	11/01/22 21:18	1
Barium, Dissolved	0.055		0.010	0.0031	mg/L		10/31/22 15:20	11/01/22 21:18	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/01/22 21:18	1
Boron, Dissolved	0.74		0.080	0.060	mg/L		11/02/22 10:45	11/05/22 19:33	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/01/22 21:18	1
Calcium, Dissolved	71		0.50	0.13	mg/L		11/02/22 10:45	11/04/22 23:19	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/01/22 21:18	1
Cobalt, Dissolved	0.00064	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/01/22 21:18	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/01/22 21:18	1
Lithium, Dissolved	0.025		0.0050	0.00083	mg/L		10/31/22 15:20	11/01/22 21:18	1
Molybdenum, Dissolved	0.0016	J	0.015	0.00061	mg/L		10/31/22 15:20	11/01/22 21:18	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/01/22 21:18	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/01/22 21:18	1

Method: SW846 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		10/31/22 07:00	11/02/22 14:58	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	5600		67	67	mg/L			10/26/22 14:40	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-5-13'

Lab Sample ID: 180-146725-17

Date Collected: 10/20/22 11:56

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6600		25	18	mg/L			10/26/22 11:31	25
Fluoride	0.24	J	0.50	0.065	mg/L			10/26/22 11:12	2.5
Sulfate	880		2.5	1.9	mg/L			10/26/22 11:12	2.5

Method: SW846 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		11/02/22 10:45	11/04/22 23:33	1
Arsenic	0.0015		0.0010	0.00028	mg/L		10/31/22 15:20	11/01/22 21:29	1
Barium	0.049		0.010	0.0031	mg/L		10/31/22 15:20	11/01/22 21:29	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/01/22 21:29	1
Boron	1.8		0.080	0.060	mg/L		11/02/22 10:45	11/05/22 19:47	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/01/22 21:29	1
Calcium	170		0.50	0.13	mg/L		11/02/22 10:45	11/04/22 23:33	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/01/22 21:29	1
Cobalt	0.00040	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/01/22 21:29	1
Lead	0.00027	J	0.0010	0.00017	mg/L		10/31/22 15:20	11/01/22 21:29	1
Lithium	0.053		0.0050	0.00083	mg/L		10/31/22 15:20	11/01/22 21:29	1
Molybdenum	0.0035	J	0.015	0.00061	mg/L		10/31/22 15:20	11/01/22 21:29	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/01/22 21:29	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/01/22 21:29	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	11000		200	200	mg/L			10/26/22 14:40	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-5-13'

Lab Sample ID: 180-146725-18

Date Collected: 10/20/22 12:01

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	6600		25	18	mg/L			10/26/22 12:08	25
Fluoride, Dissolved	0.23	J	0.25	0.065	mg/L			10/26/22 11:49	2.5
Sulfate, Dissolved	880		2.5	1.9	mg/L			10/26/22 11:49	2.5

Method: SW846 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		11/02/22 10:45	11/04/22 23:47	1
Arsenic, Dissolved	0.0015		0.0010	0.00028	mg/L		10/31/22 15:20	11/01/22 21:51	1
Barium, Dissolved	0.049		0.010	0.0031	mg/L		10/31/22 15:20	11/01/22 21:51	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/01/22 21:51	1
Boron, Dissolved	1.8		0.080	0.060	mg/L		11/02/22 10:45	11/05/22 20:02	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/01/22 21:51	1
Calcium, Dissolved	170		0.50	0.13	mg/L		11/02/22 10:45	11/04/22 23:47	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/01/22 21:51	1
Cobalt, Dissolved	0.00037	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/01/22 21:51	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/01/22 21:51	1
Lithium, Dissolved	0.052		0.0050	0.00083	mg/L		10/31/22 15:20	11/01/22 21:51	1
Molybdenum, Dissolved	0.0037	J	0.015	0.00061	mg/L		10/31/22 15:20	11/01/22 21:51	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/01/22 21:51	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/01/22 21:51	1

Method: SW846 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		10/31/22 07:00	11/02/22 15:00	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	11000		200	200	mg/L			10/26/22 14:40	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-6-1'

Lab Sample ID: 180-146725-19

Date Collected: 10/20/22 11:28

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5200		25	18	mg/L			10/27/22 18:38	25
Fluoride	<0.065	*+	0.50	0.065	mg/L			10/27/22 18:24	2.5
Sulfate	670		2.5	1.9	mg/L			10/27/22 18:24	2.5

Method: SW846 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		11/02/22 10:45	11/05/22 00:02	1
Arsenic	0.0012		0.0010	0.00028	mg/L		10/31/22 15:20	11/01/22 22:05	1
Barium	0.060		0.010	0.0031	mg/L		10/31/22 15:20	11/01/22 22:05	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/01/22 22:05	1
Boron	1.5		0.080	0.060	mg/L		11/02/22 10:45	11/05/22 20:16	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/01/22 22:05	1
Calcium	140		0.50	0.13	mg/L		11/02/22 10:45	11/05/22 00:02	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/01/22 22:05	1
Cobalt	0.00044	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/01/22 22:05	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/01/22 22:05	1
Lithium	0.040		0.0050	0.00083	mg/L		10/31/22 15:20	11/01/22 22:05	1
Molybdenum	0.0026	J	0.015	0.00061	mg/L		10/31/22 15:20	11/01/22 22:05	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/01/22 22:05	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/01/22 22:05	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	8100		100	100	mg/L			10/26/22 13:33	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-6-1'

Lab Sample ID: 180-146725-20

Date Collected: 10/20/22 11:33

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	4900		10	7.1	mg/L			10/29/22 03:02	10
Fluoride, Dissolved	0.18		0.10	0.026	mg/L			10/29/22 02:43	1
Sulfate, Dissolved	650		1.0	0.76	mg/L			10/29/22 02:43	1

Method: SW846 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		11/02/22 10:45	11/05/22 00:16	1
Arsenic, Dissolved	0.0013		0.0010	0.00028	mg/L		10/31/22 15:20	11/01/22 22:16	1
Barium, Dissolved	0.057		0.010	0.0031	mg/L		10/31/22 15:20	11/01/22 22:16	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/01/22 22:16	1
Boron, Dissolved	1.5		0.080	0.060	mg/L		11/02/22 10:45	11/05/22 20:31	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/01/22 22:16	1
Calcium, Dissolved	140		0.50	0.13	mg/L		11/02/22 10:45	11/05/22 00:16	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/01/22 22:16	1
Cobalt, Dissolved	0.00030	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/01/22 22:16	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/01/22 22:16	1
Lithium, Dissolved	0.038		0.0050	0.00083	mg/L		10/31/22 15:20	11/01/22 22:16	1
Molybdenum, Dissolved	0.0025	J	0.015	0.00061	mg/L		10/31/22 15:20	11/01/22 22:16	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/01/22 22:16	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/01/22 22:16	1

Method: SW846 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		10/31/22 07:00	11/02/22 15:04	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	8300		100	100	mg/L			10/27/22 10:45	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-6-9'.5'

Lab Sample ID: 180-146725-21

Date Collected: 10/20/22 11:03

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5800		25	18	mg/L			10/27/22 00:49	25
Fluoride	0.20	J	0.50	0.065	mg/L			10/27/22 00:30	2.5
Sulfate	770		2.5	1.9	mg/L			10/27/22 00:30	2.5

Method: SW846 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		11/02/22 10:45	11/05/22 00:31	1
Arsenic	0.0014		0.0010	0.00028	mg/L		10/31/22 15:20	11/01/22 22:27	1
Barium	0.055		0.010	0.0031	mg/L		10/31/22 15:20	11/01/22 22:27	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/01/22 22:27	1
Boron	1.5		0.080	0.060	mg/L		11/02/22 10:45	11/05/22 20:45	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/01/22 22:27	1
Calcium	140		0.50	0.13	mg/L		11/02/22 10:45	11/05/22 00:31	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/01/22 22:27	1
Cobalt	0.00045	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/01/22 22:27	1
Lead	0.00018	J	0.0010	0.00017	mg/L		10/31/22 15:20	11/01/22 22:27	1
Lithium	0.045		0.0050	0.00083	mg/L		10/31/22 15:20	11/01/22 22:27	1
Molybdenum	0.0029	J	0.015	0.00061	mg/L		10/31/22 15:20	11/01/22 22:27	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/01/22 22:27	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/01/22 22:27	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	9900		100	100	mg/L			10/26/22 14:40	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-6-9'.5'

Lab Sample ID: 180-146725-22

Date Collected: 10/20/22 11:08

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	5700		25	18	mg/L			10/27/22 02:02	25
Fluoride, Dissolved	0.21	J	0.25	0.065	mg/L			10/27/22 01:07	2.5
Sulfate, Dissolved	760		2.5	1.9	mg/L			10/27/22 01:07	2.5

Method: SW846 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		11/02/22 10:45	11/05/22 00:53	1
Arsenic, Dissolved	0.0015		0.0010	0.00028	mg/L		10/31/22 15:20	11/01/22 22:41	1
Barium, Dissolved	0.057		0.010	0.0031	mg/L		10/31/22 15:20	11/01/22 22:41	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/01/22 22:41	1
Boron, Dissolved	1.4		0.080	0.060	mg/L		11/02/22 10:45	11/05/22 20:59	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/01/22 22:41	1
Calcium, Dissolved	140		0.50	0.13	mg/L		11/02/22 10:45	11/05/22 00:53	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/01/22 22:41	1
Cobalt, Dissolved	0.00030	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/01/22 22:41	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/01/22 22:41	1
Lithium, Dissolved	0.046		0.0050	0.00083	mg/L		10/31/22 15:20	11/01/22 22:41	1
Molybdenum, Dissolved	0.0031	J	0.015	0.00061	mg/L		10/31/22 15:20	11/01/22 22:41	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/01/22 22:41	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/01/22 22:41	1

Method: SW846 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		10/31/22 07:00	11/02/22 15:12	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	9600		100	100	mg/L			10/26/22 14:40	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-9-1'

Lab Sample ID: 180-146725-23

Date Collected: 10/20/22 10:38

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3900		10	7.1	mg/L			10/29/22 03:39	10
Fluoride	0.12	J	0.20	0.026	mg/L			10/29/22 03:20	1
Sulfate	510		1.0	0.76	mg/L			10/29/22 03:20	1

Method: SW846 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		11/02/22 10:45	11/05/22 01:07	1
Arsenic	0.0014		0.0010	0.00028	mg/L		10/31/22 15:20	11/01/22 22:56	1
Barium	0.059		0.010	0.0031	mg/L		10/31/22 15:20	11/01/22 22:56	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/01/22 22:56	1
Boron	0.98		0.080	0.060	mg/L		11/02/22 10:45	11/05/22 21:14	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/01/22 22:56	1
Calcium	94		0.50	0.13	mg/L		11/02/22 10:45	11/05/22 01:07	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/01/22 22:56	1
Cobalt	0.00058	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/01/22 22:56	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/01/22 22:56	1
Lithium	0.032		0.0050	0.00083	mg/L		10/31/22 15:20	11/01/22 22:56	1
Molybdenum	0.0019	J	0.015	0.00061	mg/L		10/31/22 15:20	11/01/22 22:56	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/01/22 22:56	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/01/22 22:56	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 15:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	6800		100	100	mg/L			10/27/22 10:45	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-9-1'

Lab Sample ID: 180-146725-24

Date Collected: 10/20/22 10:53

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	3800		25	18	mg/L			10/30/22 00:04	25
Fluoride, Dissolved	0.17	J	0.25	0.065	mg/L			11/02/22 00:29	2.5
Sulfate, Dissolved	520		2.5	1.9	mg/L			10/29/22 23:46	2.5

Method: SW846 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		11/02/22 10:45	11/05/22 01:22	1
Arsenic, Dissolved	0.0011		0.0010	0.00028	mg/L		10/31/22 15:20	11/01/22 23:10	1
Barium, Dissolved	0.061		0.010	0.0031	mg/L		10/31/22 15:20	11/01/22 23:10	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/01/22 23:10	1
Boron, Dissolved	0.98		0.080	0.060	mg/L		11/02/22 10:45	11/05/22 21:28	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/01/22 23:10	1
Calcium, Dissolved	94		0.50	0.13	mg/L		11/02/22 10:45	11/05/22 01:22	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/01/22 23:10	1
Cobalt, Dissolved	0.00048	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/01/22 23:10	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/01/22 23:10	1
Lithium, Dissolved	0.033		0.0050	0.00083	mg/L		10/31/22 15:20	11/01/22 23:10	1
Molybdenum, Dissolved	0.0022	J	0.015	0.00061	mg/L		10/31/22 15:20	11/01/22 23:10	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/01/22 23:10	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/01/22 23:10	1

Method: SW846 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		10/31/22 07:00	11/02/22 15:14	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	6800		100	100	mg/L			10/27/22 10:45	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-9-4'

Lab Sample ID: 180-146725-25

Date Collected: 10/20/22 10:20

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5200		25	18	mg/L			10/26/22 22:44	25
Fluoride	<0.065		0.50	0.065	mg/L			10/26/22 22:29	2.5
Sulfate	700		2.5	1.9	mg/L			10/26/22 22:29	2.5

Method: SW846 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		11/02/22 10:45	11/05/22 01:36	1
Arsenic	0.0015		0.0010	0.00028	mg/L		10/31/22 15:20	11/01/22 23:25	1
Barium	0.058		0.010	0.0031	mg/L		10/31/22 15:20	11/01/22 23:25	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/01/22 23:25	1
Boron	1.3		0.080	0.060	mg/L		11/02/22 10:45	11/10/22 10:36	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/01/22 23:25	1
Calcium	130		0.50	0.13	mg/L		11/02/22 10:45	11/05/22 01:36	1
Chromium	0.012		0.0020	0.0015	mg/L		10/31/22 15:20	11/01/22 23:25	1
Cobalt	0.00068	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/01/22 23:25	1
Lead	0.00018	J	0.0010	0.00017	mg/L		10/31/22 15:20	11/01/22 23:25	1
Lithium	0.042		0.0050	0.00083	mg/L		10/31/22 15:20	11/01/22 23:25	1
Molybdenum	0.0029	J	0.015	0.00061	mg/L		10/31/22 15:20	11/01/22 23:25	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/01/22 23:25	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/01/22 23:25	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 15:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	8900		100	100	mg/L			10/26/22 08:57	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-9-4'

Lab Sample ID: 180-146725-26

Date Collected: 10/20/22 10:25

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	5600		25	18	mg/L			10/26/22 23:14	25
Fluoride, Dissolved	<0.065		0.25	0.065	mg/L			10/26/22 22:59	2.5
Sulfate, Dissolved	710		2.5	1.9	mg/L			10/26/22 22:59	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00087	J B	0.0020	0.00051	mg/L		11/03/22 10:25	11/04/22 13:00	1
Arsenic, Dissolved	0.0011		0.0010	0.00028	mg/L		10/31/22 15:20	11/02/22 21:14	1
Barium, Dissolved	0.066		0.010	0.0031	mg/L		10/31/22 15:20	11/02/22 21:14	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/02/22 21:14	1
Boron, Dissolved	1.2		0.080	0.060	mg/L		11/03/22 10:25	11/04/22 13:00	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/02/22 21:14	1
Calcium, Dissolved	130		0.50	0.13	mg/L		10/31/22 15:20	11/02/22 21:14	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/02/22 21:14	1
Cobalt, Dissolved	0.00039	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/02/22 21:14	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/02/22 21:14	1
Lithium, Dissolved	0.042		0.0050	0.00083	mg/L		10/31/22 15:20	11/02/22 21:14	1
Molybdenum, Dissolved	0.0034	J	0.015	0.00061	mg/L		10/31/22 15:20	11/02/22 21:14	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/02/22 21:14	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/02/22 21:14	1

Method: SW846 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		10/31/22 07:00	11/02/22 15:16	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	9500		100	100	mg/L			10/26/22 08:57	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-10-2'

Lab Sample ID: 180-146725-27

Date Collected: 10/20/22 09:46

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4100		25	18	mg/L			10/26/22 23:43	25
Fluoride	<0.065		0.50	0.065	mg/L			10/26/22 23:28	2.5
Sulfate	520		2.5	1.9	mg/L			10/26/22 23:28	2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00077	J B	0.0020	0.00051	mg/L		11/03/22 10:25	11/04/22 13:22	1
Arsenic	0.00086	J	0.0010	0.00028	mg/L		10/31/22 15:20	11/02/22 21:29	1
Barium	0.068		0.010	0.0031	mg/L		10/31/22 15:20	11/02/22 21:29	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/02/22 21:29	1
Boron	0.89		0.080	0.060	mg/L		11/03/22 10:25	11/04/22 13:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/02/22 21:29	1
Calcium	98		0.50	0.13	mg/L		10/31/22 15:20	11/02/22 21:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/02/22 21:29	1
Cobalt	0.00055	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/02/22 21:29	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/02/22 21:29	1
Lithium	0.031		0.0050	0.00083	mg/L		10/31/22 15:20	11/02/22 21:29	1
Molybdenum	0.0019	J	0.015	0.00061	mg/L		10/31/22 15:20	11/02/22 21:29	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/02/22 21:29	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/02/22 21:29	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 15:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	6800		100	100	mg/L			10/25/22 17:43	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-10-2'

Lab Sample ID: 180-146725-28

Date Collected: 10/20/22 09:51

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	4000		25	18	mg/L			10/27/22 00:13	25
Fluoride, Dissolved	<0.065		0.25	0.065	mg/L			10/26/22 23:58	2.5
Sulfate, Dissolved	530		2.5	1.9	mg/L			10/26/22 23:58	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00061	J B	0.0020	0.00051	mg/L		11/03/22 10:25	11/04/22 13:33	1
Arsenic, Dissolved	0.00075	J	0.0010	0.00028	mg/L		10/31/22 15:20	11/02/22 21:43	1
Barium, Dissolved	0.066		0.010	0.0031	mg/L		10/31/22 15:20	11/02/22 21:43	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/02/22 21:43	1
Boron, Dissolved	0.82		0.080	0.060	mg/L		11/03/22 10:25	11/04/22 13:33	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/02/22 21:43	1
Calcium, Dissolved	95		0.50	0.13	mg/L		10/31/22 15:20	11/02/22 21:43	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/02/22 21:43	1
Cobalt, Dissolved	0.00046	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/02/22 21:43	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/02/22 21:43	1
Lithium, Dissolved	0.031		0.0050	0.00083	mg/L		10/31/22 15:20	11/02/22 21:43	1
Molybdenum, Dissolved	0.0020	J	0.015	0.00061	mg/L		10/31/22 15:20	11/02/22 21:43	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/02/22 21:43	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/02/22 21:43	1

Method: SW846 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		10/31/22 07:00	11/02/22 15:18	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	6700		100	100	mg/L			10/25/22 17:43	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-11-1'

Lab Sample ID: 180-146725-29

Date Collected: 10/20/22 09:23

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4300		25	18	mg/L			10/27/22 19:06	25
Fluoride	<0.065	*+	0.50	0.065	mg/L			10/27/22 18:52	2.5
Sulfate	540		2.5	1.9	mg/L			10/27/22 18:52	2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00060	J B	0.0020	0.00051	mg/L		11/03/22 10:25	11/04/22 13:44	1
Arsenic	0.00089	J	0.0010	0.00028	mg/L		10/31/22 15:20	11/02/22 21:54	1
Barium	0.069		0.010	0.0031	mg/L		10/31/22 15:20	11/02/22 21:54	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/02/22 21:54	1
Boron	0.90		0.080	0.060	mg/L		11/03/22 10:25	11/04/22 13:44	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/02/22 21:54	1
Calcium	100		0.50	0.13	mg/L		10/31/22 15:20	11/02/22 21:54	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/02/22 21:54	1
Cobalt	0.00059	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/02/22 21:54	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/02/22 21:54	1
Lithium	0.032		0.0050	0.00083	mg/L		10/31/22 15:20	11/02/22 21:54	1
Molybdenum	0.0018	J	0.015	0.00061	mg/L		10/31/22 15:20	11/02/22 21:54	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/02/22 21:54	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/02/22 21:54	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 15:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	6500		100	100	mg/L			10/25/22 17:43	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-11-1'

Lab Sample ID: 180-146725-30

Date Collected: 10/20/22 09:28

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	4000	^2	25	18	mg/L			10/27/22 20:02	25
Fluoride, Dissolved	<0.065	*+	0.25	0.065	mg/L			10/27/22 19:20	2.5
Sulfate, Dissolved	560		2.5	1.9	mg/L			10/27/22 19:20	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00052	J B	0.0020	0.00051	mg/L		11/03/22 10:25	11/04/22 13:55	1
Arsenic, Dissolved	0.00077	J	0.0010	0.00028	mg/L		10/31/22 15:20	11/02/22 22:05	1
Barium, Dissolved	0.065		0.010	0.0031	mg/L		10/31/22 15:20	11/02/22 22:05	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/02/22 22:05	1
Boron, Dissolved	0.88		0.080	0.060	mg/L		11/03/22 10:25	11/04/22 13:55	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/02/22 22:05	1
Calcium, Dissolved	95		0.50	0.13	mg/L		10/31/22 15:20	11/02/22 22:05	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/02/22 22:05	1
Cobalt, Dissolved	0.00041	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/02/22 22:05	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/02/22 22:05	1
Lithium, Dissolved	0.031		0.0050	0.00083	mg/L		10/31/22 15:20	11/02/22 22:05	1
Molybdenum, Dissolved	0.0018	J	0.015	0.00061	mg/L		10/31/22 15:20	11/02/22 22:05	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/02/22 22:05	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/02/22 22:05	1

Method: SW846 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		10/31/22 07:00	11/02/22 15:20	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	6800		100	100	mg/L			10/25/22 17:43	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-12-1'

Lab Sample ID: 180-146725-31

Date Collected: 10/20/22 08:56

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3400	^2	25	18	mg/L			10/27/22 20:30	25
Fluoride	<0.065	*+	0.50	0.065	mg/L			10/27/22 20:16	2.5
Sulfate	450		2.5	1.9	mg/L			10/27/22 20:16	2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00065	J B	0.0020	0.00051	mg/L		11/03/22 10:25	11/04/22 14:05	1
Arsenic	0.00086	J	0.0010	0.00028	mg/L		10/31/22 15:20	11/02/22 22:16	1
Barium	0.063		0.010	0.0031	mg/L		10/31/22 15:20	11/02/22 22:16	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/02/22 22:16	1
Boron	0.73		0.080	0.060	mg/L		11/03/22 10:25	11/04/22 14:05	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/02/22 22:16	1
Calcium	77		0.50	0.13	mg/L		10/31/22 15:20	11/02/22 22:16	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/02/22 22:16	1
Cobalt	0.00069	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/02/22 22:16	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/02/22 22:16	1
Lithium	0.025		0.0050	0.00083	mg/L		10/31/22 15:20	11/02/22 22:16	1
Molybdenum	0.0015	J	0.015	0.00061	mg/L		10/31/22 15:20	11/02/22 22:16	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/02/22 22:16	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/02/22 22:16	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 15:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	5300		100	100	mg/L			10/25/22 17:43	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-12-1'

Lab Sample ID: 180-146725-32

Date Collected: 10/20/22 09:01

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	3400	^2	25	18	mg/L			10/27/22 20:58	25
Fluoride, Dissolved	<0.065	*+	0.25	0.065	mg/L			10/27/22 20:44	2.5
Sulfate, Dissolved	470		2.5	1.9	mg/L			10/27/22 20:44	2.5

Method: SW846 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		11/03/22 10:25	11/04/22 14:16	1
Arsenic, Dissolved	0.00077	J	0.0010	0.00028	mg/L		10/31/22 15:20	11/02/22 22:27	1
Barium, Dissolved	0.068		0.010	0.0031	mg/L		10/31/22 15:20	11/02/22 22:27	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/02/22 22:27	1
Boron, Dissolved	0.75		0.080	0.060	mg/L		11/03/22 10:25	11/04/22 14:16	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/02/22 22:27	1
Calcium, Dissolved	87		0.50	0.13	mg/L		10/31/22 15:20	11/02/22 22:27	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/02/22 22:27	1
Cobalt, Dissolved	0.00066	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/02/22 22:27	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/02/22 22:27	1
Lithium, Dissolved	0.029		0.0050	0.00083	mg/L		10/31/22 15:20	11/02/22 22:27	1
Molybdenum, Dissolved	0.0017	J	0.015	0.00061	mg/L		10/31/22 15:20	11/02/22 22:27	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/02/22 22:27	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/02/22 22:27	1

Method: SW846 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		10/31/22 07:00	11/02/22 15:25	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	5900		100	100	mg/L			10/26/22 08:57	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-13-1'

Lab Sample ID: 180-146725-33

Date Collected: 10/20/22 14:20

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3200	^2	25	18	mg/L			10/27/22 21:27	25
Fluoride	<0.065	*+	0.50	0.065	mg/L			10/27/22 21:12	2.5
Sulfate	440		2.5	1.9	mg/L			10/27/22 21:12	2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00054	J B	0.0020	0.00051	mg/L		11/03/22 10:25	11/04/22 14:27	1
Arsenic	0.00054	J	0.0010	0.00028	mg/L		10/31/22 15:20	11/02/22 22:38	1
Barium	0.072		0.010	0.0031	mg/L		10/31/22 15:20	11/02/22 22:38	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/02/22 22:38	1
Boron	0.74		0.080	0.060	mg/L		11/03/22 10:25	11/04/22 14:27	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/02/22 22:38	1
Calcium	89	F1	0.50	0.13	mg/L		10/31/22 15:20	11/03/22 18:37	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/02/22 22:38	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/31/22 15:20	11/02/22 22:38	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/02/22 22:38	1
Lithium	0.024		0.0050	0.00083	mg/L		10/31/22 15:20	11/02/22 22:38	1
Molybdenum	0.00071	J	0.015	0.00061	mg/L		10/31/22 15:20	11/02/22 22:38	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/02/22 22:38	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/02/22 22:38	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 15:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	6100		100	100	mg/L			10/26/22 13:33	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-13-1'

Lab Sample ID: 180-146725-34

Date Collected: 10/20/22 14:29

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	3500	^2	25	18	mg/L			10/27/22 21:57	25
Fluoride, Dissolved	<0.065	*+	0.25	0.065	mg/L			10/27/22 21:42	2.5
Sulfate, Dissolved	420		2.5	1.9	mg/L			10/27/22 21:42	2.5

Method: SW846 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		11/03/22 10:25	11/04/22 15:29	1
Arsenic, Dissolved	0.00061	J	0.0010	0.00028	mg/L		10/31/22 15:20	11/02/22 23:35	1
Barium, Dissolved	0.073		0.010	0.0031	mg/L		10/31/22 15:20	11/02/22 23:35	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/02/22 23:35	1
Boron, Dissolved	0.71		0.080	0.060	mg/L		11/03/22 10:25	11/04/22 15:29	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/02/22 23:35	1
Calcium, Dissolved	92		0.50	0.13	mg/L		10/31/22 15:20	11/03/22 19:42	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/02/22 23:35	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		10/31/22 15:20	11/02/22 23:35	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/02/22 23:35	1
Lithium, Dissolved	0.024		0.0050	0.00083	mg/L		10/31/22 15:20	11/02/22 23:35	1
Molybdenum, Dissolved	0.00090	J	0.015	0.00061	mg/L		10/31/22 15:20	11/02/22 23:35	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/02/22 23:35	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/02/22 23:35	1

Method: SW846 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		10/31/22 07:00	11/02/22 15:28	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	5900		100	100	mg/L			10/26/22 13:33	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-14-1'.5'

Lab Sample ID: 180-146725-35

Date Collected: 10/20/22 11:36

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3600	^2	25	18	mg/L			10/27/22 22:56	25
Fluoride	<0.065	*+	0.50	0.065	mg/L			10/27/22 22:12	2.5
Sulfate	400		2.5	1.9	mg/L			10/27/22 22:12	2.5

Method: SW846 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		11/03/22 10:25	11/04/22 15:43	1
Arsenic	0.00048	J	0.0010	0.00028	mg/L		10/31/22 15:20	11/02/22 23:46	1
Barium	0.077		0.010	0.0031	mg/L		10/31/22 15:20	11/02/22 23:46	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/02/22 23:46	1
Boron	0.71		0.080	0.060	mg/L		11/03/22 10:25	11/04/22 15:43	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/02/22 23:46	1
Calcium	92		0.50	0.13	mg/L		10/31/22 15:20	11/03/22 19:56	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/02/22 23:46	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/31/22 15:20	11/02/22 23:46	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/02/22 23:46	1
Lithium	0.023		0.0050	0.00083	mg/L		10/31/22 15:20	11/02/22 23:46	1
Molybdenum	0.00072	J	0.015	0.00061	mg/L		10/31/22 15:20	11/02/22 23:46	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/02/22 23:46	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/02/22 23:46	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 15:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	5700		100	100	mg/L			10/26/22 13:33	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-14-1'.5'

Lab Sample ID: 180-146725-36

Date Collected: 10/20/22 11:44

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	3400	^2	25	18	mg/L			10/28/22 01:53	25
Fluoride, Dissolved	<0.065	*+	0.25	0.065	mg/L			10/28/22 01:09	2.5
Sulfate, Dissolved	400		2.5	1.9	mg/L			10/28/22 01:09	2.5

Method: SW846 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		11/03/22 10:25	11/04/22 15:57	1
Arsenic, Dissolved	0.00060	J	0.0010	0.00028	mg/L		10/31/22 15:20	11/02/22 23:57	1
Barium, Dissolved	0.080		0.010	0.0031	mg/L		10/31/22 15:20	11/02/22 23:57	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/02/22 23:57	1
Boron, Dissolved	0.73		0.080	0.060	mg/L		11/03/22 10:25	11/04/22 15:57	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/02/22 23:57	1
Calcium, Dissolved	98		0.50	0.13	mg/L		10/31/22 15:20	11/03/22 20:10	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/02/22 23:57	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		10/31/22 15:20	11/02/22 23:57	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/02/22 23:57	1
Lithium, Dissolved	0.024		0.0050	0.00083	mg/L		10/31/22 15:20	11/02/22 23:57	1
Molybdenum, Dissolved	0.00091	J	0.015	0.00061	mg/L		10/31/22 15:20	11/02/22 23:57	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/02/22 23:57	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/02/22 23:57	1

Method: SW846 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		10/31/22 07:00	11/02/22 15:30	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	5900		67	67	mg/L			10/27/22 10:45	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-15-1'.5'

Lab Sample ID: 180-146725-37

Date Collected: 10/20/22 12:07

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3600	^2	25	18	mg/L			10/27/22 23:25	25
Fluoride	<0.065	*+	0.50	0.065	mg/L			10/27/22 23:11	2.5
Sulfate	400		2.5	1.9	mg/L			10/27/22 23:11	2.5

Method: SW846 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		11/03/22 10:25	11/04/22 16:12	1
Arsenic	0.00051	J	0.0010	0.00028	mg/L		10/31/22 15:20	11/03/22 00:12	1
Barium	0.079		0.010	0.0031	mg/L		10/31/22 15:20	11/03/22 00:12	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/03/22 00:12	1
Boron	0.73		0.080	0.060	mg/L		11/03/22 10:25	11/04/22 16:12	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/03/22 00:12	1
Calcium	97		0.50	0.13	mg/L		10/31/22 15:20	11/03/22 20:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/03/22 00:12	1
Cobalt	0.00029	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/03/22 00:12	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/03/22 00:12	1
Lithium	0.023		0.0050	0.00083	mg/L		10/31/22 15:20	11/03/22 00:12	1
Molybdenum	0.00071	J	0.015	0.00061	mg/L		10/31/22 15:20	11/03/22 00:12	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/03/22 00:12	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/03/22 00:12	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 15:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	5800		100	100	mg/L			10/26/22 13:33	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-15-1'.5'

Lab Sample ID: 180-146725-38

Date Collected: 10/20/22 12:15

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	3500		25	18	mg/L			10/27/22 21:53	25
Fluoride, Dissolved	<0.065		0.25	0.065	mg/L			10/27/22 21:39	2.5
Sulfate, Dissolved	400		2.5	1.9	mg/L			10/27/22 21:39	2.5

Method: SW846 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		11/03/22 10:25	11/04/22 16:26	1
Arsenic, Dissolved	0.00048	J	0.0010	0.00028	mg/L		10/31/22 15:20	11/03/22 00:23	1
Barium, Dissolved	0.081		0.010	0.0031	mg/L		10/31/22 15:20	11/03/22 00:23	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/03/22 00:23	1
Boron, Dissolved	0.70		0.080	0.060	mg/L		11/03/22 10:25	11/04/22 16:26	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/03/22 00:23	1
Calcium, Dissolved	98		0.50	0.13	mg/L		10/31/22 15:20	11/03/22 20:39	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/03/22 00:23	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		10/31/22 15:20	11/03/22 00:23	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/03/22 00:23	1
Lithium, Dissolved	0.024		0.0050	0.00083	mg/L		10/31/22 15:20	11/03/22 00:23	1
Molybdenum, Dissolved	0.00070	J	0.015	0.00061	mg/L		10/31/22 15:20	11/03/22 00:23	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/03/22 00:23	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/03/22 00:23	1

Method: SW846 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		10/31/22 07:00	11/02/22 15:32	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	5600		100	100	mg/L			10/26/22 14:40	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-16-1'.5'

Lab Sample ID: 180-146725-39

Date Collected: 10/20/22 13:06

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3100	^2	25	18	mg/L			10/28/22 02:23	25
Fluoride	<0.065	*+	0.50	0.065	mg/L			10/28/22 02:08	2.5
Sulfate	390		2.5	1.9	mg/L			10/28/22 02:08	2.5

Method: SW846 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		11/03/22 10:25	11/04/22 16:41	1
Arsenic	0.00053	J	0.0010	0.00028	mg/L		10/31/22 15:20	11/03/22 00:44	1
Barium	0.080		0.010	0.0031	mg/L		10/31/22 15:20	11/03/22 00:44	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/03/22 00:44	1
Boron	0.64		0.080	0.060	mg/L		11/03/22 10:25	11/04/22 16:41	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/03/22 00:44	1
Calcium	91		0.50	0.13	mg/L		10/31/22 15:20	11/03/22 20:54	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/03/22 00:44	1
Cobalt	0.00035	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/03/22 00:44	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/03/22 00:44	1
Lithium	0.022		0.0050	0.00083	mg/L		10/31/22 15:20	11/03/22 00:44	1
Molybdenum	0.00082	J	0.015	0.00061	mg/L		10/31/22 15:20	11/03/22 00:44	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/03/22 00:44	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/03/22 00:44	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 15:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	5500		67	67	mg/L			10/27/22 10:45	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: SW-16-1'.5'

Lab Sample ID: 180-146725-40

Date Collected: 10/20/22 13:15

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	3400		25	18	mg/L			10/27/22 22:23	25
Fluoride, Dissolved	<0.065		0.25	0.065	mg/L			10/27/22 22:08	2.5
Sulfate, Dissolved	380		2.5	1.9	mg/L			10/27/22 22:08	2.5

Method: SW846 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		11/03/22 10:25	11/04/22 16:55	1
Arsenic, Dissolved	0.00056	J	0.0010	0.00028	mg/L		10/31/22 15:20	11/03/22 00:55	1
Barium, Dissolved	0.074		0.010	0.0031	mg/L		10/31/22 15:20	11/03/22 00:55	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/03/22 00:55	1
Boron, Dissolved	0.62		0.080	0.060	mg/L		11/03/22 10:25	11/04/22 16:55	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/03/22 00:55	1
Calcium, Dissolved	83		0.50	0.13	mg/L		10/31/22 15:20	11/03/22 21:16	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/03/22 00:55	1
Cobalt, Dissolved	0.00028	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/03/22 00:55	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/03/22 00:55	1
Lithium, Dissolved	0.021		0.0050	0.00083	mg/L		10/31/22 15:20	11/03/22 00:55	1
Molybdenum, Dissolved	0.00073	J	0.015	0.00061	mg/L		10/31/22 15:20	11/03/22 00:55	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/03/22 00:55	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/03/22 00:55	1

Method: SW846 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		10/31/22 07:00	11/02/22 15:42	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	5500		100	100	mg/L			10/26/22 13:33	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: DUP-01

Lab Sample ID: 180-146725-41

Date Collected: 10/20/22 15:20

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5600	^2	25	18	mg/L			10/28/22 02:52	25
Fluoride	<0.065	*+	0.50	0.065	mg/L			10/28/22 02:38	2.5
Sulfate	770		2.5	1.9	mg/L			10/28/22 02:38	2.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00051	J B	0.0020	0.00051	mg/L		11/03/22 10:25	11/04/22 17:17	1
Arsenic	0.0012		0.0010	0.00028	mg/L		10/31/22 15:20	11/03/22 01:06	1
Barium	0.066		0.010	0.0031	mg/L		10/31/22 15:20	11/03/22 01:06	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/03/22 01:06	1
Boron	1.4		0.080	0.060	mg/L		11/03/22 10:25	11/05/22 14:44	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/03/22 01:06	1
Calcium	150		0.50	0.13	mg/L		10/31/22 15:20	11/03/22 21:26	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/03/22 01:06	1
Cobalt	0.00056	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/03/22 01:06	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/03/22 01:06	1
Lithium	0.046		0.0050	0.00083	mg/L		10/31/22 15:20	11/03/22 01:06	1
Molybdenum	0.0029	J	0.015	0.00061	mg/L		10/31/22 15:20	11/03/22 01:06	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/03/22 01:06	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/03/22 01:06	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 15:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	9600		100	100	mg/L			10/27/22 10:45	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: DUP-01

Lab Sample ID: 180-146725-42

Date Collected: 10/20/22 11:51

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	5900	^2	25	18	mg/L			10/28/22 03:22	25
Fluoride, Dissolved	<0.065	*+	0.25	0.065	mg/L			10/28/22 03:07	2.5
Sulfate, Dissolved	750		2.5	1.9	mg/L			10/28/22 03:07	2.5

Method: SW846 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		11/03/22 10:25	11/04/22 17:32	1
Arsenic, Dissolved	0.00097	J	0.0010	0.00028	mg/L		10/31/22 15:20	11/03/22 01:20	1
Barium, Dissolved	0.067		0.010	0.0031	mg/L		10/31/22 15:20	11/03/22 01:20	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/03/22 01:20	1
Boron, Dissolved	1.5		0.080	0.060	mg/L		11/03/22 10:25	11/05/22 14:58	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/03/22 01:20	1
Calcium, Dissolved	160		0.50	0.13	mg/L		10/31/22 15:20	11/03/22 21:41	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/03/22 01:20	1
Cobalt, Dissolved	0.00058	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/03/22 01:20	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/03/22 01:20	1
Lithium, Dissolved	0.045		0.0050	0.00083	mg/L		10/31/22 15:20	11/03/22 01:20	1
Molybdenum, Dissolved	0.0032	J	0.015	0.00061	mg/L		10/31/22 15:20	11/03/22 01:20	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/03/22 01:20	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/03/22 01:20	1

Method: SW846 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		10/31/22 07:00	11/02/22 15:44	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	10000		100	100	mg/L			10/27/22 10:45	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: DUP-02

Lab Sample ID: 180-146725-43

Date Collected: 10/20/22 12:15

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3200	^2	25	18	mg/L			10/28/22 03:52	25
Fluoride	<0.065	*+	0.50	0.065	mg/L			10/28/22 03:37	2.5
Sulfate	380		2.5	1.9	mg/L			10/28/22 03:37	2.5

Method: SW846 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		11/03/22 10:25	11/04/22 17:46	1
Arsenic	0.00056	J	0.0010	0.00028	mg/L		10/31/22 15:20	11/03/22 01:35	1
Barium	0.071		0.010	0.0031	mg/L		10/31/22 15:20	11/03/22 01:35	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/03/22 01:35	1
Boron	0.74		0.080	0.060	mg/L		11/03/22 10:25	11/05/22 15:13	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/03/22 01:35	1
Calcium	87		0.50	0.13	mg/L		10/31/22 15:20	11/03/22 21:55	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/03/22 01:35	1
Cobalt	0.00030	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/03/22 01:35	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/03/22 01:35	1
Lithium	0.021		0.0050	0.00083	mg/L		10/31/22 15:20	11/03/22 01:35	1
Molybdenum	0.00071	J	0.015	0.00061	mg/L		10/31/22 15:20	11/03/22 01:35	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/03/22 01:35	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/03/22 01:35	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 15:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	5700		67	67	mg/L			10/27/22 10:45	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: DUP-02

Lab Sample ID: 180-146725-44

Date Collected: 10/20/22 12:06

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	3300	^2	25	18	mg/L			10/28/22 04:51	25
Fluoride, Dissolved	<0.065	*+	0.25	0.065	mg/L			10/28/22 04:07	2.5
Sulfate, Dissolved	380		2.5	1.9	mg/L			10/28/22 04:07	2.5

Method: SW846 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		11/03/22 10:25	11/04/22 18:01	1
Arsenic, Dissolved	0.00052	J	0.0010	0.00028	mg/L		10/31/22 15:20	11/03/22 01:46	1
Barium, Dissolved	0.078		0.010	0.0031	mg/L		10/31/22 15:20	11/03/22 01:46	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/03/22 01:46	1
Boron, Dissolved	0.69		0.080	0.060	mg/L		11/03/22 10:25	11/05/22 15:34	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/03/22 01:46	1
Calcium, Dissolved	94		0.50	0.13	mg/L		10/31/22 15:20	11/03/22 22:10	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/03/22 01:46	1
Cobalt, Dissolved	0.00029	J	0.0025	0.00026	mg/L		10/31/22 15:20	11/03/22 01:46	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/03/22 01:46	1
Lithium, Dissolved	0.021		0.0050	0.00083	mg/L		10/31/22 15:20	11/03/22 01:46	1
Molybdenum, Dissolved	0.00072	J	0.015	0.00061	mg/L		10/31/22 15:20	11/03/22 01:46	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/03/22 01:46	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/03/22 01:46	1

Method: SW846 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		10/31/22 07:00	11/02/22 15:46	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	5800		67	67	mg/L			10/27/22 10:45	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: DUP-03

Lab Sample ID: 180-146725-45

Date Collected: 10/20/22 16:20

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5300		25	18	mg/L			10/27/22 23:22	25
Fluoride	<0.065		0.50	0.065	mg/L			10/27/22 22:38	2.5
Sulfate	750		2.5	1.9	mg/L			10/27/22 22:38	2.5

Method: SW846 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		11/03/22 10:25	11/04/22 18:15	1
Arsenic	0.0013		0.0010	0.00028	mg/L		10/31/22 15:20	11/03/22 02:00	1
Barium	0.063		0.010	0.0031	mg/L		10/31/22 15:20	11/03/22 02:00	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/03/22 02:00	1
Boron	1.5		0.080	0.060	mg/L		11/03/22 10:25	11/05/22 15:45	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/03/22 02:00	1
Calcium	170		0.50	0.13	mg/L		10/31/22 15:20	11/03/22 22:24	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/03/22 02:00	1
Cobalt	0.00055 J		0.0025	0.00026	mg/L		10/31/22 15:20	11/03/22 02:00	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/03/22 02:00	1
Lithium	0.044		0.0050	0.00083	mg/L		10/31/22 15:20	11/03/22 02:00	1
Molybdenum	0.0029 J		0.015	0.00061	mg/L		10/31/22 15:20	11/03/22 02:00	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/03/22 02:00	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/03/22 02:00	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 15:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	9500		100	100	mg/L			10/26/22 13:33	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: EB-01
Date Collected: 10/20/22 07:15
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-46
Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.71	mg/L			10/28/22 17:23	1
Fluoride	<0.026		0.20	0.026	mg/L			10/28/22 00:07	1
Sulfate	<0.76		1.0	0.76	mg/L			10/28/22 00:07	1

Method: SW846 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		11/01/22 14:05	11/02/22 15:54	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		11/01/22 14:05	11/02/22 15:54	1
Barium	<0.0031		0.010	0.0031	mg/L		11/01/22 14:05	11/02/22 15:54	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		11/01/22 14:05	11/02/22 15:54	1
Boron	<0.060		0.080	0.060	mg/L		11/01/22 14:05	11/02/22 15:54	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/01/22 14:05	11/02/22 15:54	1
Calcium	<0.13		0.50	0.13	mg/L		11/01/22 14:05	11/02/22 15:54	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/01/22 14:05	11/02/22 15:54	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		11/01/22 14:05	11/02/22 15:54	1
Lead	<0.00017		0.0010	0.00017	mg/L		11/01/22 14:05	11/02/22 15:54	1
Lithium	<0.00083		0.0050	0.00083	mg/L		11/01/22 14:05	11/02/22 15:54	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/01/22 14:05	11/02/22 15:54	1
Selenium	<0.00074		0.0050	0.00074	mg/L		11/01/22 14:05	11/02/22 15:54	1
Thallium	<0.00047		0.0010	0.00047	mg/L		11/01/22 14:05	11/02/22 15:54	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 15:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			10/26/22 13:33	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: FB-01

Lab Sample ID: 180-146725-47

Date Collected: 10/20/22 07:29

Matrix: Water

Date Received: 10/22/22 14:24

Method: MCAWW 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			10/28/22 18:07	1
Fluoride	<0.026		0.20	0.026	mg/L			10/28/22 00:21	1
Sulfate	<0.76		1.0	0.76	mg/L			10/28/22 00:21	1

Method: SW846 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		11/01/22 14:05	11/02/22 15:58	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		11/01/22 14:05	11/02/22 15:58	1
Barium	<0.0031		0.010	0.0031	mg/L		11/01/22 14:05	11/02/22 15:58	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		11/01/22 14:05	11/02/22 15:58	1
Boron	<0.060		0.080	0.060	mg/L		11/01/22 14:05	11/02/22 15:58	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/01/22 14:05	11/02/22 15:58	1
Calcium	<0.13		0.50	0.13	mg/L		11/01/22 14:05	11/02/22 15:58	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/01/22 14:05	11/02/22 15:58	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		11/01/22 14:05	11/02/22 15:58	1
Lead	<0.00017		0.0010	0.00017	mg/L		11/01/22 14:05	11/02/22 15:58	1
Lithium	<0.00083		0.0050	0.00083	mg/L		11/01/22 14:05	11/02/22 15:58	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/01/22 14:05	11/02/22 15:58	1
Selenium	<0.00074		0.0050	0.00074	mg/L		11/01/22 14:05	11/02/22 15:58	1
Thallium	<0.00047		0.0010	0.00047	mg/L		11/01/22 14:05	11/02/22 15:58	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 15:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			10/26/22 13:33	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: EB-02
Date Collected: 10/20/22 18:01
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-48
Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4		1.0	0.71	mg/L			10/28/22 18:22	1
Fluoride	<0.026		0.20	0.026	mg/L			10/27/22 20:54	1
Sulfate	<0.76		1.0	0.76	mg/L			10/27/22 20:54	1

Method: SW846 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		11/01/22 14:05	11/02/22 16:01	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		11/01/22 14:05	11/02/22 16:01	1
Barium	<0.0031		0.010	0.0031	mg/L		11/01/22 14:05	11/02/22 16:01	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		11/01/22 14:05	11/02/22 16:01	1
Boron	<0.060		0.080	0.060	mg/L		11/01/22 14:05	11/02/22 16:01	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/01/22 14:05	11/02/22 16:01	1
Calcium	<0.13		0.50	0.13	mg/L		11/01/22 14:05	11/02/22 16:01	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/01/22 14:05	11/02/22 16:01	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		11/01/22 14:05	11/02/22 16:01	1
Lead	<0.00017		0.0010	0.00017	mg/L		11/01/22 14:05	11/02/22 16:01	1
Lithium	<0.00083		0.0050	0.00083	mg/L		11/01/22 14:05	11/02/22 16:01	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/01/22 14:05	11/02/22 16:01	1
Selenium	<0.00074		0.0050	0.00074	mg/L		11/01/22 14:05	11/02/22 16:01	1
Thallium	<0.00047		0.0010	0.00047	mg/L		11/01/22 14:05	11/02/22 16:01	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 15:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			10/26/22 13:33	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: FB-02
Date Collected: 10/20/22 18:10
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-49
Matrix: Water

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.1		1.0	0.71	mg/L			10/28/22 18:36	1
Fluoride	<0.026		0.20	0.026	mg/L			10/28/22 00:36	1
Sulfate	<0.76		1.0	0.76	mg/L			10/28/22 00:36	1

Method: SW846 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		11/01/22 14:05	11/02/22 16:04	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		11/01/22 14:05	11/02/22 16:04	1
Barium	<0.0031		0.010	0.0031	mg/L		11/01/22 14:05	11/02/22 16:04	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		11/01/22 14:05	11/02/22 16:04	1
Boron	<0.060		0.080	0.060	mg/L		11/01/22 14:05	11/02/22 16:04	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/01/22 14:05	11/02/22 16:04	1
Calcium	<0.13		0.50	0.13	mg/L		11/01/22 14:05	11/02/22 16:04	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/01/22 14:05	11/02/22 16:04	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		11/01/22 14:05	11/02/22 16:04	1
Lead	<0.00017		0.0010	0.00017	mg/L		11/01/22 14:05	11/02/22 16:04	1
Lithium	<0.00083		0.0050	0.00083	mg/L		11/01/22 14:05	11/02/22 16:04	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/01/22 14:05	11/02/22 16:04	1
Selenium	<0.00074		0.0050	0.00074	mg/L		11/01/22 14:05	11/02/22 16:04	1
Thallium	<0.00047		0.0010	0.00047	mg/L		11/01/22 14:05	11/02/22 16:04	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 15:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			10/26/22 13:33	1

Client Sample Results

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

Job ID: 180-146725-1

Client Sample ID: DUP-03

Lab Sample ID: 180-146725-50

Date Collected: 10/20/22 16:09

Matrix: Water

Date Received: 10/22/22 14:24

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	5400		25	18	mg/L			10/27/22 23:52	25
Fluoride, Dissolved	<0.065		0.25	0.065	mg/L			10/27/22 23:37	2.5
Sulfate, Dissolved	740		2.5	1.9	mg/L			10/27/22 23:37	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.00064	J	0.0020	0.00051	mg/L		11/01/22 14:05	11/02/22 16:08	1
Arsenic, Dissolved	0.0011		0.0010	0.00028	mg/L		11/01/22 14:05	11/02/22 16:08	1
Barium, Dissolved	0.063		0.010	0.0031	mg/L		11/01/22 14:05	11/02/22 16:08	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		11/01/22 14:05	11/02/22 16:08	1
Boron, Dissolved	1.4		0.080	0.060	mg/L		11/01/22 14:05	11/02/22 16:08	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		11/01/22 14:05	11/02/22 16:08	1
Calcium, Dissolved	130		0.50	0.13	mg/L		11/01/22 14:05	11/02/22 16:08	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		11/01/22 14:05	11/02/22 16:08	1
Cobalt, Dissolved	0.00042	J	0.0025	0.00026	mg/L		11/01/22 14:05	11/02/22 16:08	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		11/01/22 14:05	11/02/22 16:08	1
Lithium, Dissolved	0.049		0.0050	0.00083	mg/L		11/01/22 14:05	11/02/22 16:08	1
Molybdenum, Dissolved	0.0031	J	0.015	0.00061	mg/L		11/01/22 14:05	11/02/22 16:08	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		11/01/22 14:05	11/02/22 16:08	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		11/01/22 14:05	11/02/22 16:08	1

Method: SW846 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		10/31/22 07:00	11/02/22 15:55	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	9500		100	100	mg/L			10/26/22 13:33	1

QC Sample Results

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

Job ID: 180-146725-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-416135/54
Matrix: Water
Analysis Batch: 416135

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			10/26/22 05:58	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			10/26/22 05:58	1
Fluoride	<0.026		0.10	0.026	mg/L			10/26/22 05:58	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			10/26/22 05:58	1
Sulfate	<0.76		1.0	0.76	mg/L			10/26/22 05:58	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			10/26/22 05:58	1

Lab Sample ID: MB 180-416135/6
Matrix: Water
Analysis Batch: 416135

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			10/25/22 13:30	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			10/25/22 13:30	1
Fluoride	<0.026		0.10	0.026	mg/L			10/25/22 13:30	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			10/25/22 13:30	1
Sulfate	<0.76		1.0	0.76	mg/L			10/25/22 13:30	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			10/25/22 13:30	1

Lab Sample ID: LCS 180-416135/55
Matrix: Water
Analysis Batch: 416135

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	48.2		mg/L		96	90 - 110
Chloride, Dissolved	50.0	48.2		mg/L		96	90 - 110
Fluoride	2.50	2.43		mg/L		97	90 - 110
Fluoride, Dissolved	2.50	2.43		mg/L		97	90 - 110
Sulfate	50.0	49.4		mg/L		99	90 - 110
Sulfate, Dissolved	50.0	49.4		mg/L		99	90 - 110

Lab Sample ID: LCS 180-416135/7
Matrix: Water
Analysis Batch: 416135

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	47.4		mg/L		95	90 - 110
Chloride, Dissolved	50.0	47.4		mg/L		95	90 - 110
Fluoride	2.50	2.61		mg/L		104	90 - 110
Fluoride, Dissolved	2.50	2.61		mg/L		104	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: 180-146725-1 MS
Matrix: Water
Analysis Batch: 416135

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	0.23	J F1	6.25	4.09	F1	mg/L		62	90 - 110

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QC Sample Results

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

Job ID: 180-146725-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-146725-1 MS
Matrix: Water
Analysis Batch: 416135

Client Sample ID: SW-1-1'
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
Fluoride, Dissolved	0.23	J F1	6.25	4.09	F1	mg/L		62	90 - 110	
Sulfate	730		125	847	4	mg/L		96	90 - 110	
Sulfate, Dissolved	730		125	847	4	mg/L		96	90 - 110	

Lab Sample ID: 180-146725-1 MS
Matrix: Water
Analysis Batch: 416135

Client Sample ID: SW-1-1'
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
Chloride	5500		1250	6460	4	mg/L		78	90 - 110	
Chloride, Dissolved	5500		1250	6460	4	mg/L		78	90 - 110	

Lab Sample ID: 180-146725-1 MSD
Matrix: Water
Analysis Batch: 416135

Client Sample ID: SW-1-1'
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Fluoride	0.23	J F1	6.25	4.11	F1	mg/L		62	90 - 110	1	20	
Fluoride, Dissolved	0.23	J F1	6.25	4.11	F1	mg/L		62	90 - 110	1	20	
Sulfate	730		125	847	4	mg/L		96	90 - 110	0	20	
Sulfate, Dissolved	730		125	847	4	mg/L		96	90 - 110	0	20	

Lab Sample ID: 180-146725-1 MSD
Matrix: Water
Analysis Batch: 416135

Client Sample ID: SW-1-1'
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
Chloride	5500		1250	6460	4	mg/L		78	90 - 110	0	20	
Chloride, Dissolved	5500		1250	6460	4	mg/L		78	90 - 110	0	20	

Lab Sample ID: MB 180-416260/22
Matrix: Water
Analysis Batch: 416260

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

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.71		1.0	0.71	mg/L			10/26/22 19:17	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			10/26/22 19:17	1
Fluoride	<0.026		0.20	0.026	mg/L			10/26/22 19:17	1
Fluoride, Dissolved	<0.026		0.20	0.026	mg/L			10/26/22 19:17	1
Sulfate	<0.76		1.0	0.76	mg/L			10/26/22 19:17	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			10/26/22 19:17	1

Lab Sample ID: LCS 180-416260/23
Matrix: Water
Analysis Batch: 416260

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

Analyte	Spike	LCS		Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Chloride	50.0	48.1		mg/L		96	90 - 110	
Chloride, Dissolved	50.0	48.1		mg/L		96	90 - 110	
Fluoride	2.50	2.48		mg/L		99	90 - 110	

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QC Sample Results

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

Job ID: 180-146725-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 180-416260/23
Matrix: Water
Analysis Batch: 416260

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride, Dissolved	2.50	2.48		mg/L		99	90 - 110
Sulfate	50.0	47.6		mg/L		95	90 - 110
Sulfate, Dissolved	50.0	47.6		mg/L		95	90 - 110

Lab Sample ID: MB 180-416297/6
Matrix: Water
Analysis Batch: 416297

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			10/26/22 14:58	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			10/26/22 14:58	1
Fluoride	<0.026		0.10	0.026	mg/L			10/26/22 14:58	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			10/26/22 14:58	1
Sulfate	<0.76		1.0	0.76	mg/L			10/26/22 14:58	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			10/26/22 14:58	1

Lab Sample ID: LCS 180-416297/7
Matrix: Water
Analysis Batch: 416297

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	47.4		mg/L		95	90 - 110
Chloride, Dissolved	50.0	47.4		mg/L		95	90 - 110
Fluoride	2.50	2.52		mg/L		101	90 - 110
Fluoride, Dissolved	2.50	2.52		mg/L		101	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: MB 180-416391/6
Matrix: Water
Analysis Batch: 416391

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			10/27/22 14:11	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			10/27/22 14:11	1
Fluoride	<0.026		0.20	0.026	mg/L			10/27/22 14:11	1
Fluoride, Dissolved	<0.026		0.20	0.026	mg/L			10/27/22 14:11	1
Sulfate	<0.76		1.0	0.76	mg/L			10/27/22 14:11	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			10/27/22 14:11	1

Lab Sample ID: LCS 180-416391/7
Matrix: Water
Analysis Batch: 416391

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	52.9		mg/L		106	90 - 110
Chloride, Dissolved	50.0	52.9		mg/L		106	90 - 110
Fluoride	2.50	2.87	*+	mg/L		115	90 - 110
Fluoride, Dissolved	2.50	2.87	*+	mg/L		115	90 - 110
Sulfate	50.0	52.8		mg/L		106	90 - 110

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QC Sample Results

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

Job ID: 180-146725-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 180-416391/7
Matrix: Water
Analysis Batch: 416391

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate, Dissolved	50.0	52.8		mg/L		106	90 - 110

Lab Sample ID: MB 180-416393/6
Matrix: Water
Analysis Batch: 416393

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			10/27/22 20:25	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			10/27/22 20:25	1
Fluoride	<0.026		0.20	0.026	mg/L			10/27/22 20:25	1
Fluoride, Dissolved	<0.026		0.20	0.026	mg/L			10/27/22 20:25	1
Sulfate	<0.76		1.0	0.76	mg/L			10/27/22 20:25	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			10/27/22 20:25	1

Lab Sample ID: LCS 180-416393/7
Matrix: Water
Analysis Batch: 416393

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	50.3		mg/L		101	90 - 110
Chloride, Dissolved	50.0	50.3		mg/L		101	90 - 110
Fluoride	2.50	2.62		mg/L		105	90 - 110
Fluoride, Dissolved	2.50	2.62		mg/L		105	90 - 110
Sulfate	50.0	49.6		mg/L		99	90 - 110
Sulfate, Dissolved	50.0	49.6		mg/L		99	90 - 110

Lab Sample ID: 180-146725-48 MS
Matrix: Water
Analysis Batch: 416393

Client Sample ID: EB-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2.1		50.0	51.5		mg/L		99	90 - 110
Chloride, Dissolved	2.1		50.0	51.5		mg/L		99	90 - 110
Fluoride	<0.026		2.50	2.60		mg/L		104	90 - 110
Fluoride, Dissolved	<0.026		2.50	2.60		mg/L		104	90 - 110
Sulfate	<0.76		50.0	49.1		mg/L		98	90 - 110
Sulfate, Dissolved	<0.76		50.0	49.1		mg/L		98	90 - 110

Lab Sample ID: 180-146725-48 MSD
Matrix: Water
Analysis Batch: 416393

Client Sample ID: EB-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	2.1		50.0	48.9		mg/L		94	90 - 110	5	20
Chloride, Dissolved	2.1		50.0	48.9		mg/L		94	90 - 110	5	20
Fluoride	<0.026		2.50	2.48		mg/L		99	90 - 110	5	20
Fluoride, Dissolved	<0.026		2.50	2.48		mg/L		99	90 - 110	5	20
Sulfate	<0.76		50.0	47.0		mg/L		94	90 - 110	4	20
Sulfate, Dissolved	<0.76		50.0	47.0		mg/L		94	90 - 110	4	20

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QC Sample Results

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

Job ID: 180-146725-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 180-416560/6
Matrix: Water
Analysis Batch: 416560

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.71		1.0	0.71	mg/L			10/28/22 15:16	1
Fluoride	<0.026		0.20	0.026	mg/L			10/28/22 15:16	1
Sulfate	<0.76		1.0	0.76	mg/L			10/28/22 15:16	1

Lab Sample ID: LCS 180-416560/7
Matrix: Water
Analysis Batch: 416560

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	2.50	2.63		mg/L		105	90 - 110
Sulfate	50.0	50.0		mg/L		100	90 - 110

Lab Sample ID: MB 180-416571/29
Matrix: Water
Analysis Batch: 416571

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.71		1.0	0.71	mg/L			10/28/22 22:44	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			10/28/22 22:44	1
Fluoride	<0.026		0.10	0.026	mg/L			10/28/22 22:44	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			10/28/22 22:44	1
Sulfate	<0.76		1.0	0.76	mg/L			10/28/22 22:44	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			10/28/22 22:44	1

Lab Sample ID: LCS 180-416571/30
Matrix: Water
Analysis Batch: 416571

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride, Dissolved	50.0	48.5		mg/L		97	90 - 110
Fluoride	2.50	2.68		mg/L		107	90 - 110
Fluoride, Dissolved	2.50	2.68		mg/L		107	90 - 110
Sulfate	50.0	49.7		mg/L		99	90 - 110
Sulfate, Dissolved	50.0	49.7		mg/L		99	90 - 110

Lab Sample ID: 180-146725-10 MS
Matrix: Water
Analysis Batch: 416297

Client Sample ID: SW-3-1'
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
	Chloride	5200		E	125				
Chloride, Dissolved	5200	E	125	5310	E 4	mg/L		52	90 - 110
Fluoride	0.34	F1	6.25	4.28	F1	mg/L		63	90 - 110
Fluoride, Dissolved	0.34	F1	6.25	4.28	F1	mg/L		63	90 - 110
Sulfate	740		125	868	4	mg/L		99	90 - 110
Sulfate, Dissolved	740		125	868	4	mg/L		99	90 - 110

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QC Sample Results

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

Job ID: 180-146725-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-146725-10 MSD
Matrix: Water
Analysis Batch: 416297

Client Sample ID: SW-3-1'
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5200	E	125	5340	E 4	mg/L		76	90 - 110	1	20
Chloride, Dissolved	5200	E	125	5340	E 4	mg/L		76	90 - 110	1	20
Fluoride	0.34	F1	6.25	4.18	F1	mg/L		62	90 - 110	2	20
Fluoride, Dissolved	0.34	F1	6.25	4.18	F1	mg/L		62	90 - 110	2	20
Sulfate	740		125	871	4	mg/L		101	90 - 110	0	20
Sulfate, Dissolved	740		125	871	4	mg/L		101	90 - 110	0	20

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-416637/37
Matrix: Water
Analysis Batch: 416637

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			10/29/22 21:18	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			10/29/22 21:18	1

Lab Sample ID: LCS 180-416637/38
Matrix: Water
Analysis Batch: 416637

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride, Dissolved	50.0	48.4		mg/L		97	90 - 110
Sulfate, Dissolved	50.0	49.6		mg/L		99	90 - 110

Lab Sample ID: MB 180-416864/28
Matrix: Water
Analysis Batch: 416864

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			11/01/22 20:11	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			11/01/22 20:11	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			11/01/22 20:11	1

Lab Sample ID: LCS 180-416864/29
Matrix: Water
Analysis Batch: 416864

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride, Dissolved	50.0	49.7		mg/L		99	90 - 110
Fluoride, Dissolved	2.50	2.59		mg/L		104	90 - 110
Sulfate, Dissolved	50.0	49.7		mg/L		99	90 - 110

QC Sample Results

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

Job ID: 180-146725-1

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

Lab Sample ID: MB 180-416774/1-A
Matrix: Water
Analysis Batch: 416939

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 416774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		10/31/22 15:20	11/01/22 18:18	1
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		10/31/22 15:20	11/01/22 18:18	1
Boron	<0.060		0.080	0.060	mg/L		10/31/22 15:20	11/01/22 18:18	1
Boron, Dissolved	<0.060		0.080	0.060	mg/L		10/31/22 15:20	11/01/22 18:18	1
Calcium	<0.13		0.50	0.13	mg/L		10/31/22 15:20	11/01/22 18:18	1
Calcium, Dissolved	<0.13		0.50	0.13	mg/L		10/31/22 15:20	11/01/22 18:18	1

Lab Sample ID: LCS 180-416774/2-A
Matrix: Water
Analysis Batch: 416939

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 416774

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	1.09		mg/L		109	80 - 120
Arsenic, Dissolved	1.00	1.09		mg/L		109	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	0.563		mg/L		113	80 - 120
Beryllium, Dissolved	0.500	0.563		mg/L		113	80 - 120
Cadmium	0.500	0.556		mg/L		111	80 - 120
Cadmium, Dissolved	0.500	0.556		mg/L		111	80 - 120
Chromium	0.500	0.556		mg/L		111	80 - 120
Chromium, Dissolved	0.500	0.556		mg/L		111	80 - 120
Cobalt	0.500	0.542		mg/L		108	80 - 120
Cobalt, Dissolved	0.500	0.542		mg/L		108	80 - 120
Lead	0.500	0.555		mg/L		111	80 - 120
Lead, Dissolved	0.500	0.555		mg/L		111	80 - 120
Lithium	0.500	0.517		mg/L		103	80 - 120
Lithium, Dissolved	0.500	0.517		mg/L		103	80 - 120
Molybdenum	0.500	0.564		mg/L		113	80 - 120
Molybdenum, Dissolved	0.500	0.564		mg/L		113	80 - 120
Selenium	1.00	1.05		mg/L		105	80 - 120
Selenium, Dissolved	1.00	1.05		mg/L		105	80 - 120
Thallium	1.00	1.14		mg/L		114	80 - 120
Thallium, Dissolved	1.00	1.14		mg/L		114	80 - 120

Lab Sample ID: MB 180-416775/1-A
Matrix: Water
Analysis Batch: 417094

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 416775

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00028		0.0010	0.00028	mg/L		10/31/22 15:20	11/02/22 20:53	1
Arsenic, Dissolved	<0.00028		0.0010	0.00028	mg/L		10/31/22 15:20	11/02/22 20:53	1
Barium	<0.0031		0.010	0.0031	mg/L		10/31/22 15:20	11/02/22 20:53	1
Barium, Dissolved	<0.0031		0.010	0.0031	mg/L		10/31/22 15:20	11/02/22 20:53	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/02/22 20:53	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		10/31/22 15:20	11/02/22 20:53	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/02/22 20:53	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		10/31/22 15:20	11/02/22 20:53	1
Calcium	<0.13		0.50	0.13	mg/L		10/31/22 15:20	11/02/22 20:53	1

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QC Sample Results

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

Job ID: 180-146725-1

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

Lab Sample ID: MB 180-416775/1-A
Matrix: Water
Analysis Batch: 417094

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 416775

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium, Dissolved	<0.13		0.50	0.13	mg/L		10/31/22 15:20	11/02/22 20:53	1
Chromium	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/02/22 20:53	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		10/31/22 15:20	11/02/22 20:53	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		10/31/22 15:20	11/02/22 20:53	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		10/31/22 15:20	11/02/22 20:53	1
Lead	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/02/22 20:53	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		10/31/22 15:20	11/02/22 20:53	1
Lithium	<0.00083		0.0050	0.00083	mg/L		10/31/22 15:20	11/02/22 20:53	1
Lithium, Dissolved	<0.00083		0.0050	0.00083	mg/L		10/31/22 15:20	11/02/22 20:53	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		10/31/22 15:20	11/02/22 20:53	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		10/31/22 15:20	11/02/22 20:53	1
Selenium	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/02/22 20:53	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		10/31/22 15:20	11/02/22 20:53	1
Thallium	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/02/22 20:53	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		10/31/22 15:20	11/02/22 20:53	1

Lab Sample ID: LCS 180-416775/2-A
Matrix: Water
Analysis Batch: 417094

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 416775

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	1.10		mg/L		110	80 - 120
Arsenic, Dissolved	1.00	1.10		mg/L		110	80 - 120
Barium	1.00	1.12		mg/L		112	80 - 120
Barium, Dissolved	1.00	1.12		mg/L		112	80 - 120
Beryllium	0.500	0.564		mg/L		113	80 - 120
Beryllium, Dissolved	0.500	0.564		mg/L		113	80 - 120
Cadmium	0.500	0.578		mg/L		116	80 - 120
Cadmium, Dissolved	0.500	0.578		mg/L		116	80 - 120
Calcium	50.0	56.3		mg/L		113	80 - 120
Calcium, Dissolved	50.0	56.3		mg/L		113	80 - 120
Chromium	0.500	0.570		mg/L		114	80 - 120
Chromium, Dissolved	0.500	0.570		mg/L		114	80 - 120
Cobalt	0.500	0.558		mg/L		112	80 - 120
Cobalt, Dissolved	0.500	0.558		mg/L		112	80 - 120
Lead	0.500	0.573		mg/L		115	80 - 120
Lead, Dissolved	0.500	0.573		mg/L		115	80 - 120
Lithium	0.500	0.545		mg/L		109	80 - 120
Lithium, Dissolved	0.500	0.545		mg/L		109	80 - 120
Molybdenum	0.500	0.572		mg/L		114	80 - 120
Molybdenum, Dissolved	0.500	0.572		mg/L		114	80 - 120
Selenium	1.00	1.05		mg/L		105	80 - 120
Selenium, Dissolved	1.00	1.05		mg/L		105	80 - 120
Thallium	1.00	1.18		mg/L		118	80 - 120
Thallium, Dissolved	1.00	1.18		mg/L		118	80 - 120

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QC Sample Results

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

Job ID: 180-146725-1

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

Lab Sample ID: 180-146725-33 MS

Matrix: Water

Analysis Batch: 417094

Client Sample ID: SW-13-1'

Prep Type: Total Recoverable

Prep Batch: 416775

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier				Limit	
Arsenic	0.00054	J	1.00	1.07		mg/L		107	75 - 125	
Arsenic, Dissolved	0.00054	J	1.00	1.07		mg/L		107	75 - 125	
Barium	0.072		1.00	1.21		mg/L		114	75 - 125	
Barium, Dissolved	0.072		1.00	1.21		mg/L		114	75 - 125	
Beryllium	<0.00027		0.500	0.470		mg/L		94	75 - 125	
Beryllium, Dissolved	<0.00027		0.500	0.470		mg/L		94	75 - 125	
Cadmium	<0.00022		0.500	0.553		mg/L		111	75 - 125	
Cadmium, Dissolved	<0.00022		0.500	0.553		mg/L		111	75 - 125	
Chromium	<0.0015		0.500	0.547		mg/L		109	75 - 125	
Chromium, Dissolved	<0.0015		0.500	0.547		mg/L		109	75 - 125	
Cobalt	<0.00026		0.500	0.582		mg/L		116	75 - 125	
Cobalt, Dissolved	<0.00026		0.500	0.582		mg/L		116	75 - 125	
Lead	<0.00017		0.500	0.584		mg/L		117	75 - 125	
Lead, Dissolved	<0.00017		0.500	0.584		mg/L		117	75 - 125	
Lithium	0.024		0.500	0.498		mg/L		95	75 - 125	
Lithium, Dissolved	0.024		0.500	0.498		mg/L		95	75 - 125	
Molybdenum	0.00071	J	0.500	0.611		mg/L		122	75 - 125	
Molybdenum, Dissolved	0.00071	J	0.500	0.611		mg/L		122	75 - 125	
Selenium	<0.00074		1.00	0.981		mg/L		98	75 - 125	
Selenium, Dissolved	<0.00074		1.00	0.981		mg/L		98	75 - 125	
Thallium	<0.00047		1.00	1.22		mg/L		122	75 - 125	
Thallium, Dissolved	<0.00047		1.00	1.22		mg/L		122	75 - 125	

Lab Sample ID: 180-146725-33 MS

Matrix: Water

Analysis Batch: 417223

Client Sample ID: SW-13-1'

Prep Type: Total Recoverable

Prep Batch: 416775

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier				Limit	
Calcium	89	F1	50.0	152	F1	mg/L		127	75 - 125	
Calcium, Dissolved	89	F1	50.0	152	F1	mg/L		127	75 - 125	

Lab Sample ID: 180-146725-33 MSD

Matrix: Water

Analysis Batch: 417094

Client Sample ID: SW-13-1'

Prep Type: Total Recoverable

Prep Batch: 416775

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limit		Limit	
Arsenic	0.00054	J	1.00	1.04		mg/L		104	75 - 125	3	20	
Arsenic, Dissolved	0.00054	J	1.00	1.04		mg/L		104	75 - 125	3	20	
Barium	0.072		1.00	1.19		mg/L		111	75 - 125	2	20	
Barium, Dissolved	0.072		1.00	1.19		mg/L		111	75 - 125	2	20	
Beryllium	<0.00027		0.500	0.465		mg/L		93	75 - 125	1	20	
Beryllium, Dissolved	<0.00027		0.500	0.465		mg/L		93	75 - 125	1	20	
Cadmium	<0.00022		0.500	0.535		mg/L		107	75 - 125	3	20	
Cadmium, Dissolved	<0.00022		0.500	0.535		mg/L		107	75 - 125	3	20	
Chromium	<0.0015		0.500	0.530		mg/L		106	75 - 125	3	20	
Chromium, Dissolved	<0.0015		0.500	0.530		mg/L		106	75 - 125	3	20	
Cobalt	<0.00026		0.500	0.570		mg/L		114	75 - 125	2	20	
Cobalt, Dissolved	<0.00026		0.500	0.570		mg/L		114	75 - 125	2	20	
Lead	<0.00017		0.500	0.571		mg/L		114	75 - 125	2	20	

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QC Sample Results

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

Job ID: 180-146725-1

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

Lab Sample ID: 180-146725-33 MSD
Matrix: Water
Analysis Batch: 417094

Client Sample ID: SW-13-1'
Prep Type: Total Recoverable
Prep Batch: 416775

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		Limit
Lead, Dissolved	<0.00017		0.500	0.571		mg/L		114	75 - 125	2	20
Lithium	0.024		0.500	0.498		mg/L		95	75 - 125	0	20
Lithium, Dissolved	0.024		0.500	0.498		mg/L		95	75 - 125	0	20
Molybdenum	0.00071	J	0.500	0.598		mg/L		120	75 - 125	2	20
Molybdenum, Dissolved	0.00071	J	0.500	0.598		mg/L		120	75 - 125	2	20
Selenium	<0.00074		1.00	0.960		mg/L		96	75 - 125	2	20
Selenium, Dissolved	<0.00074		1.00	0.960		mg/L		96	75 - 125	2	20
Thallium	<0.00047		1.00	1.19		mg/L		119	75 - 125	2	20
Thallium, Dissolved	<0.00047		1.00	1.19		mg/L		119	75 - 125	2	20

Lab Sample ID: 180-146725-33 MSD
Matrix: Water
Analysis Batch: 417223

Client Sample ID: SW-13-1'
Prep Type: Total Recoverable
Prep Batch: 416775

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		Limit
Calcium	89	F1	50.0	147		mg/L		116	75 - 125	4	20
Calcium, Dissolved	89	F1	50.0	147		mg/L		116	75 - 125	4	20

Lab Sample ID: MB 180-416893/1-A
Matrix: Water
Analysis Batch: 417114

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 416893

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00051		0.0020	0.00051	mg/L		11/01/22 14:05	11/02/22 14:34	1
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		11/01/22 14:05	11/02/22 14:34	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		11/01/22 14:05	11/02/22 14:34	1
Arsenic, Dissolved	<0.00028		0.0010	0.00028	mg/L		11/01/22 14:05	11/02/22 14:34	1
Barium	<0.0031		0.010	0.0031	mg/L		11/01/22 14:05	11/02/22 14:34	1
Barium, Dissolved	<0.0031		0.010	0.0031	mg/L		11/01/22 14:05	11/02/22 14:34	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		11/01/22 14:05	11/02/22 14:34	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		11/01/22 14:05	11/02/22 14:34	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		11/01/22 14:05	11/02/22 14:34	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		11/01/22 14:05	11/02/22 14:34	1
Calcium	<0.13		0.50	0.13	mg/L		11/01/22 14:05	11/02/22 14:34	1
Calcium, Dissolved	<0.13		0.50	0.13	mg/L		11/01/22 14:05	11/02/22 14:34	1
Chromium	<0.0015		0.0020	0.0015	mg/L		11/01/22 14:05	11/02/22 14:34	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		11/01/22 14:05	11/02/22 14:34	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		11/01/22 14:05	11/02/22 14:34	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		11/01/22 14:05	11/02/22 14:34	1
Lead	<0.00017		0.0010	0.00017	mg/L		11/01/22 14:05	11/02/22 14:34	1
Lead, Dissolved	<0.00017		0.0010	0.00017	mg/L		11/01/22 14:05	11/02/22 14:34	1
Lithium	<0.00083		0.0050	0.00083	mg/L		11/01/22 14:05	11/02/22 14:34	1
Lithium, Dissolved	<0.00083		0.0050	0.00083	mg/L		11/01/22 14:05	11/02/22 14:34	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		11/01/22 14:05	11/02/22 14:34	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		11/01/22 14:05	11/02/22 14:34	1
Selenium	<0.00074		0.0050	0.00074	mg/L		11/01/22 14:05	11/02/22 14:34	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		11/01/22 14:05	11/02/22 14:34	1
Thallium	<0.00047		0.0010	0.00047	mg/L		11/01/22 14:05	11/02/22 14:34	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		11/01/22 14:05	11/02/22 14:34	1

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QC Sample Results

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

Job ID: 180-146725-1

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

Lab Sample ID: MB 180-416893/1-A
Matrix: Water
Analysis Batch: 417224

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 416893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		11/01/22 14:05	11/03/22 14:31	1

Lab Sample ID: MB 180-416893/1-A
Matrix: Water
Analysis Batch: 420164

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 416893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	<0.060		0.080	0.060	mg/L		11/01/22 14:05	12/07/22 14:14	1

Lab Sample ID: LCS 180-416893/2-A
Matrix: Water
Analysis Batch: 417114

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 416893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.269		mg/L		107	80 - 120
Antimony, Dissolved	0.250	0.269		mg/L		107	80 - 120
Arsenic	1.00	0.999		mg/L		100	80 - 120
Arsenic, Dissolved	1.00	0.999		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	0.497		mg/L		99	80 - 120
Beryllium, Dissolved	0.500	0.497		mg/L		99	80 - 120
Cadmium	0.500	0.517		mg/L		103	80 - 120
Cadmium, Dissolved	0.500	0.517		mg/L		103	80 - 120
Calcium	25.0	28.3		mg/L		113	80 - 120
Calcium, Dissolved	25.0	28.3		mg/L		113	80 - 120
Chromium	0.500	0.508		mg/L		102	80 - 120
Chromium, Dissolved	0.500	0.508		mg/L		102	80 - 120
Cobalt	0.500	0.504		mg/L		101	80 - 120
Cobalt, Dissolved	0.500	0.504		mg/L		101	80 - 120
Lead	0.500	0.516		mg/L		103	80 - 120
Lead, Dissolved	0.500	0.516		mg/L		103	80 - 120
Lithium	0.500	0.506		mg/L		101	80 - 120
Lithium, Dissolved	0.500	0.506		mg/L		101	80 - 120
Molybdenum	0.500	0.519		mg/L		104	80 - 120
Molybdenum, Dissolved	0.500	0.519		mg/L		104	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	1.04		mg/L		104	80 - 120
Thallium, Dissolved	1.00	1.04		mg/L		104	80 - 120

Lab Sample ID: LCS 180-416893/2-A
Matrix: Water
Analysis Batch: 417224

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 416893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.23		mg/L		99	80 - 120

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QC Sample Results

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

Job ID: 180-146725-1

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

Lab Sample ID: LCS 180-416893/2-A
Matrix: Water
Analysis Batch: 420164

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 416893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron, Dissolved	1.25	1.23		mg/L		98	80 - 120

Lab Sample ID: MB 180-416987/1-A
Matrix: Water
Analysis Batch: 417366

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 416987

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		11/02/22 10:45	11/04/22 19:24	1
Antimony, Dissolved	<0.00051		0.0020	0.00051	mg/L		11/02/22 10:45	11/04/22 19:24	1
Calcium	<0.13		0.50	0.13	mg/L		11/02/22 10:45	11/04/22 19:24	1
Calcium, Dissolved	<0.13		0.50	0.13	mg/L		11/02/22 10:45	11/04/22 19:24	1

Lab Sample ID: MB 180-416987/1-A
Matrix: Water
Analysis Batch: 417508

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 416987

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		11/02/22 10:45	11/05/22 16:00	1
Boron, Dissolved	<0.060		0.080	0.060	mg/L		11/02/22 10:45	11/05/22 16:00	1

Lab Sample ID: LCS 180-416987/2-A
Matrix: Water
Analysis Batch: 417366

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 416987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.266		mg/L		107	80 - 120
Antimony, Dissolved	0.250	0.266		mg/L		107	80 - 120
Calcium	25.0	25.7		mg/L		103	80 - 120
Calcium, Dissolved	25.0	25.7		mg/L		103	80 - 120

Lab Sample ID: LCS 180-416987/2-A
Matrix: Water
Analysis Batch: 417508

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 416987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.31		mg/L		105	80 - 120
Boron, Dissolved	1.25	1.31		mg/L		105	80 - 120

Lab Sample ID: MB 180-417140/1-A
Matrix: Water
Analysis Batch: 417366

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 417140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.000751	J	0.0020	0.00051	mg/L		11/03/22 10:25	11/04/22 10:21	1
Antimony, Dissolved	0.000751	J	0.0020	0.00051	mg/L		11/03/22 10:25	11/04/22 10:21	1
Boron	<0.060		0.080	0.060	mg/L		11/03/22 10:25	11/04/22 10:21	1
Boron, Dissolved	<0.060		0.080	0.060	mg/L		11/03/22 10:25	11/04/22 10:21	1

QC Sample Results

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

Job ID: 180-146725-1

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

Lab Sample ID: LCS 180-417140/2-A
Matrix: Water
Analysis Batch: 417366

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 417140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Antimony	0.250	0.267		mg/L		107	80 - 120	
Antimony, Dissolved	0.250	0.267		mg/L		107	80 - 120	
Boron	1.25	1.18		mg/L		95	80 - 120	
Boron, Dissolved	1.25	1.18		mg/L		95	80 - 120	

Lab Sample ID: 180-146725-33 MS
Matrix: Water
Analysis Batch: 417366

Client Sample ID: SW-13-1'
Prep Type: Total Recoverable
Prep Batch: 417140

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Antimony	0.00054	J B	0.250	0.266		mg/L		106	75 - 125	
Antimony, Dissolved	0.00054	J B	0.250	0.266		mg/L		106	75 - 125	
Boron	0.74		1.25	1.81		mg/L		86	75 - 125	
Boron, Dissolved	0.74		1.25	1.81		mg/L		86	75 - 125	

Lab Sample ID: 180-146725-33 MSD
Matrix: Water
Analysis Batch: 417366

Client Sample ID: SW-13-1'
Prep Type: Total Recoverable
Prep Batch: 417140

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	
									Limits		RPD	Limit
Antimony	0.00054	J B	0.250	0.269		mg/L		107	75 - 125	1	20	
Antimony, Dissolved	0.00054	J B	0.250	0.269		mg/L		107	75 - 125	1	20	
Boron	0.74		1.25	1.83		mg/L		88	75 - 125	1	20	
Boron, Dissolved	0.74		1.25	1.83		mg/L		88	75 - 125	1	20	

Lab Sample ID: 180-146725-14 MS
Matrix: Water
Analysis Batch: 416939

Client Sample ID: SW-4-1.5'
Prep Type: Dissolved
Prep Batch: 416774

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Arsenic	0.0010		1.00	1.22		mg/L		122	75 - 125	
Arsenic, Dissolved	0.0010		1.00	1.22		mg/L		122	75 - 125	
Barium	0.063		1.00	1.10		mg/L		104	75 - 125	
Barium, Dissolved	0.063		1.00	1.10		mg/L		104	75 - 125	
Beryllium	<0.00027		0.500	0.558		mg/L		112	75 - 125	
Beryllium, Dissolved	<0.00027		0.500	0.558		mg/L		112	75 - 125	
Cadmium	<0.00022		0.500	0.541		mg/L		108	75 - 125	
Cadmium, Dissolved	<0.00022		0.500	0.541		mg/L		108	75 - 125	
Chromium	<0.0015		0.500	0.544		mg/L		109	75 - 125	
Chromium, Dissolved	<0.0015		0.500	0.544		mg/L		109	75 - 125	
Cobalt	<0.00026		0.500	0.583		mg/L		117	75 - 125	
Cobalt, Dissolved	<0.00026		0.500	0.583		mg/L		117	75 - 125	
Lead	<0.00017		0.500	0.585		mg/L		117	75 - 125	
Lead, Dissolved	<0.00017		0.500	0.585		mg/L		117	75 - 125	
Lithium	0.037		0.500	0.536		mg/L		100	75 - 125	
Lithium, Dissolved	0.037		0.500	0.536		mg/L		100	75 - 125	
Molybdenum	0.0023	J	0.500	0.618		mg/L		123	75 - 125	
Molybdenum, Dissolved	0.0023	J	0.500	0.618		mg/L		123	75 - 125	
Selenium	<0.00074		1.00	1.03		mg/L		103	75 - 125	

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QC Sample Results

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

Job ID: 180-146725-1

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

Lab Sample ID: 180-146725-14 MS
Matrix: Water
Analysis Batch: 416939

Client Sample ID: SW-4-1.5'
Prep Type: Dissolved
Prep Batch: 416774

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium, Dissolved	<0.00074		1.00	1.03		mg/L		103	75 - 125
Thallium	<0.00047		1.00	1.20		mg/L		120	75 - 125
Thallium, Dissolved	<0.00047		1.00	1.20		mg/L		120	75 - 125

Lab Sample ID: 180-146725-14 MSD
Matrix: Water
Analysis Batch: 416939

Client Sample ID: SW-4-1.5'
Prep Type: Dissolved
Prep Batch: 416774

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.0010		1.00	1.19		mg/L		119	75 - 125	2	20
Arsenic, Dissolved	0.0010		1.00	1.19		mg/L		119	75 - 125	2	20
Barium	0.063		1.00	1.06		mg/L		100	75 - 125	4	20
Barium, Dissolved	0.063		1.00	1.06		mg/L		100	75 - 125	4	20
Beryllium	<0.00027		0.500	0.562		mg/L		112	75 - 125	1	20
Beryllium, Dissolved	<0.00027		0.500	0.562		mg/L		112	75 - 125	1	20
Cadmium	<0.00022		0.500	0.529		mg/L		106	75 - 125	2	20
Cadmium, Dissolved	<0.00022		0.500	0.529		mg/L		106	75 - 125	2	20
Chromium	<0.0015		0.500	0.525		mg/L		105	75 - 125	4	20
Chromium, Dissolved	<0.0015		0.500	0.525		mg/L		105	75 - 125	4	20
Cobalt	<0.00026		0.500	0.576		mg/L		115	75 - 125	1	20
Cobalt, Dissolved	<0.00026		0.500	0.576		mg/L		115	75 - 125	1	20
Lead	<0.00017		0.500	0.567		mg/L		113	75 - 125	3	20
Lead, Dissolved	<0.00017		0.500	0.567		mg/L		113	75 - 125	3	20
Lithium	0.037		0.500	0.518		mg/L		96	75 - 125	3	20
Lithium, Dissolved	0.037		0.500	0.518		mg/L		96	75 - 125	3	20
Molybdenum	0.0023	J	0.500	0.606		mg/L		121	75 - 125	2	20
Molybdenum, Dissolved	0.0023	J	0.500	0.606		mg/L		121	75 - 125	2	20
Selenium	<0.00074		1.00	1.01		mg/L		101	75 - 125	2	20
Selenium, Dissolved	<0.00074		1.00	1.01		mg/L		101	75 - 125	2	20
Thallium	<0.00047		1.00	1.17		mg/L		117	75 - 125	2	20
Thallium, Dissolved	<0.00047		1.00	1.17		mg/L		117	75 - 125	2	20

Lab Sample ID: 180-146725-14 MS
Matrix: Water
Analysis Batch: 417366

Client Sample ID: SW-4-1.5'
Prep Type: Dissolved
Prep Batch: 416987

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00051		0.250	0.274		mg/L		109	75 - 125
Antimony, Dissolved	<0.00051		0.250	0.274		mg/L		109	75 - 125
Calcium	110		25.0	143	4	mg/L		115	75 - 125
Calcium, Dissolved	110		25.0	143	4	mg/L		115	75 - 125

Lab Sample ID: 180-146725-14 MS
Matrix: Water
Analysis Batch: 417508

Client Sample ID: SW-4-1.5'
Prep Type: Dissolved
Prep Batch: 416987

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.2		1.25	2.58		mg/L		110	75 - 125
Boron, Dissolved	1.2		1.25	2.58		mg/L		110	75 - 125

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QC Sample Results

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

Job ID: 180-146725-1

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

Lab Sample ID: 180-146725-14 MSD
Matrix: Water
Analysis Batch: 417366

Client Sample ID: SW-4-1.5'
Prep Type: Dissolved
Prep Batch: 416987

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Antimony	<0.00051		0.250	0.268		mg/L		107	75 - 125	2	20
Antimony, Dissolved	<0.00051		0.250	0.268		mg/L		107	75 - 125	2	20
Calcium	110		25.0	140	4	mg/L		103	75 - 125	2	20
Calcium, Dissolved	110		25.0	140	4	mg/L		103	75 - 125	2	20

Lab Sample ID: 180-146725-14 MSD
Matrix: Water
Analysis Batch: 417508

Client Sample ID: SW-4-1.5'
Prep Type: Dissolved
Prep Batch: 416987

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Boron	1.2		1.25	2.56		mg/L		109	75 - 125	1	20
Boron, Dissolved	1.2		1.25	2.56		mg/L		109	75 - 125	1	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-416608/1-A
Matrix: Water
Analysis Batch: 417081

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 416608

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 14:32	1
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 14:32	1

Lab Sample ID: LCS 180-416608/2-A
Matrix: Water
Analysis Batch: 417081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 416608

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
							Added
Mercury	0.00250	0.00249		mg/L		100	80 - 120
Mercury, Dissolved	0.00250	0.00249		mg/L		100	80 - 120

Lab Sample ID: 180-146725-1 MS
Matrix: Water
Analysis Batch: 417081

Client Sample ID: SW-1-1'
Prep Type: Total/NA
Prep Batch: 416608

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				Limits
Mercury	<0.00013		0.00100	0.000884		mg/L		88	75 - 125
Mercury, Dissolved	<0.00013		0.00100	0.000884		mg/L		88	75 - 125

Lab Sample ID: 180-146725-1 MSD
Matrix: Water
Analysis Batch: 417081

Client Sample ID: SW-1-1'
Prep Type: Total/NA
Prep Batch: 416608

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Mercury	<0.00013		0.00100	0.000902		mg/L		90	75 - 125	2	20
Mercury, Dissolved	<0.00013		0.00100	0.000902		mg/L		90	75 - 125	2	20

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QC Sample Results

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

Job ID: 180-146725-1

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

Lab Sample ID: MB 180-416609/1-A
Matrix: Water
Analysis Batch: 417081

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 416609

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.13		0.20	0.13	ug/L		10/31/22 07:00	11/02/22 15:02	1
Mercury, Dissolved	<0.13		0.20	0.13	ug/L		10/31/22 07:00	11/02/22 15:02	1

Lab Sample ID: LCS 180-416609/2-A
Matrix: Water
Analysis Batch: 417081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 416609

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury, Dissolved	2.50	2.54		ug/L		102	80 - 120

Lab Sample ID: MB 180-416610/1-A
Matrix: Water
Analysis Batch: 417081

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 416610

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 15:33	1
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		10/31/22 07:00	11/02/22 15:33	1

Lab Sample ID: LCS 180-416610/2-A
Matrix: Water
Analysis Batch: 417081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 416610

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury, Dissolved	0.00250	0.00262		mg/L		105	80 - 120

Lab Sample ID: 180-146725-39 MS
Matrix: Water
Analysis Batch: 417081

Client Sample ID: SW-16-1'.5'
Prep Type: Total/NA
Prep Batch: 416610

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury, Dissolved	<0.00013		0.00100	0.000979			98	75 - 125	

Lab Sample ID: 180-146725-39 MSD
Matrix: Water
Analysis Batch: 417081

Client Sample ID: SW-16-1'.5'
Prep Type: Total/NA
Prep Batch: 416610

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury, Dissolved	<0.00013		0.00100	0.000959			96	75 - 125	2	20	

Lab Sample ID: 180-146725-20 MS
Matrix: Water
Analysis Batch: 417081

Client Sample ID: SW-6-1'
Prep Type: Dissolved
Prep Batch: 416609

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury, Dissolved	<0.13		1.00	0.859			86	75 - 125	

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QC Sample Results

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

Job ID: 180-146725-1

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: 180-146725-20 MSD
Matrix: Water
Analysis Batch: 417081

Client Sample ID: SW-6-1'
Prep Type: Dissolved
Prep Batch: 416609

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limit	
Mercury	<0.13		1.00	0.885		ug/L		89	75 - 125	3	20
Mercury, Dissolved	<0.13		1.00	0.885		ug/L		89	75 - 125	3	20

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

Lab Sample ID: MB 180-416192/1
Matrix: Water
Analysis Batch: 416192

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	<10		10	10	mg/L			10/25/22 17:43	1
Total Dissolved Solids Field Filtered	<10		10	10	mg/L			10/25/22 17:43	1

Lab Sample ID: LCS 180-416192/2
Matrix: Water
Analysis Batch: 416192

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Total Dissolved Solids	388	362		mg/L		93	85 - 115
Total Dissolved Solids Field Filtered	388	362		mg/L		93	85 - 115

Lab Sample ID: MB 180-416245/1
Matrix: Water
Analysis Batch: 416245

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	<10		10	10	mg/L			10/26/22 08:57	1
Total Dissolved Solids Field Filtered	<10		10	10	mg/L			10/26/22 08:57	1

Lab Sample ID: LCS 180-416245/2
Matrix: Water
Analysis Batch: 416245

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Total Dissolved Solids	388	364		mg/L		94	85 - 115
Total Dissolved Solids Field Filtered	388	364		mg/L		94	85 - 115

Lab Sample ID: MB 180-416307/1
Matrix: Water
Analysis Batch: 416307

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	<10		10	10	mg/L			10/26/22 13:33	1
Total Dissolved Solids Field Filtered	<10		10	10	mg/L			10/26/22 13:33	1

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QC Sample Results

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

Job ID: 180-146725-1

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

Lab Sample ID: LCS 180-416307/2
Matrix: Water
Analysis Batch: 416307

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	388	372		mg/L		96	85 - 115
Total Dissolved Solids Field Filtered	388	372		mg/L		96	85 - 115

Lab Sample ID: 180-146725-19 DU
Matrix: Water
Analysis Batch: 416307

Client Sample ID: SW-6-1'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	8100		8170		mg/L		0.7	10
Total Dissolved Solids Field Filtered	8100		8170		mg/L		0.7	10

Lab Sample ID: MB 180-416326/1
Matrix: Water
Analysis Batch: 416326

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			10/26/22 14:40	1
Total Dissolved Solids Field Filtered	<10		10	10	mg/L			10/26/22 14:40	1

Lab Sample ID: LCS 180-416326/2
Matrix: Water
Analysis Batch: 416326

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	388	370		mg/L		95	85 - 115
Total Dissolved Solids Field Filtered	388	370		mg/L		95	85 - 115

Lab Sample ID: 180-146725-13 DU
Matrix: Water
Analysis Batch: 416326

Client Sample ID: SW-4-1.5'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	8900		8810		mg/L		1	10
Total Dissolved Solids Field Filtered	8900		8810		mg/L		1	10

Lab Sample ID: MB 180-416426/1
Matrix: Water
Analysis Batch: 416426

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			10/27/22 10:45	1
Total Dissolved Solids Field Filtered	<10		10	10	mg/L			10/27/22 10:45	1

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QC Sample Results

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

Job ID: 180-146725-1

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

Lab Sample ID: LCS 180-416426/2
Matrix: Water
Analysis Batch: 416426

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	388	382		mg/L		98	85 - 115
Total Dissolved Solids Field Filtered	388	382		mg/L		98	85 - 115

Lab Sample ID: 180-146725-43 DU
Matrix: Water
Analysis Batch: 416426

Client Sample ID: DUP-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	5700		5340		mg/L		6	10
Total Dissolved Solids Field Filtered	5700		5340		mg/L		6	10

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

QC Association Summary

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

Job ID: 180-146725-1

HPLC/IC

Analysis Batch: 416135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-1	SW-1-1'	Total/NA	Water	300.0	
180-146725-1	SW-1-1'	Total/NA	Water	300.0	
180-146725-2	SW-1-1'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-2	SW-1-1'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-3	SW-1-7'	Total/NA	Water	300.0	
180-146725-3	SW-1-7'	Total/NA	Water	300.0	
180-146725-4	SW-1-7'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-4	SW-1-7'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-5	SW-2-1'	Total/NA	Water	300.0	
180-146725-5	SW-2-1'	Total/NA	Water	300.0	
180-146725-6	SW-2-1'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-6	SW-2-1'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-7	SW-2-7'	Total/NA	Water	300.0	
180-146725-7	SW-2-7'	Total/NA	Water	300.0	
180-146725-8	SW-2-7'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-8	SW-2-7'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-9	SW-3-1'	Total/NA	Water	300.0	
180-146725-9	SW-3-1'	Total/NA	Water	300.0	
180-146725-14	SW-4-1.5'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-14	SW-4-1.5'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-15	SW-5-1'	Total/NA	Water	300.0	
180-146725-15	SW-5-1'	Total/NA	Water	300.0	
180-146725-16	SW-5-1'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-16	SW-5-1'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-17	SW-5-13'	Total/NA	Water	300.0	
180-146725-17	SW-5-13'	Total/NA	Water	300.0	
180-146725-18	SW-5-13'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-18	SW-5-13'	Dissolved	Water	EPA 300.0 R2.1	
MB 180-416135/54	Method Blank	Total/NA	Water	300.0	
MB 180-416135/6	Method Blank	Total/NA	Water	300.0	
LCS 180-416135/55	Lab Control Sample	Total/NA	Water	300.0	
LCS 180-416135/7	Lab Control Sample	Total/NA	Water	300.0	
180-146725-1 MS	SW-1-1'	Total/NA	Water	300.0	
180-146725-1 MS	SW-1-1'	Total/NA	Water	300.0	
180-146725-1 MSD	SW-1-1'	Total/NA	Water	300.0	
180-146725-1 MSD	SW-1-1'	Total/NA	Water	300.0	

Analysis Batch: 416260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-25	SW-9-4'	Total/NA	Water	300.0	
180-146725-25	SW-9-4'	Total/NA	Water	300.0	
180-146725-26	SW-9-4'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-26	SW-9-4'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-27	SW-10-2'	Total/NA	Water	300.0	
180-146725-27	SW-10-2'	Total/NA	Water	300.0	
180-146725-28	SW-10-2'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-28	SW-10-2'	Dissolved	Water	EPA 300.0 R2.1	
MB 180-416260/22	Method Blank	Total/NA	Water	300.0	
LCS 180-416260/23	Lab Control Sample	Total/NA	Water	300.0	

QC Association Summary

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

Job ID: 180-146725-1

HPLC/IC

Analysis Batch: 416297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-10	SW-3-1'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-10	SW-3-1'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-11	SW-3-4'	Total/NA	Water	300.0	
180-146725-11	SW-3-4'	Total/NA	Water	300.0	
180-146725-12	SW-3-4'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-12	SW-3-4'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-13	SW-4-1.5'	Total/NA	Water	300.0	
180-146725-13	SW-4-1.5'	Total/NA	Water	300.0	
180-146725-21	SW-6-9'.5'	Total/NA	Water	300.0	
180-146725-21	SW-6-9'.5'	Total/NA	Water	300.0	
180-146725-22	SW-6-9'.5'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-22	SW-6-9'.5'	Dissolved	Water	EPA 300.0 R2.1	
MB 180-416297/6	Method Blank	Total/NA	Water	300.0	
LCS 180-416297/7	Lab Control Sample	Total/NA	Water	300.0	
180-146725-10 MS	SW-3-1'	Dissolved	Water	300.0	
180-146725-10 MSD	SW-3-1'	Dissolved	Water	300.0	

Analysis Batch: 416391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-19	SW-6-1'	Total/NA	Water	300.0	
180-146725-19	SW-6-1'	Total/NA	Water	300.0	
180-146725-29	SW-11-1'	Total/NA	Water	300.0	
180-146725-29	SW-11-1'	Total/NA	Water	300.0	
180-146725-30	SW-11-1'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-30	SW-11-1'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-31	SW-12-1'	Total/NA	Water	300.0	
180-146725-31	SW-12-1'	Total/NA	Water	300.0	
180-146725-32	SW-12-1'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-32	SW-12-1'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-33	SW-13-1'	Total/NA	Water	300.0	
180-146725-33	SW-13-1'	Total/NA	Water	300.0	
180-146725-34	SW-13-1'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-34	SW-13-1'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-35	SW-14-1'.5'	Total/NA	Water	300.0	
180-146725-35	SW-14-1'.5'	Total/NA	Water	300.0	
180-146725-36	SW-14-1'.5'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-36	SW-14-1'.5'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-37	SW-15-1'.5'	Total/NA	Water	300.0	
180-146725-37	SW-15-1'.5'	Total/NA	Water	300.0	
180-146725-39	SW-16-1'.5'	Total/NA	Water	300.0	
180-146725-39	SW-16-1'.5'	Total/NA	Water	300.0	
180-146725-41	DUP-01	Total/NA	Water	300.0	
180-146725-41	DUP-01	Total/NA	Water	300.0	
180-146725-42	DUP-01	Dissolved	Water	EPA 300.0 R2.1	
180-146725-42	DUP-01	Dissolved	Water	EPA 300.0 R2.1	
180-146725-43	DUP-02	Total/NA	Water	300.0	
180-146725-43	DUP-02	Total/NA	Water	300.0	
180-146725-44	DUP-02	Dissolved	Water	EPA 300.0 R2.1	
180-146725-44	DUP-02	Dissolved	Water	EPA 300.0 R2.1	
MB 180-416391/6	Method Blank	Total/NA	Water	300.0	
LCS 180-416391/7	Lab Control Sample	Total/NA	Water	300.0	

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QC Association Summary

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

Job ID: 180-146725-1

HPLC/IC

Analysis Batch: 416393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-38	SW-15-1'.5'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-38	SW-15-1'.5'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-40	SW-16-1'.5'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-40	SW-16-1'.5'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-45	DUP-03	Total/NA	Water	300.0	
180-146725-45	DUP-03	Total/NA	Water	300.0	
180-146725-46	EB-01	Total/NA	Water	300.0	
180-146725-47	FB-01	Total/NA	Water	300.0	
180-146725-48	EB-02	Total/NA	Water	300.0	
180-146725-49	FB-02	Total/NA	Water	300.0	
180-146725-50	DUP-03	Dissolved	Water	EPA 300.0 R2.1	
180-146725-50	DUP-03	Dissolved	Water	EPA 300.0 R2.1	
MB 180-416393/6	Method Blank	Total/NA	Water	300.0	
LCS 180-416393/7	Lab Control Sample	Total/NA	Water	300.0	
180-146725-48 MS	EB-02	Total/NA	Water	300.0	
180-146725-48 MSD	EB-02	Total/NA	Water	300.0	

Analysis Batch: 416560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-46	EB-01	Total/NA	Water	300.0	
180-146725-47	FB-01	Total/NA	Water	300.0	
180-146725-48	EB-02	Total/NA	Water	300.0	
180-146725-49	FB-02	Total/NA	Water	300.0	
MB 180-416560/6	Method Blank	Total/NA	Water	300.0	
LCS 180-416560/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 416571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-20	SW-6-1'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-20	SW-6-1'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-23	SW-9-1'	Total/NA	Water	300.0	
180-146725-23	SW-9-1'	Total/NA	Water	300.0	
MB 180-416571/29	Method Blank	Total/NA	Water	300.0	
LCS 180-416571/30	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 416637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-24	SW-9-1'	Dissolved	Water	EPA 300.0 R2.1	
180-146725-24	SW-9-1'	Dissolved	Water	EPA 300.0 R2.1	
MB 180-416637/37	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-416637/38	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 416864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-24	SW-9-1'	Dissolved	Water	EPA 300.0 R2.1	
MB 180-416864/28	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-416864/29	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

QC Association Summary

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

Job ID: 180-146725-1

Metals

Prep Batch: 416608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-1	SW-1-1'	Total/NA	Water	7470A	
180-146725-2	SW-1-1'	Dissolved	Water	7470A	
180-146725-3	SW-1-7'	Total/NA	Water	7470A	
180-146725-4	SW-1-7'	Dissolved	Water	7470A	
180-146725-5	SW-2-1'	Total/NA	Water	7470A	
180-146725-6	SW-2-1'	Dissolved	Water	7470A	
180-146725-7	SW-2-7'	Total/NA	Water	7470A	
180-146725-8	SW-2-7'	Dissolved	Water	7470A	
180-146725-9	SW-3-1'	Total/NA	Water	7470A	
180-146725-10	SW-3-1'	Dissolved	Water	7470A	
180-146725-11	SW-3-4'	Total/NA	Water	7470A	
180-146725-12	SW-3-4'	Dissolved	Water	7470A	
180-146725-13	SW-4-1.5'	Total/NA	Water	7470A	
180-146725-14	SW-4-1.5'	Dissolved	Water	7470A	
180-146725-15	SW-5-1'	Total/NA	Water	7470A	
180-146725-16	SW-5-1'	Dissolved	Water	7470A	
180-146725-17	SW-5-13'	Total/NA	Water	7470A	
180-146725-18	SW-5-13'	Dissolved	Water	7470A	
180-146725-19	SW-6-1'	Total/NA	Water	7470A	
MB 180-416608/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-416608/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-146725-1 MS	SW-1-1'	Total/NA	Water	7470A	
180-146725-1 MSD	SW-1-1'	Total/NA	Water	7470A	

Prep Batch: 416609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-20	SW-6-1'	Dissolved	Water	7470A	
180-146725-21	SW-6-9'.5'	Total/NA	Water	7470A	
180-146725-22	SW-6-9'.5'	Dissolved	Water	7470A	
180-146725-23	SW-9-1'	Total/NA	Water	7470A	
180-146725-24	SW-9-1'	Dissolved	Water	7470A	
180-146725-25	SW-9-4'	Total/NA	Water	7470A	
180-146725-26	SW-9-4'	Dissolved	Water	7470A	
180-146725-27	SW-10-2'	Total/NA	Water	7470A	
180-146725-28	SW-10-2'	Dissolved	Water	7470A	
180-146725-29	SW-11-1'	Total/NA	Water	7470A	
180-146725-30	SW-11-1'	Dissolved	Water	7470A	
180-146725-31	SW-12-1'	Total/NA	Water	7470A	
180-146725-32	SW-12-1'	Dissolved	Water	7470A	
180-146725-33	SW-13-1'	Total/NA	Water	7470A	
180-146725-34	SW-13-1'	Dissolved	Water	7470A	
180-146725-35	SW-14-1'.5'	Total/NA	Water	7470A	
180-146725-36	SW-14-1'.5'	Dissolved	Water	7470A	
180-146725-37	SW-15-1'.5'	Total/NA	Water	7470A	
180-146725-38	SW-15-1'.5'	Dissolved	Water	7470A	
MB 180-416609/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-416609/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-146725-20 MS	SW-6-1'	Dissolved	Water	7470A	
180-146725-20 MSD	SW-6-1'	Dissolved	Water	7470A	

QC Association Summary

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

Job ID: 180-146725-1

Metals

Prep Batch: 416610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-39	SW-16-1'.5'	Total/NA	Water	7470A	
180-146725-40	SW-16-1'.5'	Dissolved	Water	7470A	
180-146725-41	DUP-01	Total/NA	Water	7470A	
180-146725-42	DUP-01	Dissolved	Water	7470A	
180-146725-43	DUP-02	Total/NA	Water	7470A	
180-146725-44	DUP-02	Dissolved	Water	7470A	
180-146725-45	DUP-03	Total/NA	Water	7470A	
180-146725-46	EB-01	Total/NA	Water	7470A	
180-146725-47	FB-01	Total/NA	Water	7470A	
180-146725-48	EB-02	Total/NA	Water	7470A	
180-146725-49	FB-02	Total/NA	Water	7470A	
180-146725-50	DUP-03	Dissolved	Water	7470A	
MB 180-416610/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-416610/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-146725-39 MS	SW-16-1'.5'	Total/NA	Water	7470A	
180-146725-39 MSD	SW-16-1'.5'	Total/NA	Water	7470A	

Prep Batch: 416774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-6	SW-2-1'	Dissolved	Water	3005A	
180-146725-7	SW-2-7'	Total Recoverable	Water	3005A	
180-146725-8	SW-2-7'	Dissolved	Water	3005A	
180-146725-9	SW-3-1'	Total Recoverable	Water	3005A	
180-146725-10	SW-3-1'	Dissolved	Water	3005A	
180-146725-11	SW-3-4'	Total Recoverable	Water	3005A	
180-146725-12	SW-3-4'	Dissolved	Water	3005A	
180-146725-13	SW-4-1.5'	Total Recoverable	Water	3005A	
180-146725-14	SW-4-1.5'	Dissolved	Water	3005A	
180-146725-15	SW-5-1'	Total Recoverable	Water	3005A	
180-146725-16	SW-5-1'	Dissolved	Water	3005A	
180-146725-17	SW-5-13'	Total Recoverable	Water	3005A	
180-146725-18	SW-5-13'	Dissolved	Water	3005A	
180-146725-19	SW-6-1'	Total Recoverable	Water	3005A	
180-146725-20	SW-6-1'	Dissolved	Water	3005A	
180-146725-21	SW-6-9'.5'	Total Recoverable	Water	3005A	
180-146725-22	SW-6-9'.5'	Dissolved	Water	3005A	
180-146725-23	SW-9-1'	Total Recoverable	Water	3005A	
180-146725-24	SW-9-1'	Dissolved	Water	3005A	
180-146725-25	SW-9-4'	Total Recoverable	Water	3005A	
MB 180-416774/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-416774/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-146725-14 MS	SW-4-1.5'	Dissolved	Water	3005A	
180-146725-14 MSD	SW-4-1.5'	Dissolved	Water	3005A	

Prep Batch: 416775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-26	SW-9-4'	Dissolved	Water	3005A	
180-146725-27	SW-10-2'	Total Recoverable	Water	3005A	
180-146725-28	SW-10-2'	Dissolved	Water	3005A	
180-146725-29	SW-11-1'	Total Recoverable	Water	3005A	
180-146725-30	SW-11-1'	Dissolved	Water	3005A	

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QC Association Summary

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

Job ID: 180-146725-1

Metals (Continued)

Prep Batch: 416775 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-31	SW-12-1'	Total Recoverable	Water	3005A	
180-146725-32	SW-12-1'	Dissolved	Water	3005A	
180-146725-33	SW-13-1'	Total Recoverable	Water	3005A	
180-146725-34	SW-13-1'	Dissolved	Water	3005A	
180-146725-35	SW-14-1'.5'	Total Recoverable	Water	3005A	
180-146725-36	SW-14-1'.5'	Dissolved	Water	3005A	
180-146725-37	SW-15-1'.5'	Total Recoverable	Water	3005A	
180-146725-38	SW-15-1'.5'	Dissolved	Water	3005A	
180-146725-39	SW-16-1'.5'	Total Recoverable	Water	3005A	
180-146725-40	SW-16-1'.5'	Dissolved	Water	3005A	
180-146725-41	DUP-01	Total Recoverable	Water	3005A	
180-146725-42	DUP-01	Dissolved	Water	3005A	
180-146725-43	DUP-02	Total Recoverable	Water	3005A	
180-146725-44	DUP-02	Dissolved	Water	3005A	
180-146725-45	DUP-03	Total Recoverable	Water	3005A	
MB 180-416775/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-416775/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-146725-33 MS	SW-13-1'	Total Recoverable	Water	3005A	
180-146725-33 MSD	SW-13-1'	Total Recoverable	Water	3005A	

Prep Batch: 416893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-1	SW-1-1'	Total Recoverable	Water	3005A	
180-146725-2	SW-1-1'	Dissolved	Water	3005A	
180-146725-3	SW-1-7'	Total Recoverable	Water	3005A	
180-146725-4	SW-1-7'	Dissolved	Water	3005A	
180-146725-5	SW-2-1'	Total Recoverable	Water	3005A	
180-146725-46	EB-01	Total Recoverable	Water	3005A	
180-146725-47	FB-01	Total Recoverable	Water	3005A	
180-146725-48	EB-02	Total Recoverable	Water	3005A	
180-146725-49	FB-02	Total Recoverable	Water	3005A	
180-146725-50	DUP-03	Dissolved	Water	3005A	
MB 180-416893/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-416893/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 416939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-6	SW-2-1'	Dissolved	Water	EPA 6020B	416774
180-146725-7	SW-2-7'	Total Recoverable	Water	EPA 6020B	416774
180-146725-8	SW-2-7'	Dissolved	Water	EPA 6020B	416774
180-146725-9	SW-3-1'	Total Recoverable	Water	EPA 6020B	416774
180-146725-10	SW-3-1'	Dissolved	Water	EPA 6020B	416774
180-146725-11	SW-3-4'	Total Recoverable	Water	EPA 6020B	416774
180-146725-12	SW-3-4'	Dissolved	Water	EPA 6020B	416774
180-146725-13	SW-4-1.5'	Total Recoverable	Water	EPA 6020B	416774
180-146725-14	SW-4-1.5'	Dissolved	Water	EPA 6020B	416774
180-146725-15	SW-5-1'	Total Recoverable	Water	EPA 6020B	416774
180-146725-16	SW-5-1'	Dissolved	Water	EPA 6020B	416774
180-146725-17	SW-5-13'	Total Recoverable	Water	EPA 6020B	416774
180-146725-18	SW-5-13'	Dissolved	Water	EPA 6020B	416774
180-146725-19	SW-6-1'	Total Recoverable	Water	EPA 6020B	416774

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QC Association Summary

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

Job ID: 180-146725-1

Metals (Continued)

Analysis Batch: 416939 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-20	SW-6-1'	Dissolved	Water	EPA 6020B	416774
180-146725-21	SW-6-9'.5'	Total Recoverable	Water	EPA 6020B	416774
180-146725-22	SW-6-9'.5'	Dissolved	Water	EPA 6020B	416774
180-146725-23	SW-9-1'	Total Recoverable	Water	EPA 6020B	416774
180-146725-24	SW-9-1'	Dissolved	Water	EPA 6020B	416774
180-146725-25	SW-9-4'	Total Recoverable	Water	EPA 6020B	416774
MB 180-416774/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	416774
LCS 180-416774/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	416774
180-146725-14 MS	SW-4-1.5'	Dissolved	Water	EPA 6020B	416774
180-146725-14 MSD	SW-4-1.5'	Dissolved	Water	EPA 6020B	416774

Prep Batch: 416987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-6	SW-2-1'	Dissolved	Water	3005A	
180-146725-7	SW-2-7'	Total Recoverable	Water	3005A	
180-146725-8	SW-2-7'	Dissolved	Water	3005A	
180-146725-9	SW-3-1'	Total Recoverable	Water	3005A	
180-146725-10	SW-3-1'	Dissolved	Water	3005A	
180-146725-11	SW-3-4'	Total Recoverable	Water	3005A	
180-146725-12	SW-3-4'	Dissolved	Water	3005A	
180-146725-13	SW-4-1.5'	Total Recoverable	Water	3005A	
180-146725-14	SW-4-1.5'	Dissolved	Water	3005A	
180-146725-15	SW-5-1'	Total Recoverable	Water	3005A	
180-146725-16	SW-5-1'	Dissolved	Water	3005A	
180-146725-17	SW-5-13'	Total Recoverable	Water	3005A	
180-146725-18	SW-5-13'	Dissolved	Water	3005A	
180-146725-19	SW-6-1'	Total Recoverable	Water	3005A	
180-146725-20	SW-6-1'	Dissolved	Water	3005A	
180-146725-21	SW-6-9'.5'	Total Recoverable	Water	3005A	
180-146725-22	SW-6-9'.5'	Dissolved	Water	3005A	
180-146725-23	SW-9-1'	Total Recoverable	Water	3005A	
180-146725-24	SW-9-1'	Dissolved	Water	3005A	
180-146725-25	SW-9-4'	Total Recoverable	Water	3005A	
MB 180-416987/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-416987/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-146725-14 MS	SW-4-1.5'	Dissolved	Water	3005A	
180-146725-14 MSD	SW-4-1.5'	Dissolved	Water	3005A	

Analysis Batch: 417081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-1	SW-1-1'	Total/NA	Water	EPA 7470A	416608
180-146725-2	SW-1-1'	Dissolved	Water	EPA 7470A	416608
180-146725-3	SW-1-7'	Total/NA	Water	EPA 7470A	416608
180-146725-4	SW-1-7'	Dissolved	Water	EPA 7470A	416608
180-146725-5	SW-2-1'	Total/NA	Water	EPA 7470A	416608
180-146725-6	SW-2-1'	Dissolved	Water	EPA 7470A	416608
180-146725-7	SW-2-7'	Total/NA	Water	EPA 7470A	416608
180-146725-8	SW-2-7'	Dissolved	Water	EPA 7470A	416608
180-146725-9	SW-3-1'	Total/NA	Water	EPA 7470A	416608
180-146725-10	SW-3-1'	Dissolved	Water	EPA 7470A	416608
180-146725-11	SW-3-4'	Total/NA	Water	EPA 7470A	416608

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QC Association Summary

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

Job ID: 180-146725-1

Metals (Continued)

Analysis Batch: 417081 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-12	SW-3-4'	Dissolved	Water	EPA 7470A	416608
180-146725-13	SW-4-1.5'	Total/NA	Water	EPA 7470A	416608
180-146725-14	SW-4-1.5'	Dissolved	Water	EPA 7470A	416608
180-146725-15	SW-5-1'	Total/NA	Water	EPA 7470A	416608
180-146725-16	SW-5-1'	Dissolved	Water	EPA 7470A	416608
180-146725-17	SW-5-13'	Total/NA	Water	EPA 7470A	416608
180-146725-18	SW-5-13'	Dissolved	Water	EPA 7470A	416608
180-146725-19	SW-6-1'	Total/NA	Water	EPA 7470A	416608
180-146725-20	SW-6-1'	Dissolved	Water	EPA 7470A	416609
180-146725-21	SW-6-9'.5'	Total/NA	Water	EPA 7470A	416609
180-146725-22	SW-6-9'.5'	Dissolved	Water	EPA 7470A	416609
180-146725-23	SW-9-1'	Total/NA	Water	EPA 7470A	416609
180-146725-24	SW-9-1'	Dissolved	Water	EPA 7470A	416609
180-146725-25	SW-9-4'	Total/NA	Water	EPA 7470A	416609
180-146725-26	SW-9-4'	Dissolved	Water	EPA 7470A	416609
180-146725-27	SW-10-2'	Total/NA	Water	EPA 7470A	416609
180-146725-28	SW-10-2'	Dissolved	Water	EPA 7470A	416609
180-146725-29	SW-11-1'	Total/NA	Water	EPA 7470A	416609
180-146725-30	SW-11-1'	Dissolved	Water	EPA 7470A	416609
180-146725-31	SW-12-1'	Total/NA	Water	EPA 7470A	416609
180-146725-32	SW-12-1'	Dissolved	Water	EPA 7470A	416609
180-146725-33	SW-13-1'	Total/NA	Water	EPA 7470A	416609
180-146725-34	SW-13-1'	Dissolved	Water	EPA 7470A	416609
180-146725-35	SW-14-1'.5'	Total/NA	Water	EPA 7470A	416609
180-146725-36	SW-14-1'.5'	Dissolved	Water	EPA 7470A	416609
180-146725-37	SW-15-1'.5'	Total/NA	Water	EPA 7470A	416609
180-146725-38	SW-15-1'.5'	Dissolved	Water	EPA 7470A	416609
180-146725-39	SW-16-1'.5'	Total/NA	Water	EPA 7470A	416610
180-146725-40	SW-16-1'.5'	Dissolved	Water	EPA 7470A	416610
180-146725-41	DUP-01	Total/NA	Water	EPA 7470A	416610
180-146725-42	DUP-01	Dissolved	Water	EPA 7470A	416610
180-146725-43	DUP-02	Total/NA	Water	EPA 7470A	416610
180-146725-44	DUP-02	Dissolved	Water	EPA 7470A	416610
180-146725-45	DUP-03	Total/NA	Water	EPA 7470A	416610
180-146725-46	EB-01	Total/NA	Water	EPA 7470A	416610
180-146725-47	FB-01	Total/NA	Water	EPA 7470A	416610
180-146725-48	EB-02	Total/NA	Water	EPA 7470A	416610
180-146725-49	FB-02	Total/NA	Water	EPA 7470A	416610
180-146725-50	DUP-03	Dissolved	Water	EPA 7470A	416610
MB 180-416608/1-A	Method Blank	Total/NA	Water	EPA 7470A	416608
MB 180-416609/1-A	Method Blank	Total/NA	Water	EPA 7470A	416609
MB 180-416610/1-A	Method Blank	Total/NA	Water	EPA 7470A	416610
LCS 180-416608/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	416608
LCS 180-416609/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	416609
LCS 180-416610/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	416610
180-146725-1 MS	SW-1-1'	Total/NA	Water	EPA 7470A	416608
180-146725-1 MSD	SW-1-1'	Total/NA	Water	EPA 7470A	416608
180-146725-20 MS	SW-6-1'	Dissolved	Water	EPA 7470A	416609
180-146725-20 MSD	SW-6-1'	Dissolved	Water	EPA 7470A	416609
180-146725-39 MS	SW-16-1'.5'	Total/NA	Water	EPA 7470A	416610
180-146725-39 MSD	SW-16-1'.5'	Total/NA	Water	EPA 7470A	416610

Eurofins Pittsburgh

QC Association Summary

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

Job ID: 180-146725-1

Metals

Analysis Batch: 417094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-26	SW-9-4'	Dissolved	Water	EPA 6020B	416775
180-146725-27	SW-10-2'	Total Recoverable	Water	EPA 6020B	416775
180-146725-28	SW-10-2'	Dissolved	Water	EPA 6020B	416775
180-146725-29	SW-11-1'	Total Recoverable	Water	EPA 6020B	416775
180-146725-30	SW-11-1'	Dissolved	Water	EPA 6020B	416775
180-146725-31	SW-12-1'	Total Recoverable	Water	EPA 6020B	416775
180-146725-32	SW-12-1'	Dissolved	Water	EPA 6020B	416775
180-146725-33	SW-13-1'	Total Recoverable	Water	EPA 6020B	416775
180-146725-34	SW-13-1'	Dissolved	Water	EPA 6020B	416775
180-146725-35	SW-14-1'.5'	Total Recoverable	Water	EPA 6020B	416775
180-146725-36	SW-14-1'.5'	Dissolved	Water	EPA 6020B	416775
180-146725-37	SW-15-1'.5'	Total Recoverable	Water	EPA 6020B	416775
180-146725-38	SW-15-1'.5'	Dissolved	Water	EPA 6020B	416775
180-146725-39	SW-16-1'.5'	Total Recoverable	Water	EPA 6020B	416775
180-146725-40	SW-16-1'.5'	Dissolved	Water	EPA 6020B	416775
180-146725-41	DUP-01	Total Recoverable	Water	EPA 6020B	416775
180-146725-42	DUP-01	Dissolved	Water	EPA 6020B	416775
180-146725-43	DUP-02	Total Recoverable	Water	EPA 6020B	416775
180-146725-44	DUP-02	Dissolved	Water	EPA 6020B	416775
180-146725-45	DUP-03	Total Recoverable	Water	EPA 6020B	416775
MB 180-416775/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	416775
LCS 180-416775/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	416775
180-146725-33 MS	SW-13-1'	Total Recoverable	Water	EPA 6020B	416775
180-146725-33 MSD	SW-13-1'	Total Recoverable	Water	EPA 6020B	416775

Analysis Batch: 417114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-1	SW-1-1'	Total Recoverable	Water	EPA 6020B	416893
180-146725-2	SW-1-1'	Dissolved	Water	EPA 6020B	416893
180-146725-3	SW-1-7'	Total Recoverable	Water	EPA 6020B	416893
180-146725-4	SW-1-7'	Dissolved	Water	EPA 6020B	416893
180-146725-5	SW-2-1'	Total Recoverable	Water	EPA 6020B	416893
180-146725-46	EB-01	Total Recoverable	Water	EPA 6020B	416893
180-146725-47	FB-01	Total Recoverable	Water	EPA 6020B	416893
180-146725-48	EB-02	Total Recoverable	Water	EPA 6020B	416893
180-146725-49	FB-02	Total Recoverable	Water	EPA 6020B	416893
180-146725-50	DUP-03	Dissolved	Water	EPA 6020B	416893
MB 180-416893/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	416893
LCS 180-416893/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	416893

Prep Batch: 417140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-26	SW-9-4'	Dissolved	Water	3005A	
180-146725-27	SW-10-2'	Total Recoverable	Water	3005A	
180-146725-28	SW-10-2'	Dissolved	Water	3005A	
180-146725-29	SW-11-1'	Total Recoverable	Water	3005A	
180-146725-30	SW-11-1'	Dissolved	Water	3005A	
180-146725-31	SW-12-1'	Total Recoverable	Water	3005A	
180-146725-32	SW-12-1'	Dissolved	Water	3005A	
180-146725-33	SW-13-1'	Total Recoverable	Water	3005A	
180-146725-34	SW-13-1'	Dissolved	Water	3005A	

Eurofins Pittsburgh

QC Association Summary

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

Job ID: 180-146725-1

Metals (Continued)

Prep Batch: 417140 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-35	SW-14-1'.5'	Total Recoverable	Water	3005A	
180-146725-36	SW-14-1'.5'	Dissolved	Water	3005A	
180-146725-37	SW-15-1'.5'	Total Recoverable	Water	3005A	
180-146725-38	SW-15-1'.5'	Dissolved	Water	3005A	
180-146725-39	SW-16-1'.5'	Total Recoverable	Water	3005A	
180-146725-40	SW-16-1'.5'	Dissolved	Water	3005A	
180-146725-41	DUP-01	Total Recoverable	Water	3005A	
180-146725-42	DUP-01	Dissolved	Water	3005A	
180-146725-43	DUP-02	Total Recoverable	Water	3005A	
180-146725-44	DUP-02	Dissolved	Water	3005A	
180-146725-45	DUP-03	Total Recoverable	Water	3005A	
MB 180-417140/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-417140/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-146725-33 MS	SW-13-1'	Total Recoverable	Water	3005A	
180-146725-33 MSD	SW-13-1'	Total Recoverable	Water	3005A	

Analysis Batch: 417223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-33	SW-13-1'	Total Recoverable	Water	EPA 6020B	416775
180-146725-34	SW-13-1'	Dissolved	Water	EPA 6020B	416775
180-146725-35	SW-14-1'.5'	Total Recoverable	Water	EPA 6020B	416775
180-146725-36	SW-14-1'.5'	Dissolved	Water	EPA 6020B	416775
180-146725-37	SW-15-1'.5'	Total Recoverable	Water	EPA 6020B	416775
180-146725-38	SW-15-1'.5'	Dissolved	Water	EPA 6020B	416775
180-146725-39	SW-16-1'.5'	Total Recoverable	Water	EPA 6020B	416775
180-146725-40	SW-16-1'.5'	Dissolved	Water	EPA 6020B	416775
180-146725-41	DUP-01	Total Recoverable	Water	EPA 6020B	416775
180-146725-42	DUP-01	Dissolved	Water	EPA 6020B	416775
180-146725-43	DUP-02	Total Recoverable	Water	EPA 6020B	416775
180-146725-44	DUP-02	Dissolved	Water	EPA 6020B	416775
180-146725-45	DUP-03	Total Recoverable	Water	EPA 6020B	416775
180-146725-33 MS	SW-13-1'	Total Recoverable	Water	EPA 6020B	416775
180-146725-33 MSD	SW-13-1'	Total Recoverable	Water	EPA 6020B	416775

Analysis Batch: 417224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-1	SW-1-1'	Total Recoverable	Water	EPA 6020B	416893
MB 180-416893/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	416893
LCS 180-416893/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	416893

Analysis Batch: 417366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-6	SW-2-1'	Dissolved	Water	EPA 6020B	416987
180-146725-7	SW-2-7'	Total Recoverable	Water	EPA 6020B	416987
180-146725-8	SW-2-7'	Dissolved	Water	EPA 6020B	416987
180-146725-9	SW-3-1'	Total Recoverable	Water	EPA 6020B	416987
180-146725-10	SW-3-1'	Dissolved	Water	EPA 6020B	416987
180-146725-11	SW-3-4'	Total Recoverable	Water	EPA 6020B	416987
180-146725-12	SW-3-4'	Dissolved	Water	EPA 6020B	416987
180-146725-13	SW-4-1.5'	Total Recoverable	Water	EPA 6020B	416987
180-146725-14	SW-4-1.5'	Dissolved	Water	EPA 6020B	416987

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QC Association Summary

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

Job ID: 180-146725-1

Metals (Continued)

Analysis Batch: 417366 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-15	SW-5-1'	Total Recoverable	Water	EPA 6020B	416987
180-146725-16	SW-5-1'	Dissolved	Water	EPA 6020B	416987
180-146725-17	SW-5-13'	Total Recoverable	Water	EPA 6020B	416987
180-146725-18	SW-5-13'	Dissolved	Water	EPA 6020B	416987
180-146725-19	SW-6-1'	Total Recoverable	Water	EPA 6020B	416987
180-146725-20	SW-6-1'	Dissolved	Water	EPA 6020B	416987
180-146725-21	SW-6-9'.5'	Total Recoverable	Water	EPA 6020B	416987
180-146725-22	SW-6-9'.5'	Dissolved	Water	EPA 6020B	416987
180-146725-23	SW-9-1'	Total Recoverable	Water	EPA 6020B	416987
180-146725-24	SW-9-1'	Dissolved	Water	EPA 6020B	416987
180-146725-25	SW-9-4'	Total Recoverable	Water	EPA 6020B	416987
180-146725-26	SW-9-4'	Dissolved	Water	EPA 6020B	417140
180-146725-27	SW-10-2'	Total Recoverable	Water	EPA 6020B	417140
180-146725-28	SW-10-2'	Dissolved	Water	EPA 6020B	417140
180-146725-29	SW-11-1'	Total Recoverable	Water	EPA 6020B	417140
180-146725-30	SW-11-1'	Dissolved	Water	EPA 6020B	417140
180-146725-31	SW-12-1'	Total Recoverable	Water	EPA 6020B	417140
180-146725-32	SW-12-1'	Dissolved	Water	EPA 6020B	417140
180-146725-33	SW-13-1'	Total Recoverable	Water	EPA 6020B	417140
180-146725-34	SW-13-1'	Dissolved	Water	EPA 6020B	417140
180-146725-35	SW-14-1'.5'	Total Recoverable	Water	EPA 6020B	417140
180-146725-36	SW-14-1'.5'	Dissolved	Water	EPA 6020B	417140
180-146725-37	SW-15-1'.5'	Total Recoverable	Water	EPA 6020B	417140
180-146725-38	SW-15-1'.5'	Dissolved	Water	EPA 6020B	417140
180-146725-39	SW-16-1'.5'	Total Recoverable	Water	EPA 6020B	417140
180-146725-40	SW-16-1'.5'	Dissolved	Water	EPA 6020B	417140
180-146725-41	DUP-01	Total Recoverable	Water	EPA 6020B	417140
180-146725-42	DUP-01	Dissolved	Water	EPA 6020B	417140
180-146725-43	DUP-02	Total Recoverable	Water	EPA 6020B	417140
180-146725-44	DUP-02	Dissolved	Water	EPA 6020B	417140
180-146725-45	DUP-03	Total Recoverable	Water	EPA 6020B	417140
MB 180-416987/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	416987
MB 180-417140/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	417140
LCS 180-416987/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	416987
LCS 180-417140/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	417140
180-146725-14 MS	SW-4-1.5'	Dissolved	Water	EPA 6020B	416987
180-146725-14 MSD	SW-4-1.5'	Dissolved	Water	EPA 6020B	416987
180-146725-33 MS	SW-13-1'	Total Recoverable	Water	EPA 6020B	417140
180-146725-33 MSD	SW-13-1'	Total Recoverable	Water	EPA 6020B	417140

Analysis Batch: 417508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-6	SW-2-1'	Dissolved	Water	EPA 6020B	416987
180-146725-7	SW-2-7'	Total Recoverable	Water	EPA 6020B	416987
180-146725-8	SW-2-7'	Dissolved	Water	EPA 6020B	416987
180-146725-9	SW-3-1'	Total Recoverable	Water	EPA 6020B	416987
180-146725-10	SW-3-1'	Dissolved	Water	EPA 6020B	416987
180-146725-11	SW-3-4'	Total Recoverable	Water	EPA 6020B	416987
180-146725-12	SW-3-4'	Dissolved	Water	EPA 6020B	416987
180-146725-13	SW-4-1.5'	Total Recoverable	Water	EPA 6020B	416987
180-146725-14	SW-4-1.5'	Dissolved	Water	EPA 6020B	416987

Eurofins Pittsburgh

QC Association Summary

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

Job ID: 180-146725-1

Metals (Continued)

Analysis Batch: 417508 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-15	SW-5-1'	Total Recoverable	Water	EPA 6020B	416987
180-146725-16	SW-5-1'	Dissolved	Water	EPA 6020B	416987
180-146725-17	SW-5-13'	Total Recoverable	Water	EPA 6020B	416987
180-146725-18	SW-5-13'	Dissolved	Water	EPA 6020B	416987
180-146725-19	SW-6-1'	Total Recoverable	Water	EPA 6020B	416987
180-146725-20	SW-6-1'	Dissolved	Water	EPA 6020B	416987
180-146725-21	SW-6-9'.5'	Total Recoverable	Water	EPA 6020B	416987
180-146725-22	SW-6-9'.5'	Dissolved	Water	EPA 6020B	416987
180-146725-23	SW-9-1'	Total Recoverable	Water	EPA 6020B	416987
180-146725-24	SW-9-1'	Dissolved	Water	EPA 6020B	416987
180-146725-41	DUP-01	Total Recoverable	Water	EPA 6020B	417140
180-146725-42	DUP-01	Dissolved	Water	EPA 6020B	417140
180-146725-43	DUP-02	Total Recoverable	Water	EPA 6020B	417140
180-146725-44	DUP-02	Dissolved	Water	EPA 6020B	417140
180-146725-45	DUP-03	Total Recoverable	Water	EPA 6020B	417140
MB 180-416987/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	416987
LCS 180-416987/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	416987
180-146725-14 MS	SW-4-1.5'	Dissolved	Water	EPA 6020B	416987
180-146725-14 MSD	SW-4-1.5'	Dissolved	Water	EPA 6020B	416987

Analysis Batch: 418005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-25	SW-9-4'	Total Recoverable	Water	EPA 6020B	416987

Analysis Batch: 420164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-2	SW-1-1'	Dissolved	Water	EPA 6020B	416893
MB 180-416893/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	416893
LCS 180-416893/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	416893

General Chemistry

Analysis Batch: 416192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-27	SW-10-2'	Total/NA	Water	SM 2540C	
180-146725-28	SW-10-2'	Dissolved	Water	SM 2540C	
180-146725-29	SW-11-1'	Total/NA	Water	SM 2540C	
180-146725-30	SW-11-1'	Dissolved	Water	SM 2540C	
180-146725-31	SW-12-1'	Total/NA	Water	SM 2540C	
MB 180-416192/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-416192/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 416245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-1	SW-1-1'	Total/NA	Water	SM 2540C	
180-146725-25	SW-9-4'	Total/NA	Water	SM 2540C	
180-146725-26	SW-9-4'	Dissolved	Water	SM 2540C	
180-146725-32	SW-12-1'	Dissolved	Water	SM 2540C	
MB 180-416245/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-416245/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Eurofins Pittsburgh

QC Association Summary

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

Job ID: 180-146725-1

General Chemistry

Analysis Batch: 416307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-19	SW-6-1'	Total/NA	Water	SM 2540C	
180-146725-33	SW-13-1'	Total/NA	Water	SM 2540C	
180-146725-34	SW-13-1'	Dissolved	Water	SM 2540C	
180-146725-35	SW-14-1'.5'	Total/NA	Water	SM 2540C	
180-146725-37	SW-15-1'.5'	Total/NA	Water	SM 2540C	
180-146725-40	SW-16-1'.5'	Dissolved	Water	SM 2540C	
180-146725-45	DUP-03	Total/NA	Water	SM 2540C	
180-146725-46	EB-01	Total/NA	Water	SM 2540C	
180-146725-47	FB-01	Total/NA	Water	SM 2540C	
180-146725-48	EB-02	Total/NA	Water	SM 2540C	
180-146725-49	FB-02	Total/NA	Water	SM 2540C	
180-146725-50	DUP-03	Dissolved	Water	SM 2540C	
MB 180-416307/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-416307/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-146725-19 DU	SW-6-1'	Total/NA	Water	SM 2540C	

Analysis Batch: 416326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-4	SW-1-7'	Dissolved	Water	SM 2540C	
180-146725-5	SW-2-1'	Total/NA	Water	SM 2540C	
180-146725-6	SW-2-1'	Dissolved	Water	SM 2540C	
180-146725-7	SW-2-7'	Total/NA	Water	SM 2540C	
180-146725-8	SW-2-7'	Dissolved	Water	SM 2540C	
180-146725-9	SW-3-1'	Total/NA	Water	SM 2540C	
180-146725-10	SW-3-1'	Dissolved	Water	SM 2540C	
180-146725-11	SW-3-4'	Total/NA	Water	SM 2540C	
180-146725-12	SW-3-4'	Dissolved	Water	SM 2540C	
180-146725-13	SW-4-1.5'	Total/NA	Water	SM 2540C	
180-146725-16	SW-5-1'	Dissolved	Water	SM 2540C	
180-146725-17	SW-5-13'	Total/NA	Water	SM 2540C	
180-146725-18	SW-5-13'	Dissolved	Water	SM 2540C	
180-146725-21	SW-6-9'.5'	Total/NA	Water	SM 2540C	
180-146725-22	SW-6-9'.5'	Dissolved	Water	SM 2540C	
180-146725-38	SW-15-1'.5'	Dissolved	Water	SM 2540C	
MB 180-416326/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-416326/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-146725-13 DU	SW-4-1.5'	Total/NA	Water	SM 2540C	

Analysis Batch: 416426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-2	SW-1-1'	Dissolved	Water	SM 2540C	
180-146725-3	SW-1-7'	Total/NA	Water	SM 2540C	
180-146725-14	SW-4-1.5'	Dissolved	Water	SM 2540C	
180-146725-15	SW-5-1'	Total/NA	Water	SM 2540C	
180-146725-20	SW-6-1'	Dissolved	Water	SM 2540C	
180-146725-23	SW-9-1'	Total/NA	Water	SM 2540C	
180-146725-24	SW-9-1'	Dissolved	Water	SM 2540C	
180-146725-36	SW-14-1'.5'	Dissolved	Water	SM 2540C	
180-146725-39	SW-16-1'.5'	Total/NA	Water	SM 2540C	
180-146725-41	DUP-01	Total/NA	Water	SM 2540C	
180-146725-42	DUP-01	Dissolved	Water	SM 2540C	

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QC Association Summary

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

Job ID: 180-146725-1

General Chemistry (Continued)

Analysis Batch: 416426 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-43	DUP-02	Total/NA	Water	SM 2540C	
180-146725-44	DUP-02	Dissolved	Water	SM 2540C	
MB 180-416426/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-416426/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-146725-43 DU	DUP-02	Total/NA	Water	SM 2540C	

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- 11
- 12
- 13

Eurofins TestAmerica, Pittsburgh

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

Chain of Custody Record

eurofins
Environment Testing
America

Client Contact: *Sample for lower/best sites*
SCS Contacts: *Hester*
Company: *850-336-0192*



Lab P/N: Brown, Shail
E-Mail: shail.brown@eurofins.net
Job #: *196*

Analysis Requested

Address: 3535 Colonnade Pkwy Bin S 530 EC
City: Birmingham
State, Zip: AL, 35243
Phone: 205-992-6283
Email: 205-992-6283
SCS Contacts: W/O #:
Project Name: Plant Watson
Project #: 18020186
SSOW#:
Site: Ash Pond (Surface Water)

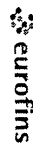
Due Date Requested:
TAT Requested (days):
Date:
Field Filtered Sample (Yes or No):
Perform Initial D (Yes or No):
300_28Day Chloride Fluoride Sulfate
6020B/7470 Custom 23 (ApplIII/ApplIV+9) + Mercury
9315_Ra226 Radium 226
9320_Ra228 Radium 228
Combined RAD
Total Number of containers:
Special Instructions/Note:
DEPTH GOES HERE

Sample Identification	Sample Date	Sample Time	Sample Type (G=Comp, BR=Tissue, Ash)	Matrix (W=Water, S=Soil, O=Organic, A=Air)	Field Filtered Sample (Yes or No)	Perform Initial D (Yes or No)	300_28Day Chloride Fluoride Sulfate	6020B/7470 Custom 23 (ApplIII/ApplIV+9) + Mercury	9315_Ra226 Radium 226	9320_Ra228 Radium 228	Combined RAD	Total Number of containers	Special Instructions/Note:
SW-1 -1'	10-20-22	1709	G	SW	X	X	X	X	X	X	X	X	Depth = 1ft
SW-1 -1'	10-20-22	1720	G	SW	X	X	X	X	X	X	X	X	Depth = 1ft
SW-1 -7'	10-20-22	1739	G	SW	X	X	X	X	X	X	X	X	Depth = 7ft
SW-1 -7'	10-20-22	1747	G	SW	X	X	X	X	X	X	X	X	Depth = 7ft
SW-2 -1'	10-20-22	1611	G	SW	X	X	X	X	X	X	X	X	Depth = 1ft
SW-2 -1'	10-20-22	1620	G	SW	X	X	X	X	X	X	X	X	Depth = 1ft
SW-2 -7'	10-20-22	1649	G	SW	X	X	X	X	X	X	X	X	Depth = 7ft
SW-2 -7'	10-20-22	1659	G	SW	X	X	X	X	X	X	X	X	Depth = 7ft
SW-3 -1'	10-20-22	0845	G	SW	X	X	X	X	X	X	X	X	Depth = 1ft
SW-3 -1'	10-20-22	0853	G	SW	X	X	X	X	X	X	X	X	Depth = 1ft
SW-3 -4'	10-20-22	0913	G	SW	X	X	X	X	X	X	X	X	Depth = 4ft

Relinquished by: *[Signature]* Date: 10-21-22 Company: **PSH BW**
Relinquished by: *[Signature]* Date: 10-21-22 Company: **PSH BW**
Custody Seals Intact: Yes No Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

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

Client Contact:
SCS Contacts

Sampler: *Ritz + Levine/Duff*
Phone: *850-336-0192*

Lab PM: Brown, Shail
E-Mail: shail.brown@eurofins.com

Company:

Analysis Requested

Carrier Tracking No(s)

COC No

Page: *276*
Job #:

Address:
3536 Colonnade Pkwy, Bin S 530 EC

Due Date Requested:

Date:

Method of Shipment:

Preservation Codes:

City:
Birmingham

TAT Requested (days):

Received by: *D. Williams*

Date/Time: *10-23-22*

Company: *ERTM*

State, Zip
AL, 35243

PO #:

Received by: *D. Williams*

Date/Time: *10-23-22*

Company: *ERTM*

Phone:
205-992-6283

WO #:

Received by: *D. Williams*

Date/Time: *10-23-22*

Company: *ERTM*

SCS Contacts

Project #:
18020186

Received by: *D. Williams*

Date/Time: *10-23-22*

Company: *ERTM*

Project Name:
Plant Watson

SSOW#:

Received by: *D. Williams*

Date/Time: *10-23-22*

Company: *ERTM*

Site:
Ash Pond (Surface Water)

Project #:
18020186

Received by: *D. Williams*

Date/Time: *10-23-22*

Company: *ERTM*

Sample Identification

Sample Date

Sample Time

Sample Type
(C=Comp, G=grat)

Matrix
(W=Water, S=Soil, O=Organic, A=Air)

Preservation Code:

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

300_28Day Chloride Fluoride Sulfate

6020B/7470 Custom 23 (ApplII/ApplIV+9) + Mercury

9315_Ra226 Radium 226

9320_Ra228 Radium 228

Combined RAD

Total Number of containers

Special Instructions/Note:

DEPTH GOES HERE

SW-3 -4'

10-20-22 0920 G SW X

Depth = *4ft*

SW-4 -1.5"

10-20-22 1041 G SW X

Depth = *1.5ft*

SW-4 -1.5"

10-20-22 1049 G SW X

Depth = *1.5ft*

SW-4 ROK 10-21-22

10-20-22 1212 G SW X

Depth = *1ft*

SW-5 -1'

10-20-22 1217 G SW X

Depth = *1ft*

SW-5 -13'

10-20-22 1156 G SW X

Depth = *13ft*

SW-5 -13'

10-20-22 1201 G SW X

Depth = *13ft*

SW-6 -1'

10-20-22 1128 G SW X

Depth = *1ft*

SW-6 -1'

10-20-22 1133 G SW X

Depth = *1ft*

Possible Hazard Identification

Non-Hazard

Flammable

Skin Irritant

Poison B

Unknown

Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client

Disposal By Lab

Archive For

Months

Deliverable Requested I, II, III, IV, Other (specify)

Empty Kit Relinquished by:

Date:

Time:

Received by: *D. Williams*

Date/Time: *10-23-22*

Company: *ERTM*

Relinquished by: *[Signature]*

Date/Time: *10-23-22*

Company: *ERTM*

Relinquished by:

Date/Time:

Company:

Received by:

Date/Time:

Company:

Cooler Temperature(s) °C and Other Remarks:

Custody Seals Intact: Yes No

Custody Seal No.:

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

Chain of Custody Record

Client Information

Client Contact: *Hagen Doster / SCS*
SCS Contacts: *Hagen Doster / SCS*
Phone: *850-336-0192*

Lab PM: *Brown, Shaill*
E-Mail: *shaill.brown@eurofins.com*

Carrier Tracking Note:

COC No: *3076*

SCS

Address: 3535 Colomade Pkwy Bin S 530 EC
City: Birmingham
State, Zip: AL, 35243

Due Date Requested:

TAT Requested (days):

Analysis Requested

Preservation Codes:

- A - HCL
- B - NaOH
- C - Zn Acetate
- D - Nitric Acid
- E - NaHSO4
- F - MeOH
- G - Ammonia
- H - Acetic Acid
- I - Ice
- J - DI Water
- K - EDTA
- L - EDTA
- M - Hexane
- N - None
- O - AsNaO2
- P - Na2CO4S
- Q - Na2SO3
- R - Na2S2O3
- S - H2SO4
- T - TSP Dodecahydrate
- U - Acetone
- V - MCAA
- W - pH 4-5
- Z - other (specify)

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type (G=Comp, G=Grab)	Matrix (W=Water, S=Soil, O=Organic, A=Asphalt)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_28Day Chloride Fluoride Sulfate	6020B/7470 Custom 23 (ApplIII/ApplV+9) + Mercury	9315_Ra226 Radium 226	9320_Ra228 Radium 228	Combined RAD	Total Number of containers	Special Instructions/Note:
SW-6 - 9'5"	10-20-22	1103	G	SW	X	X	X	X	X	X	X	X	Depth = 9'5" <i>Pr</i>
SW-6 - 9'5"	10-20-22	1108	G	SW	X	X	X	X	X	X	X	X	Depth = 9'5" <i>Pr</i>
SW-9 - 1'	10-20-22	1038	G	SW	X	X	X	X	X	X	X	X	Depth = 1' <i>Pr</i>
SW-9 - 1'	10-20-22	1053	G	SW	X	X	X	X	X	X	X	X	Depth = 1' <i>Pr</i>
SW-9 - 4'	10-20-22	1020	G	SW	X	X	X	X	X	X	X	X	Depth = 4' <i>Pr</i>
SW-9 - 4'	10-20-22	1025	G	SW	X	X	X	X	X	X	X	X	Depth = 4' <i>Pr</i>
SW-10 - 2'	10-20-22	0946	G	SW	X	X	X	X	X	X	X	X	Depth = 2' <i>Pr</i>
SW-10 - 2'	10-20-22	0951	G	SW	X	X	X	X	X	X	X	X	Depth = 2' <i>Pr</i>
SW-10 - 2'	10-20-22	0923	G	SW	X	X	X	X	X	X	X	X	Depth = 1' <i>Pr</i>

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Empty Kit Relinquished by:

Date: _____

Special Instructions/QC Requirements

Return To Client Disposal By Lab Archive For _____ Months

Relinquished by:

[Signature] Date/Time: *10-21-22* *1022* Company: *ADK EW*

Received by:

[Signature] Date/Time: _____ Company: _____

Relinquished by:

Date/Time: _____ Company: _____

Received by:

[Signature] Date/Time: _____ Company: _____

Custody Seals Intact:

Yes 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



Environment Testing
America

Client Information
 Client Contact: SCS Contacts
 Company: SCS
 Address: 3535 Colomnade Pkwy Bin S 530 EC
 City: Birmingham
 State Zip: AL, 35243
 Phone: 205-992-6283
 Email: SCS Contacts
 Project Name: Plant Watson
 Site: Ash Pond (Surface Water)

Sampler: *Robert Brown / SCS*
 Project #: 18020186
 Lab P/N: Brown, Shail
 E-Mail: shail.brown@eurofinset.com

Due Date Requested:
 TAT Requested (days):
 PO #: *850-336-0192*
 WO #:
 Carrier Tracking No(s):

COCC No: *4076*
 Page: *4 of 6*
 Job #:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=Soil, O=Overstool, B=Bottom, A=Air)	Field Filtered Sample (Yes or No)		Perform MSMD (Yes or No)		Analysis Requested				Total Number of containers	Special Instructions/Note: DEPTH GOES HERE
					Field Filtered	MSMD	300_28Day Chloride Fluoride Sulfate	6020B/7470 Custom 23 (ApplIII/ApplIV+9) + Mercury	9315_Ra226 Radium 226	9320_Ra228 Radium 228	Combined RAD	Preservation Codes:		
SW-11 -1'	10-20-22	0928	G	SW	X	X	X	X	X	X	X	X	X	Depth = 1ft
SW-12 -1'	10-20-22	0856	G	SW	X	X	X	X	X	X	X	X	X	Depth = 1ft
SW-12 -1'	10-20-22	0901	G	SW	X	X	X	X	X	X	X	X	X	Depth = 1ft
SW-12 -1'	10-20-22	1420	G	SW	X	X	X	X	X	X	X	X	X	Depth = 1ft
SW-13 -1'	10-20-22	1429	G	SW	X	X	X	X	X	X	X	X	X	Depth = 1ft
SW-13 -1'	10-20-22			SW	X	X	X	X	X	X	X	X	X	Depth = 1ft
SW-13 -1'	10-20-22			SW	X	X	X	X	X	X	X	X	X	Depth = 1ft

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested I, II, III, IV, Other (specify):
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Ray Kypson* Date/Time: *10-21-22* Company: *POH EW*
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No
 Custody Seal No.: _____
 Received by: *J. Watson* Date/Time: *10-23-22* Company: *ESM/PA*
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks: _____

Special Instructions/OC Requirements: _____
 Return To Client Disposal By Lab Archive For _____ Months

Method of Shipment: _____
 Date/Time: _____ Company: _____

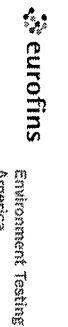
Chain of Custody Record



Client Information		Client Contact: <i>Hydrocarbons / Surface</i>		Sample: <i>RDH - 10-21-22</i>		Lab P/N: Brown, Shail		Carrier Tracking No(s)		COC No	
SCS Contacts		Phone: <i>850-336-0192</i>		TAT Requested (days):		E-Mail: <i>shail.brown@eurofins.com</i>				Page: <i>5 of 6</i>	
Address: 3635 Colomade Pkwy Bin S 530 EC		City: Birmingham		State, Zip: AL, 35243		PO #:		WO #:		Project #:	
Phone: 205-992-6283		Email: 205-992-6283		Project Name: Plant Watson		Project #: 18020186		SSOW#:		Site: Ash Pond (Surface Water)	
SCS Contacts		Due Date Requested:		Field Filtered Sample (Yes or No)		Perform MSHSD (Yes or No)					
Analysis Requested		300_28Day Chloride Fluoride Sulfate		6020B/7470 Custom 23 (ApplIII/ApplV+9) + Mercury		9315_Ra226 Radium 226		9320_Ra228 Radium 228		Combined RAD	
Total Number of containers		X		DEPTH GOES HERE		Special Instructions/Note:					
SW-14, 1'S"		10-20-22		1136		6		SW		X	
SW-14, -1'S"		10-20-22		1144		6		SW		X	
SW-14, AOH - 10-21-22								SW		X	
SW-15, -1'S"		10-20-22		1207		6		SW		X	
SW-15, -1'S"		10-20-22		1215		6		SW		X	
SW-15, RDH 10-21-22								SW		X	
SW-15, AOH 10-21-22								SW		X	
SW-16, -1'S"		10-20-22		1306		6		SW		X	
SW-16, -1'S"		10-20-22		1315		6		SW		X	
SW-16, RDH 10-21-22								SW		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											
Deliverable Requested: I, II, III, IV, Other (specify)											
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:					
Relinquished by: <i>[Signature]</i>		Date/Time: 10-21-22		10:22		Company: <i>RDH ENV.</i>		Received by: <i>[Signature]</i>		Date/Time: 10-23-22	
Relinquished by: <i>[Signature]</i>		Date/Time:				Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:				Company:		Received by:		Date/Time:	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:							

Eurofins TestAmerica, Pittsburgh

Chain of Custody Record



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

Client Information
Client Contact: *Rex Blawie / BMT*
SCS Contacts: *Heidecker / Surles*
Phone: *950-336-0192*

Lab PM: *Brown, Shail*
E-Mail: *shail.brown@eurofnst.com*
COC No: *60760*

Address: 3535 Colonnade Pkwy Bln S 530 EC
City: Birmingham
State, zip: AL, 35243
Phone: 205-992-6283
Email:
SCS Contacts:
Project Name:
Plant Watson:
Site:
Ash Pond (Surface Water)

Due Date Requested:
TAT Requested (days):
PO #:
WO #:
Project #:
18020186
SSOW#:
Analysis Requested

Field Filtered Sample (Yes or No)
Perform MS/MSD (Yes or No)
300_28Day Chloride Fluoride Sulfate
6020B/7470 Custom 23 (AppIII/AppIV+9) + Mercury
9315_Ra226 Radium 226
9320_Ra228 Radium 228
Combined RAD

Job #:
Page:
Carrier Tracking No(s):
Total Number of containers:
Special Instructions/Note:
DEPTH GOES HERE

Preservation Codes:
A - HCl
B - NaOH
N - None
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amnolier
H - Acetic Acid
I - Ice
J - DI Water
K - EDTA
L - EDTA
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:
Other:
Other:
Other:
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=Organic, A=Asht)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:
SW-06 10-21-22 DWP-01	10-20-22	15:20	G	SW	X	X	X	X	X	Depth =
SW-07 10-21-22 DWP-01	10-20-22	11:51	G	SW	X	X	X	X	X	Depth =
SW-08 10-21-22 DWP-02	10-20-22	12:15	G	SW	X	X	X	X	X	Depth =
SW-09 10-21-22 DWP-02	10-20-22	12:06	G	SW	X	X	X	X	X	Depth =
SW-10 10-21-22 DWP-03	10-20-22	16:20	G	SW	X	X	X	X	X	Depth =
EB-01	10-20-22	07:15	G	WJ	X	X	X	X	X	Depth = N/A
EB-02	10-20-22	18:01	G	WJ	X	X	X	X	X	Depth = N/A
EB-03	10-20-22	18:10	G	WJ	X	X	X	X	X	Depth = N/A
DWP-03	10-20-22	16:09	G	SW	X	X	X	X	X	Depth =

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested I, II, III, IV, Other (specify)

Empty Kit Relinquished by:
Relinquished by: *[Signature]* Date: *10-21-22* Time: *10:22* Company: *COX EW*
Relinquished by: *[Signature]* Date/Time: *10-21-22* Received by: *[Signature]* Date/Time: *10-23-20* Company: *COX EW*
Relinquished by: *[Signature]* Date/Time: *10-21-22* Received by: *[Signature]* Date/Time: *10-23-20* Company: *COX EW*

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

Special Instructions/Client Requirements:
Special Instructions/QC Requirements:
Return To Client Disposal By Lab Archive For:
Months

Ver: 01/16/2019

Do not lift using this tag.

Do not lift using this tag.

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

SHIP DATE: 21OCT22
ACTWGT: 65.00 LB
CAD: 6993800/SSFE2322
DIMS: 27x14x14 IN
BILL THIRD PARTY

Part # 156297-439 RFD82 EXP 09/23

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

SHIP DATE: 21OCT22
ACTWGT: 65.00 LB
CAD: 6993800/SSFE2322
DIMS: 27x14x14 IN
BILL THIRD PARTY

Part # 156297-439 RFD82 EXP 09/23

TO TESTAMERICA PITTSBURGH

301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

(412) 963-7068

REF:

DEPT:

TO TESTAMERICA PITTSBURGH

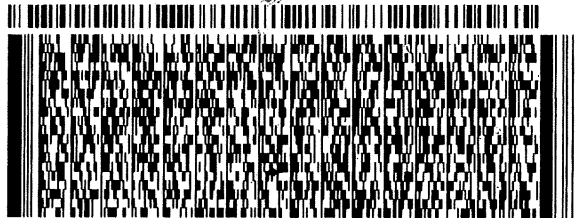
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

(412) 963-7068

REF:

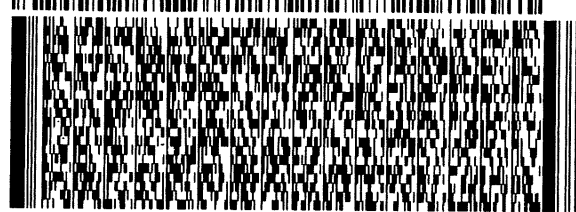
DEPT:



FedEx Express



1081012222222



FedEx Express



1081012222222

1 of 11
TRK# 0201 2794 3219 0875
MASTER

SATURDAY 12:00P
PRIORITY OVERNIGHT
AHS
15238
PA-US PIT

XO AGCA



Uncorrected temp
Thermometer ID

20.1 °C

CF Initials

20
Be

2 of 11
MPS# 0263 2794 3219 0886
Mstr# 2794 3219 0875

SATURDAY 12:00P
PRIORITY OVERNIGHT
AHS
15238
PA-US PIT

XO AGCA

Uncorrected temp
Thermometer ID

22.3 °C
20
Be

CF Initials

PT-WL-SR-001 effective 7/26/13

FedEx Express

SDR

FedEx Express

SDR

180-146725 Waybill



Do not lift using this tag.

Do not lift using this tag.

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

SHIP DATE: 21OCT22
ACTWGT: 65.00 LB
CAD: 6993800/SSFE2322
DIMS: 27x14x14 IN
BILL THIRD PARTY

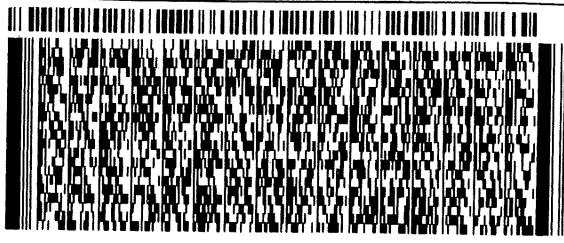
Part # 156297-495 RHOBE2 EXP 09/23

TO TESTAMERICA PITTSBURGH
301 ALPHA DR RIDC PARK
PITTSBURGH PA 15238

(412) 983-7058

REF:

DEPT:



FedEx Express



AN1081012229227

5 of 11

MPS# 0263 2794 3219 0912
Mstr# 2794 3219 0875

0201

SATURDAY 12:00
PRIORITY OVERNIGHT
AHS
15238
US PIT

XO AGCA

Uncorrected temp
Thermometer ID

20.5 °C
20

CF ϕ Initials Be

PT-WI-SR-001 effective 7/26/13

FedEx Express

SDR

FedEx Saturday Delivery

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

SHIP DATE: 21OCT22
ACTWGT: 65.00 LB
CAD: 6993800/SSFE2322
DIMS: 27x14x14 IN
BILL THIRD PARTY

TO TESTAMERICA PITTSBURGH
301 ALPHA DR RIDC PARK
PITTSBURGH PA 15238

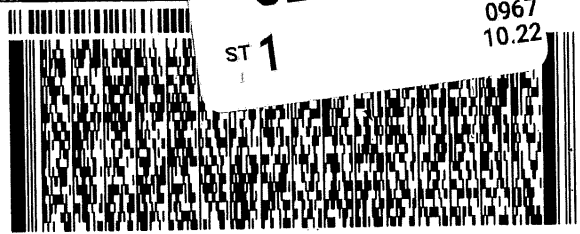
(412) 983-7058

RT 628

1 12:00

B

0967
10.22



FedEx Express



10 of 11

MPS# 0263 2794 3219 0967
Mstr# 2794 3219 0875

0201

SATURDAY 12:00
PRIORITY OVERNIGHT
AHS
15238
PA-US PI

XO AGCA

Uncorrected temp
Thermometer ID

20.8 °C
20

CF ϕ Initials Be

PT-WI-SR-001 effective 7/26/13

FedEx Express

SDR

Do not lift using this tag.

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

SHIP DATE: 21OCT22
ACTWGT: 65.00 LB
CAD: 6993800/SSFE2322
DIMS: 27x14x14 IN
BILL THIRD PARTY

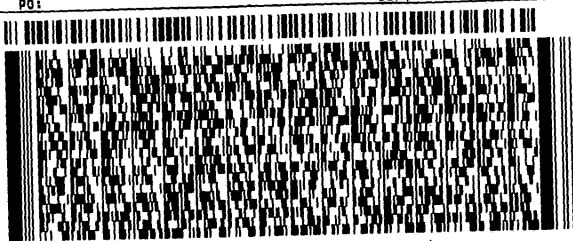
Part # 156297435 RROB2 EXP 09/23
DEPT: ASB/IT/TS

TO TESTAMERICA PITTSBURGH

301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

(412) 883-7058
REF: DEPT:



3 of 11
MPS# 2794 3219 0897
0263
Mstr# 2794 3219 0875

SATURDAY 12:00
PRIORITY OVERNIGHT
AHS
15238
PA-US PIT

XO AGCA

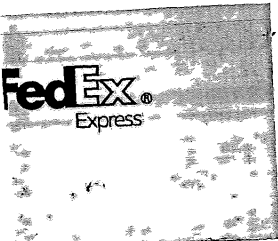
Uncorrected temp
Thermometer ID

2.4 °C
20

CF *φ*

Initials *Be*

PT-WI-SR-001 effective 7/26/13



SDR

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

SHIP DATE: 21OCT22
ACTWGT: 65.00 LB
CAD: 6993800/SSFE2322
DIMS: 27x14x14 IN
BILL THIRD PARTY

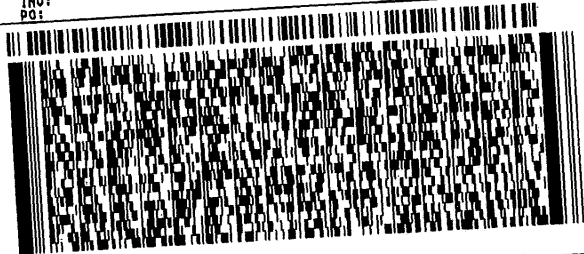
Part # 156297435 RROB2 EXP 09/23
DEPT: ASB/IT/TS

TO TESTAMERICA PITTSBURGH

301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

(412) 883-7058
REF: DEPT:



4 of 11
MPS# 2794 3219 0901
0263
Mstr# 2794 3219 0875

0201

SATURDAY 12:00
PRIORITY OVERNIGHT
AHS
15238
PA-US PIT

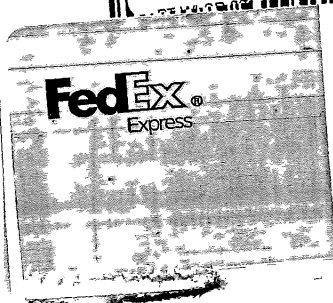
XO AGCA

Uncorrected temp
Thermometer ID

20.8 °C
20

CF *φ*

Initials *Be*



SDR

Do not lift using this tag.

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

SHIP DATE: 21OCT22
ACTWGT: 65.00 LB
CAD: 6993800/SSFE2322
DIMS: 27x14x14 IN

BILL THIRD PARTY

Part # 156297-435 FRD82 EXP 09/23

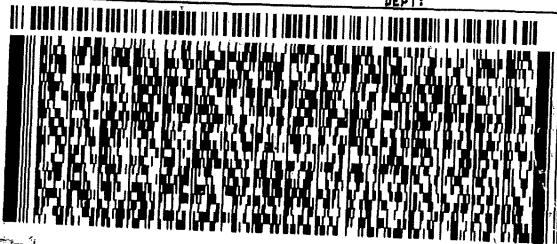
TO TESTAMERICA PITTSBURGH

301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

(412) 863-7068

REF: DEPT:



FedEx Express



8 of 11

MPS# 2794 3219 0945

Mstr# 2794 3219 0875

XO AGCA

SATURDAY 12:00
PRIORITY OVERNIGHT

AHS
15238

PA-US PIT

Uncorrected temp
Thermometer ID

20.3 °C

CF ϕ Initials BR

PT-WI-SR-001 effective 7/26/13

Thermometer ID

CF Initials

PT-WI-SR-001 effective 7/26/13

NO COC



Do not lift using this tag.

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

SHIP DATE: 21OCT22
ACTWGT: 65.00 LB
CAD: 6993800/SSFE2322
DIMS: 27x14x14 IN

BILL THIRD PARTY

Part # 156297-435 FRD82 EXP 09/23

TO TESTAMERICA PITTSBURGH

301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238



FedEx Express



RT 628

1 12:00

B

7 of 11
MPS# 2794 3219 0934

Mstr# 2794 3219 0875

XO AGCA

0934
10.22 GHT

AHS
15238

PA-US PIT

Uncorrected temp
Thermometer ID

20.9 °C

CF ϕ Initials BR

PT-WI-SR-001 effective 7/26/13

FedEx Express

SDR

FedEx

Do not lift using this tag.

Do not lift using this tag.

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

SHIP DATE: 21OCT22
ACTWGT: 65.00 LB
CAD: 6993800/SSFE2322
DIMS: 27x14x14 IN
BILL THIRD PARTY

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

SHIP DATE: 21OCT22
ACTWGT: 65.00 LB
CAD: 6993800/SSFE2322
DIMS: 27x14x14 IN
BILL THIRD PARTY

TO TESTAMERICA PITTSBURGH
301 ALPHA DR RIDC PARK
PITTSBURGH PA 15238

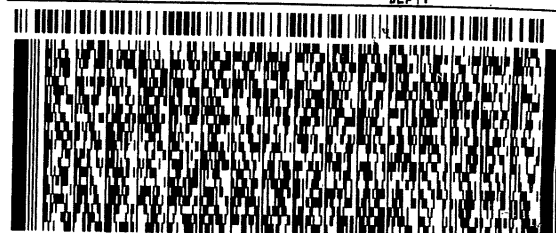
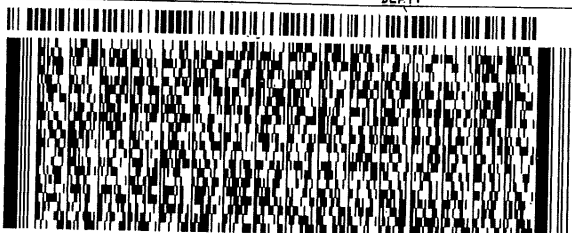
TO TESTAMERICA PITTSBURGH
301 ALPHA DR RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
INU:
PO:

REF:
DEPT:

(412) 963-7068
INU:
PO:

REF:
DEPT:



11 of 11
MPS# 2794 3219 0978
0263
Mstr# 2794 3219 0875
XO AGCA

SATURDAY 12:00P
PRIORITY OVERNIGHT
AHS
15238
PA-US PIT

9 of 11
MPS# 2794 3219 0956
0263
Mstr# 2794 3219 0875
XO AGCA

SATURDAY 12:00P
PRIORITY OVERNIGHT
AHS
15238
PA-US PIT

Uncorrected temp 2.7 °C
Thermometer ID 20
CF φ Initials BL

Uncorrected temp 2.4 °C
Thermometer ID 20
CF φ Initials BL

FedEx Express

SDR

SDR

Part # 156297-435 RRD82 EXP 09/23

AW 108 L01 2224222

REI 3/27

PT-WI-SR-001 effective 7/26/13

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Part # 159469-434 NTW EXP 09/23

ORIGIN ID:GTYA (850) 336-0192
RICK HAGENDORFER
RDH SAMPLING
10998A COUNTY ROAD 97
ELBERTA, AL 36530
UNITED STATES US

SHIP DATE: 13OCT22
ACTWGT: 50.00 LB MAN
CAD: 0129689/CAFE3511

TO

TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238-21

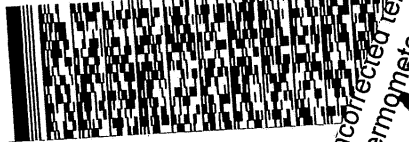
(412) 983-7068

REF:

DEPT:

RMA:

INU:
PO:



FedEx

TRK# 5881 4550 7741
0221

XO AGCA

FedEx
Express



THURSDAY 12:00P
CITY OVERNIGHT

15238

PA-US

PI

PI WI-SR-001 effective 1/26/13

Uncorrected temp
Thermometer ID

2.9 °C

CF Ø Initials BE

PI WI-SR-001 effective 7/26/13

#457371 10/21 58111AC5F/FE2D

57001/AC5F/5F4D

AN 0112120

#159469-434
EXP 09/23

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

FedEx®

ag.

FedEx®

ORIGINATOR
SHIPPING CENTER
EUROFINS LABORATORY
2425 NEW HOLLAND PIKE

DOCT22
9 LB
SAFE3616
14 IN
RT

LANCASTER, PA 17601
UNITED STATES US

TO **SAMPLE RECEIVING**
EUROFINS ENVIRONMENT TESTING
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068 X 448
INV:
PO:

REF:
DEPT

RT 98

10:30
76
10



180-146725 Waybill



J222022032801 BY

TUE - 25 OCT 10:30A
CITY OVERNIGHT

TRK# 5435 6266 76
0201

Thermometer ID

NA AGI

CF **NO COC**
Initials
PT-W-SR-001 effective 7/20/13

Part # 156148-434 MTW EXP 10/22

Uncorrected temp	<u>20.8</u> °C
Thermometer ID	<u>19</u>
CF <u>02</u>	Initials <u>Be</u>

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

Eurofins Pittsburgh

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

Chain of Custody Record



Environment Testing
America



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s): 180-472464.1
Client Contact: Shali Brown		Phone: Shali.Brown@et.eurofins.com	State of Origin: Georgia
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note)	
Address: 13715 Rider Trail North,		Job #: 180-146725-2	
City: Earth City		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 Y - Trizma L - EDTA Z - other (specify) Other:	
State, Zip: MO, 63045		Analysis Requested	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Total Number of Containers	
Email: WO #		Field Filtered Sample (Yes or No)	
Project Name: Plant Watson Ash Pond Surface Water		Perform MS/MSD (Yes or No)	
Site: SSOW#		Radium-226	
		9315_Ra226/PreSep_21 Radium 226	
		Radium-228	
		9315_Ra228/FIELD_FLTRD Radium 228 (Field Filtered)	
		9320_Ra228/FIELD_FLTRD Radium 228 (Field Filtered)	
		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, A=Al)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PreSep_21 Radium 226	Radium-228	9315_Ra228/FIELD_FLTRD Radium 228 (Field Filtered)	9320_Ra228/FIELD_FLTRD Radium 228 (Field Filtered)	Total Number of Containers
SW-1-1' (180-146725-1)	10/20/22	17:09 Eastern	Water	Water		X	X	X				2
SW-1-1' (180-146725-2)	10/20/22	17:20 Eastern	Water	Water				X	X	X		2
SW-1-7' (180-146725-3)	10/20/22	17:39 Eastern	Water	Water		X	X	X				2
SW-1-7' (180-146725-4)	10/20/22	17:47 Eastern	Water	Water		X	X	X				2
SW-2-1' (180-146725-5)	10/20/22	16:11 Eastern	Water	Water		X	X	X				2
SW-2-1' (180-146725-6)	10/20/22	16:20 Eastern	Water	Water		X	X	X		X		2
SW-2-7' (180-146725-7)	10/20/22	16:49 Eastern	Water	Water		X	X	X		X		2
SW-2-7' (180-146725-8)	10/20/22	16:59 Eastern	Water	Water		X	X	X		X		2
SW-3-1' (180-146725-9)	10/20/22	08:45 Eastern	Water	Water		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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

Possible Hazard Identification	
Unconfirmed	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 <input type="checkbox"/> Months
Special Instructions/QC Requirements:	
Method of Shipment:	
Date/Time: 10-26-22 1800	Received by: FED EX
Date/Time: 10-27-2022 0900	Received by: Autumn R. Johnson
Date/Time:	Received by:
Company: COASTAL	Company: FED EX
Company:	Company:
Company:	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 (Sub Contract Lab)		Lab PM: Brown, Shail		Carrier Tracking No(s): 180-472464-2											
Client Contact: Shipping/Receiving		E-Mail: Shail.Brown@et.eurofins.com		Page: 2 of 6											
Company: TestAmerica Laboratories, Inc.		State of Origin: Georgia		Job #: 180-146725-2											
Address: 13715 Rider Trail North,		Due Date Requested: 11/28/2022		Analysis Requested Analysis Requested: 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, Y - Trizma, Z - other (specify) Other:											
City: Earth City		TAT Requested (days):													
State, Zip: MO, 63045		PO #:													
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:													
Email:		Project #: 18020186													
Plant Watson Ash Pond Surface Water		SOW#:													
Site:															
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Solid, O=Wast/oli, BT=Issue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	930_Ra226/PreSep_0_Radium 228	9315_Ra226/PreSep_21 Radium 226	Ra226/Ra228 GFP/Combined Radium 226 and Radium-228	9315_Ra226/FIELD_FLTRD Radium 226 (Field Filtered)	9320_Ra228/FIELD_FLTRD Radium 228 (Field Filtered)	Total Number of Containers	Special Instructions/Note:
SW-3-1' (180-146725-10)		10/20/22	08:53 Eastern	Water	Water		X	X	X					2	
SW-3-4' (180-146725-11)		10/20/22	09:13 Eastern	Water	Water		X	X	X					2	
SW-3-4' (180-146725-12)		10/20/22	09:20 Eastern	Water	Water		X	X	X					2	
SW-4-1.5' (180-146725-13)		10/20/22	10:41 Eastern	Water	Water		X	X	X					2	
SW-4-1.5' (180-146725-14)		10/20/22	10:49 Eastern	Water	Water		X	X	X					2	
SW-5-1' (180-146725-15)		10/20/22	12:12 Eastern	Water	Water		X	X	X					2	
SW-5-1' (180-146725-16)		10/20/22	12:17 Eastern	Water	Water		X	X	X					2	
SW-5-13' (180-146725-17)		10/20/22	11:56 Eastern	Water	Water		X	X	X					2	
SW-5-13' (180-146725-18)		10/20/22	12:01 Eastern	Water	Water		X	X	X					2	

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2
 Special Instructions/QC Requirements: _____ Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____

Relinquished by: *mo* Date: *10-26-22* 1800 Company: *eech*
 Relinquished by: **FED EX** Date: *10-27-2022* 0900 Company: *STC*
 Relinquished by: _____ Date: _____ Company: _____

Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks: _____
 Received by: **FED EX** Date/Time: **OCT 27 2022 0900**
 Received by: *Autumn R. Johnson* Date/Time: _____
 Received by: **Autumn R. Johnson** Date/Time: _____



Chain of Custody Record

Client Information (Sub Contract Lab)		Lab PM: Brown, Shail	Carrier Tracking No(s): 180-472464.3
Client Contact Shipping/Receiving		E-Mail: Shail.Brown@et.eurofins.com	State of Origin: Georgia
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): 180-146725-2	
Address: 13715 Rider Trail North,		Due Date Requested: 11/28/2022	
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 Surface Water		SOW#:	
Site:		Site:	

Sample Identification - Client ID (Lab ID)	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)	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)	Total Number of Containers	Special Instructions/Note:
SW-6-1' (180-146725-19)	10/20/22	11:28 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-6-1' (180-146725-20)	10/20/22	11:33 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-6-9' 5' (180-146725-21)	10/20/22	11:03 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-6-9' 5' (180-146725-22)	10/20/22	11:08 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-9-1' (180-146725-23)	10/20/22	10:38 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-9-1' (180-146725-24)	10/20/22	10:53 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-9-4' (180-146725-25)	10/20/22	10:20 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-9-4' (180-146725-26)	10/20/22	10:25 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-10-2' (180-146725-27)	10/20/22	09:46 Eastern	Water	Water	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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Time: Method of Shipment:	
Relinquished by: <i>MD</i>	Date: 10-26-22 1300	Company: <i>ceapex</i>	Date/Time: <i>FED EX</i>
Relinquished by: <i>FED EX</i>	Date/Time: 10-27-2022 09:00	Company: <i>EPSTC</i>	Date/Time: <i>EPSTC</i>
Relinquished by:	Date/Time:	Company:	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)		Sampler:	Lab PM:	Carrier Tracking No(s)	COC No:								
Client Contact: Shipping/Receiving		Brown, Shali	Brown, Shali		180-472464.4								
Company: TestAmerica Laboratories, Inc.		E-Mail: Shali.Brown@et.eurofins.com	State of Origin: Georgia		Page 4 of 6								
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045		Phone: 314-298-8566(Tel) 314-298-8757(Fax)	Accreditations Required (See note)		Job #: 180-146725-2								
Project Name: Plant Watson Ash Pond Surface Water		Project #: 18020186											
Site: SSOW#		SSOW#											
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Solid, O=Other, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9320_Raz28/PreSep_0 Radium 226	9315_Raz26/PreSep_21 Radium 226	Ra226Ra228_GFP/Combined Radium-226 and Radium-228	9315_Raz26/FIELD_FLTRD Radium 226 (Field Filtered)	9320_Raz28/FIELD_FLTRD Radium 228 (Field Filtered)	Total Number of Containers	Special Instructions/Note:
SW-10-2' (180-146725-28)	10/20/22	09:51 Eastern		Water	X	X	X	X	X	X	X	2	
SW-11-1' (180-146725-29)	10/20/22	09:23 Eastern		Water	X	X	X	X	X	X	X	2	
SW-11-1' (180-146725-30)	10/20/22	09:28 Eastern		Water	X	X	X	X	X	X	X	2	
SW-12-1' (180-146725-31)	10/20/22	08:56 Eastern		Water	X	X	X	X	X	X	X	2	
SW-12-1' (180-146725-32)	10/20/22	09:01 Eastern		Water	X	X	X	X	X	X	X	2	
SW-13-1' (180-146725-33)	10/20/22	14:20 Eastern		Water	X	X	X	X	X	X	X	2	
SW-13-1' (180-146725-34)	10/20/22	14:29 Eastern		Water	X	X	X	X	X	X	X	2	
SW-14-1.5' (180-146725-35)	10/20/22	11:36 Eastern		Water	X	X	X	X	X	X	X	2	
SW-14-1.5' (180-146725-36)	10/20/22	11:44 Eastern		Water	X	X	X	X	X	X	X	2	

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
 Other:

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
 Y - Trizma
 Z - other (specify)

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)
 Primary Deliverable Rank: 2

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by: *Mo* Date/Time: 10-26-22 1800 Company: *ARRA*

Relinquished by: *FED EX* Date/Time: *10-26-22 1800* Company: *ARRA*

Relinquished by: *FED EX* Date/Time: *10-26-22 1800* Company: *ARRA*

Custody Seals Intact: Yes No Custody Seal No.:
 Cooler Temperature(s) °C and Other Remarks: Autumn R. Johnson



Chain of Custody Record

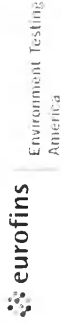


Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s): 180-472464.5
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@et.eurofins.com	State of Origin: Georgia
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):	
Address: 13715 Rider Trail North,		Job #: 180-146725-2	
City: Earth City		Preservation Codes:	
State, Zip: MO, 63045		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:	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		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 Y - Trizma Z - other (specify)	
Email:			
Project #: 18020186			
Site: Plant Watson Ash Pond Surface Water			
Due Date Requested: 11/28/2022			
TAT Requested (days):			
PO #:			
WO #:			
Sample Date		Analysis Requested	
Sample Time		Field Filtered Sample (Yes or No)	
Sample Type (C=comp, G=grab)		Perform MS/MSD (Yes or No)	
Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)		3930_Ra226/PreSep_0_Radium 228	
Preservation Code:		39315_Ra226/PreSep_21_Radium 226	
		Radium-228	
		39315_Ra226/FIELD_FLTRD_Radium 226 (Field Filtered)	
		39320_Ra228/FIELD_FLTRD_Radium 228 (Field Filtered)	
		Total Number of Containers	
Sample Identification - Client ID (Lab ID)			
SW-15-1'5" (180-146725-37)	10/20/22 12:07 Eastern	X	2
SW-15-1'5" (180-146725-38)	10/20/22 12:15 Eastern	X	2
SW-16-1'5" (180-146725-39)	10/20/22 13:06 Eastern	X	2
SW-16-1'5" (180-146725-40)	10/20/22 13:15 Eastern	X	2
DUP-01 (180-146725-41)	10/20/22 15:20 Eastern	X	2
DUP-01 (180-146725-42)	10/20/22 11:51 Eastern	X	2
DUP-02 (180-146725-43)	10/20/22 12:15 Eastern	X	2
DUP-02 (180-146725-44)	10/20/22 12:06 Eastern	X	2
DUP-03 (180-146725-45)	10/20/22 16:20 Eastern	X	2
<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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.</p>			
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>SWO</i>			
Relinquished by: FED EX			
Relinquished by: _____			
Custody Seals Intact: _____			
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> <p><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: <i>Autumn R. Johnson</i></p> <p>Received by: <i>Autumn R. Johnson</i></p> <p>Received by: <i>Autumn R. Johnson</i></p>			
<p>Date/Time: 10/20/22 18:00</p> <p>Date/Time: OCT 27 2022 09:00</p> <p>Date/Time: _____</p>			
<p>Company: <i>SWO</i></p> <p>Company: <i>SWO</i></p> <p>Company: <i>SWO</i></p>			



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

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM	Carrier Tracking No(s)	COC No								
Client Contact Shipping/Receiving		Brown, Shali		180-472464.6								
Company: TestAmerica Laboratories, Inc.		E-Mail: Shali.Brown@et.eurofins.com	State of Origin: Georgia	Page Page 6 of 6								
Address 13715 Rider Trail North,		Job # 180-146725-2										
City Earth City		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchler H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:										
State, Zip MO, 63045		Analysis Requested										
Phone 314-298-8566(Tel) 314-298-8757(Fax)		Total Number of Containers										
Email:		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 Y - Trizma Z - other (specify)										
Project # 18020186		Radium-228 Radium-226 Radium-226 and Radium-228 Radium-226 (Field) Radium-226 (Field) Radium-228 (Field)										
SSOW#		Special Instructions/Note:										
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Swastion, Tissue, Air)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra228/PreSep_0 Radium 228	9315_Ra226/PreSep_21 Radium 226	9320_Ra226/PreSep_G/PC/Combined Radium-226 and Radium-228	9315_Ra226/FIELD_FLTRD Radium 226 (Field)	9320_Ra228/FIELD_FLTRD Radium 228 (Field)
EB-01 (180-146725-46)	10/20/22	07:15 Eastern	Water	Water		X	X	X	X			
FB-01 (180-146725-47)	10/20/22	07:29 Eastern	Water	Water		X	X	X	X			
EB-02 (180-146725-48)	10/20/22	18:01 Eastern	Water	Water		X	X	X	X			
FB-02 (180-146725-49)	10/20/22	18:10 Eastern	Water	Water		X	X	X	X			
DUP-03 (180-146725-50)	10/20/22	16:09 Eastern	Water	Water				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
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: *Mr. Johnson* Date: *10/20/22*
 Relinquished by: *Mr. Johnson* Date: *10/20/22*
 Relinquished by: *Mr. Johnson* Date: *10/20/22*
 Relinquished by: *Mr. Johnson* Date: *10/20/22*
 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: _____

Method of Shipment: _____ Date/Time: _____
 Received by: *Mr. Johnson* Date/Time: *10/20/22*
 Received by: *Mr. Johnson* Date/Time: *10/20/22*
 Received by: *Mr. Johnson* Date/Time: *10/20/22*
 Received by: *Mr. Johnson* Date/Time: *10/20/22*
 Company: _____

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-146725-1

Login Number: 146725

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.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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

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

Generated 12/2/2022 9:06:19 AM

JOB DESCRIPTION

Plant Watson Ash Pond Surface Water

JOB NUMBER

180-146725-2

Eurofins Pittsburgh

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Pittsburgh and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Pittsburgh Project Manager or designee who has signed this report.

PA Lab ID: 02-00416

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

Authorization



Generated
12/2/2022 9:06:19 AM

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



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions/Glossary	8
Certification Summary	9
Sample Summary	10
Method Summary	11
Lab Chronicle	12
Client Sample Results	28
QC Sample Results	78
QC Association Summary	84
Chain of Custody	87
Receipt Checklists	105

Case Narrative

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

Job ID: 180-146725-2

Job ID: 180-146725-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-146725-2

Receipt

The samples were received on 10/22/2022 2:24 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 11 coolers at receipt time were 2.1°C, 2.3°C, 2.3°C, 2.4°C, 2.4°C, 2.5°C, 2.7°C, 2.8°C, 2.8°C, 2.9°C and 2.9°C

Receipt Exceptions

The following samples were listed on the Chain of Custody (COC); however, no samples were received: SW-6-1' (180-146725-19), SW-6-1' (180-146725-20), SW-9-1' (180-146725-23) and SW-9-1' (180-146725-24).

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): DUP-01 (180-146725-41). The container labels list a sample collection time of 15:11 while the COC lists 15:20. The time on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): DUP-01 (180-146725-42). The container labels list a sample collection time of 15:20 while the COC lists 11:51. The time on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): DUP-02 (180-146725-43). The container labels list a sample collection time of 12:06 while the COC lists 12:15. The time on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): DUP-02 (180-146725-44). The container labels list a sample collection time of 12:15 while the COC lists 12:06. The time on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): DUP-03 (180-146725-45). The container labels list a sample collection time of 16:09 while the COC lists 16:20. The time on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): DUP-03 (180-146725-50). The container labels list a sample collection time of 16:20 while the COC lists 16:09. The time on the COC was used.

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 batch 588237 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' (180-146725-1), SW-1-1' (180-146725-2), SW-1-7' (180-146725-3), SW-1-7' (180-146725-4), SW-2-1' (180-146725-5), SW-2-1' (180-146725-6), SW-2-7' (180-146725-7), (LCS 160-588327/2-A), (MB 160-588327/1-A), (680-224291-A-5-A) and (680-224291-B-5-A DU)

Method 9315_Ra226: Radium-226 batch 588329 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-2-7' (180-146725-8), SW-3-1' (180-146725-9), SW-3-1' (180-146725-10), SW-3-4' (180-146725-11), SW-3-4' (180-146725-12), SW-4-1.5' (180-146725-13), SW-4-1.5' (180-146725-14), SW-5-1' (180-146725-15), SW-5-1' (180-146725-16), SW-5-13' (180-146725-17), SW-5-13' (180-146725-18), SW-6-1' (180-146725-19), SW-6-1' (180-146725-20), SW-6-9'.5' (180-146725-21), SW-6-9'.5' (180-146725-22), SW-9-1' (180-146725-23), SW-9-1' (180-146725-24), SW-9-4' (180-146725-25), SW-9-4' (180-146725-26), SW-10-2' (180-146725-27), (LCS 160-588329/2-A), (MB 160-588329/1-A) and (180-146725-B-10-B DU)

Method 9315_Ra226: Radium-226 batch 588391 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. EB-02 (180-146725-48), FB-02 (180-146725-49), DUP-03 (180-146725-50), (LCS 160-588391/2-A), (MB 160-588391/1-A), (280-168096-B-7-A) and (280-168096-C-7-A DU)

Method 9315_Ra226: Radium-226 batch 588332 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

Case Narrative

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

Job ID: 180-146725-2

Job ID: 180-146725-2 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

results are reported with the count date/time applied as the Activity Reference Date. SW-10-2' (180-146725-28), SW-11-1' (180-146725-29), SW-11-1' (180-146725-30), SW-12-1' (180-146725-31), SW-12-1' (180-146725-32), SW-13-1' (180-146725-33), SW-13-1' (180-146725-34), SW-14-1'.5' (180-146725-35), SW-14-1'.5' (180-146725-36), SW-15-1'.5' (180-146725-37), SW-15-1'.5' (180-146725-38), SW-16-1'.5' (180-146725-39), SW-16-1'.5' (180-146725-40), DUP-01 (180-146725-41), DUP-01 (180-146725-42), DUP-02 (180-146725-43), DUP-02 (180-146725-44), DUP-03 (180-146725-45), EB-01 (180-146725-46), FB-01 (180-146725-47), (LCS 160-588332/2-A), (MB 160-588332/1-A) and (180-146725-B-46-A DU)

Method 9315_Ra226: Radium-226 batch 588237 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' (180-146725-1), SW-1-1' (180-146725-2), SW-1-7' (180-146725-3), SW-1-7' (180-146725-4), SW-2-1' (180-146725-5), SW-2-1' (180-146725-6), SW-2-7' (180-146725-7), (LCS 160-588327/2-A), (MB 160-588327/1-A), (680-224291-A-5-A) and (680-224291-B-5-A DU)

Method 9315_Ra226: Radium-226 batch 588329 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-2-7' (180-146725-8), SW-3-1' (180-146725-9), SW-3-1' (180-146725-10), SW-3-4' (180-146725-11), SW-3-4' (180-146725-12), SW-4-1.5' (180-146725-13), SW-4-1.5' (180-146725-14), SW-5-1' (180-146725-15), SW-5-1' (180-146725-16), SW-5-13' (180-146725-17), SW-5-13' (180-146725-18), SW-6-1' (180-146725-19), SW-6-1' (180-146725-20), SW-6-9'.5' (180-146725-21), SW-6-9'.5' (180-146725-22), SW-9-1' (180-146725-23), SW-9-1' (180-146725-24), SW-9-4' (180-146725-25), SW-9-4' (180-146725-26), SW-10-2' (180-146725-27), (LCS 160-588329/2-A), (MB 160-588329/1-A) and (180-146725-B-10-B DU)

Method 9315_Ra226: Radium-226 batch 588391 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. EB-02 (180-146725-48), FB-02 (180-146725-49), DUP-03 (180-146725-50), (LCS 160-588391/2-A), (MB 160-588391/1-A), (280-168096-B-7-A) and (280-168096-C-7-A DU)

Method 9315_Ra226: Radium-226 batch 588332 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-10-2' (180-146725-28), SW-11-1' (180-146725-29), SW-11-1' (180-146725-30), SW-12-1' (180-146725-31), SW-12-1' (180-146725-32), SW-13-1' (180-146725-33), SW-13-1' (180-146725-34), SW-14-1'.5' (180-146725-35), SW-14-1'.5' (180-146725-36), SW-15-1'.5' (180-146725-37), SW-15-1'.5' (180-146725-38), SW-16-1'.5' (180-146725-39), SW-16-1'.5' (180-146725-40), DUP-01 (180-146725-41), DUP-01 (180-146725-42), DUP-02 (180-146725-43), DUP-02 (180-146725-44), DUP-03 (180-146725-45), EB-01 (180-146725-46), FB-01 (180-146725-47), (LCS 160-588332/2-A), (MB 160-588332/1-A) and (180-146725-B-46-A DU)

Method 9320_Ra228: Radium-228 prep batch 160-588331: The Ra-228 laboratory control sample and/or laboratory control sample duplicate (LCS/LCSD) associated with the following samples recovered at 134%: (LCS 160-588331/2-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 62-148 % per method requirements. The LCS is within criteria and no further action is required.

Method 9320_Ra228: Radium-228 prep batch 160-588331: 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-2-7' (180-146725-8), SW-3-1' (180-146725-9), SW-3-1' (180-146725-10), SW-3-4' (180-146725-11), SW-3-4' (180-146725-12), SW-4-1.5' (180-146725-13), SW-4-1.5' (180-146725-14), SW-5-1' (180-146725-15), SW-5-1' (180-146725-16), SW-5-13' (180-146725-17), SW-5-13' (180-146725-18), SW-6-1' (180-146725-19), SW-6-1' (180-146725-20), SW-6-9'.5' (180-146725-21), SW-6-9'.5' (180-146725-22), SW-9-1' (180-146725-23), SW-9-1' (180-146725-24), SW-9-4' (180-146725-25), SW-9-4' (180-146725-26), SW-10-2' (180-146725-27), (LCS 160-588331/2-A), (MB 160-588331/1-A) and (180-146725-B-10-C DU)

Method 9320_Ra228: Radium-228 prep batch 160-588393: 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

Case Narrative

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

Job ID: 180-146725-2

Job ID: 180-146725-2 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

sample results are reported with the count date/time applied as the Activity Reference Date. EB-02 (180-146725-48), FB-02 (180-146725-49), DUP-03 (180-146725-50), (LCS 160-588393/2-A), (MB 160-588393/1-A), (280-168096-B-7-B) and (280-168096-C-7-B DU)

Method 9320_Ra228: Radium-228 prep batch 160-588328: The Ra-228 laboratory control sample (LCS) recovery associated with the following sample(s) is outside the upper QC limit of (148%) indicating a potential positive bias for that analyte. This analyte was not observed above the RL in the associated samples; therefore the sample data is not adversely affected by this excursion. The data have been reported with this narrative. SW-2-1' (180-146725-5)

Method 9320_Ra228: Radium-228 prep batch 160-588328: 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-2-1' (180-146725-5), (LCS 160-588328/2-A), (MB 160-588328/1-A), (680-224291-A-5-B) and (680-224291-B-5-B DU)

Method 9320_Ra228: Radium-228 batch 588339 The 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-11-1' (180-146725-30), SW-12-1' (180-146725-32), SW-13-1' (180-146725-33) and SW-14-1'.5' (180-146725-36). Analytical results are reported with the detection limit achieved.

Method 9320_Ra228: Radium-228 batch 588339 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-10-2' (180-146725-28), SW-11-1' (180-146725-29), SW-11-1' (180-146725-30), SW-12-1' (180-146725-31), SW-12-1' (180-146725-32), SW-13-1' (180-146725-33), SW-13-1' (180-146725-34), SW-14-1'.5' (180-146725-35), SW-14-1'.5' (180-146725-36), SW-15-1'.5' (180-146725-37), SW-15-1'.5' (180-146725-38), SW-16-1'.5' (180-146725-39), SW-16-1'.5' (180-146725-40), DUP-01 (180-146725-41), DUP-01 (180-146725-42), DUP-02 (180-146725-43), DUP-02 (180-146725-44), DUP-03 (180-146725-45), EB-01 (180-146725-46), FB-01 (180-146725-47), (LCS 160-588339/2-A), (MB 160-588339/1-A) and (180-146725-B-46-B DU)

Method 9320_Ra228: Radium-228 Prep Batch 160-590915 The following samples were prepared at a reduced aliquot due to Matrix: SW-1-1' (180-146725-1), SW-1-1' (180-146725-2), SW-1-7' (180-146725-3), SW-1-7' (180-146725-4), SW-2-1' (180-146725-6) and SW-2-7' (180-146725-7). 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 590915 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' (180-146725-1), SW-1-1' (180-146725-2), SW-1-7' (180-146725-3), SW-1-7' (180-146725-4), SW-2-1' (180-146725-6), SW-2-7' (180-146725-7), (LCS 160-590915/2-A), (LCSD 160-590915/3-A) and (MB 160-590915/1-A)

Method 9320_Ra228: Radium-228 prep batch 160-588331: The Ra-228 laboratory control sample and/or laboratory control sample duplicate (LCS/LCSD) associated with the following samples recovered at 134%: (LCS 160-588331/2-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 62-148 % per method requirements. The LCS is within criteria and no further action is required.

Method 9320_Ra228: Radium-228 prep batch 160-588331: 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-2-7' (180-146725-8), SW-3-1' (180-146725-9), SW-3-1' (180-146725-10), SW-3-4' (180-146725-11), SW-3-4' (180-146725-12), SW-4-1.5' (180-146725-13), SW-4-1.5' (180-146725-14), SW-5-1' (180-146725-15), SW-5-1' (180-146725-16), SW-5-13' (180-146725-17), SW-5-13' (180-146725-18), SW-6-1' (180-146725-19), SW-6-1' (180-146725-20), SW-6-9'.5' (180-146725-21), SW-6-9'.5' (180-146725-22), SW-9-1' (180-146725-23), SW-9-1' (180-146725-24), SW-9-4' (180-146725-25), SW-9-4' (180-146725-26), SW-10-2' (180-146725-27), (LCS 160-588331/2-A), (MB 160-588331/1-A) and (180-146725-B-10-C DU)

Case Narrative

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

Job ID: 180-146725-2

Job ID: 180-146725-2 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

Method 9320_Ra228: Radium-228 prep batch 160-588393: 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. EB-02 (180-146725-48), FB-02 (180-146725-49), DUP-03 (180-146725-50), (LCS 160-588393/2-A), (MB 160-588393/1-A), (280-168096-B-7-B) and (280-168096-C-7-B DU)

Method 9320_Ra228: Radium-228 prep batch 160-588328: The Ra-228 laboratory control sample (LCS) recovery associated with the following sample(s) is outside the upper QC limit of (148%) indicating a potential positive bias for that analyte. This analyte was not observed above the RL in the associated samples; therefore the sample data is not adversely affected by this excursion. The data have been reported with this narrative. SW-2-1' (180-146725-5)

Method 9320_Ra228: Radium-228 prep batch 160-588328: 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-2-1' (180-146725-5), (LCS 160-588328/2-A), (MB 160-588328/1-A), (680-224291-A-5-B) and (680-224291-B-5-B DU)

Method 9320_Ra228: Radium-228 batch 588339: The 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-11-1' (180-146725-30), SW-12-1' (180-146725-32), SW-13-1' (180-146725-33) and SW-14-1'.5' (180-146725-36). Analytical results are reported with the detection limit achieved.

Method 9320_Ra228: Radium-228 batch 588339: 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-10-2' (180-146725-28), SW-11-1' (180-146725-29), SW-11-1' (180-146725-30), SW-12-1' (180-146725-31), SW-12-1' (180-146725-32), SW-13-1' (180-146725-33), SW-13-1' (180-146725-34), SW-14-1'.5' (180-146725-35), SW-14-1'.5' (180-146725-36), SW-15-1'.5' (180-146725-37), SW-15-1'.5' (180-146725-38), SW-16-1'.5' (180-146725-39), SW-16-1'.5' (180-146725-40), DUP-01 (180-146725-41), DUP-01 (180-146725-42), DUP-02 (180-146725-43), DUP-02 (180-146725-44), DUP-03 (180-146725-45), EB-01 (180-146725-46), FB-01 (180-146725-47), (LCS 160-588339/2-A), (MB 160-588339/1-A) and (180-146725-B-46-B DU)

Method 9320_Ra228: Radium-228 Prep Batch 160-590915: The following samples were prepared at a reduced aliquot due to Matrix: SW-1-1' (180-146725-1), SW-1-1' (180-146725-2), SW-1-7' (180-146725-3), SW-1-7' (180-146725-4), SW-2-1' (180-146725-6) and SW-2-7' (180-146725-7). 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 590915: 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' (180-146725-1), SW-1-1' (180-146725-2), SW-1-7' (180-146725-3), SW-1-7' (180-146725-4), SW-2-1' (180-146725-6), SW-2-7' (180-146725-7), (LCS 160-590915/2-A), (LCSD 160-590915/3-A) and (MB 160-590915/1-A)

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

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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 Surface Water

Job ID: 180-146725-2

Qualifiers

Rad

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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 Surface Water

Job ID: 180-146725-2

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	06-30-23
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-23
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-24
Washington	State	C592	08-30-23
West Virginia DEP	State	381	12-31-22

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

Sample Summary

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

Job ID: 180-146725-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-146725-1	SW-1-1'	Water	10/20/22 17:09	10/22/22 14:24
180-146725-2	SW-1-1'	Water	10/20/22 17:20	10/22/22 14:24
180-146725-3	SW-1-7'	Water	10/20/22 17:39	10/22/22 14:24
180-146725-4	SW-1-7'	Water	10/20/22 17:47	10/22/22 14:24
180-146725-5	SW-2-1'	Water	10/20/22 16:11	10/22/22 14:24
180-146725-6	SW-2-1'	Water	10/20/22 16:20	10/22/22 14:24
180-146725-7	SW-2-7'	Water	10/20/22 16:49	10/22/22 14:24
180-146725-8	SW-2-7'	Water	10/20/22 16:59	10/22/22 14:24
180-146725-9	SW-3-1'	Water	10/20/22 08:45	10/22/22 14:24
180-146725-10	SW-3-1'	Water	10/20/22 08:53	10/22/22 14:24
180-146725-11	SW-3-4'	Water	10/20/22 09:13	10/22/22 14:24
180-146725-12	SW-3-4'	Water	10/20/22 09:20	10/22/22 14:24
180-146725-13	SW-4-1.5'	Water	10/20/22 10:41	10/22/22 14:24
180-146725-14	SW-4-1.5'	Water	10/20/22 10:49	10/22/22 14:24
180-146725-15	SW-5-1'	Water	10/20/22 12:12	10/22/22 14:24
180-146725-16	SW-5-1'	Water	10/20/22 12:17	10/22/22 14:24
180-146725-17	SW-5-13'	Water	10/20/22 11:56	10/22/22 14:24
180-146725-18	SW-5-13'	Water	10/20/22 12:01	10/22/22 14:24
180-146725-19	SW-6-1'	Water	10/20/22 11:28	10/22/22 14:24
180-146725-20	SW-6-1'	Water	10/20/22 11:33	10/22/22 14:24
180-146725-21	SW-6-9'.5'	Water	10/20/22 11:03	10/22/22 14:24
180-146725-22	SW-6-9'.5'	Water	10/20/22 11:08	10/22/22 14:24
180-146725-23	SW-9-1'	Water	10/20/22 10:38	10/22/22 14:24
180-146725-24	SW-9-1'	Water	10/20/22 10:53	10/22/22 14:24
180-146725-25	SW-9-4'	Water	10/20/22 10:20	10/22/22 14:24
180-146725-26	SW-9-4'	Water	10/20/22 10:25	10/22/22 14:24
180-146725-27	SW-10-2'	Water	10/20/22 09:46	10/22/22 14:24
180-146725-28	SW-10-2'	Water	10/20/22 09:51	10/22/22 14:24
180-146725-29	SW-11-1'	Water	10/20/22 09:23	10/22/22 14:24
180-146725-30	SW-11-1'	Water	10/20/22 09:28	10/22/22 14:24
180-146725-31	SW-12-1'	Water	10/20/22 08:56	10/22/22 14:24
180-146725-32	SW-12-1'	Water	10/20/22 09:01	10/22/22 14:24
180-146725-33	SW-13-1'	Water	10/20/22 14:20	10/22/22 14:24
180-146725-34	SW-13-1'	Water	10/20/22 14:29	10/22/22 14:24
180-146725-35	SW-14-1'.5'	Water	10/20/22 11:36	10/22/22 14:24
180-146725-36	SW-14-1'.5'	Water	10/20/22 11:44	10/22/22 14:24
180-146725-37	SW-15-1'.5'	Water	10/20/22 12:07	10/22/22 14:24
180-146725-38	SW-15-1'.5'	Water	10/20/22 12:15	10/22/22 14:24
180-146725-39	SW-16-1'.5'	Water	10/20/22 13:06	10/22/22 14:24
180-146725-40	SW-16-1'.5'	Water	10/20/22 13:15	10/22/22 14:24
180-146725-41	DUP-01	Water	10/20/22 15:20	10/22/22 14:24
180-146725-42	DUP-01	Water	10/20/22 11:51	10/22/22 14:24
180-146725-43	DUP-02	Water	10/20/22 12:15	10/22/22 14:24
180-146725-44	DUP-02	Water	10/20/22 12:06	10/22/22 14:24
180-146725-45	DUP-03	Water	10/20/22 16:20	10/22/22 14:24
180-146725-46	EB-01	Water	10/20/22 07:15	10/22/22 14:24
180-146725-47	FB-01	Water	10/20/22 07:29	10/22/22 14:24
180-146725-48	EB-02	Water	10/20/22 18:01	10/22/22 14:24
180-146725-49	FB-02	Water	10/20/22 18:10	10/22/22 14:24
180-146725-50	DUP-03	Water	10/20/22 16:09	10/22/22 14:24

Method Summary

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

Job ID: 180-146725-2

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

Protocol References:

None = None

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

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

Laboratory References:

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

Lab Chronicle

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

Job ID: 180-146725-2

Client Sample ID: SW-1-1'
Date Collected: 10/20/22 17:09
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-1
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			756.46 mL	1.0 g	588327	11/03/22 08:04	BMP	EET SL
Total/NA	Analysis	9315		1			591518	11/29/22 11:55	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			753.69 mL	1.0 g	590915	11/22/22 10:21	DJP	EET SL
Total/NA	Analysis	9320		1			591361	11/28/22 12:15	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			591929	12/01/22 23:32	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-1-1'
Date Collected: 10/20/22 17:20
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-2
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			749.40 mL	1.0 g	588327	11/03/22 08:04	BMP	EET SL
Dissolved	Analysis	9315		1			591518	11/29/22 11:55	FLC	EET SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			747.04 mL	1.0 g	590915	11/22/22 10:21	DJP	EET SL
Dissolved	Analysis	9320		1			591361	11/28/22 12:16	FLC	EET SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591928	12/01/22 23:32	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-1-7'
Date Collected: 10/20/22 17:39
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-3
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			749.25 mL	1.0 g	588327	11/03/22 08:04	BMP	EET SL
Total/NA	Analysis	9315		1			591520	11/29/22 11:56	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			753.47 mL	1.0 g	590915	11/22/22 10:21	DJP	EET SL
Total/NA	Analysis	9320		1			591361	11/28/22 12:16	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			591929	12/01/22 23:32	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-1-7'
Date Collected: 10/20/22 17:47
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-4
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			750.91 mL	1.0 g	588327	11/03/22 08:04	BMP	EET SL
Dissolved	Analysis	9315		1			591520	11/29/22 11:56	FLC	EET SL
Instrument ID: GFPCPURPLE										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-146725-2

Client Sample ID: SW-1-7'
Date Collected: 10/20/22 17:47
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-4
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_0			755.98 mL	1.0 g	590915	11/22/22 10:21	DJP	EET SL
Dissolved	Analysis	9320		1			591361	11/28/22 12:16	FLC	EET SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591928	12/01/22 23:32	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-2-1'
Date Collected: 10/20/22 16:11
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-5
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			762.23 mL	1.0 g	588327	11/03/22 08:04	BMP	EET SL
Total/NA	Analysis	9315		1			591520	11/29/22 11:56	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			762.23 mL	1.0 g	588328	11/03/22 08:28	BMP	EET SL
Total/NA	Analysis	9320		1			590419	11/17/22 11:52	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			591929	12/01/22 23:32	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-2-1'
Date Collected: 10/20/22 16:20
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-6
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			749.31 mL	1.0 g	588327	11/03/22 08:04	BMP	EET SL
Dissolved	Analysis	9315		1			591520	11/29/22 11:56	FLC	EET SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			750.68 mL	1.0 g	590915	11/22/22 10:21	DJP	EET SL
Dissolved	Analysis	9320		1			591359	11/28/22 12:13	FLC	EET SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591928	12/01/22 23:32	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-2-7'
Date Collected: 10/20/22 16:49
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-7
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			752.37 mL	1.0 g	588327	11/03/22 08:04	BMP	EET SL
Total/NA	Analysis	9315		1			591520	11/29/22 11:56	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			745.65 mL	1.0 g	590915	11/22/22 10:21	DJP	EET SL
Total/NA	Analysis	9320		1			591359	11/28/22 12:14	FLC	EET SL
Instrument ID: GFPCRED										

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Lab Chronicle

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

Job ID: 180-146725-2

Client Sample ID: SW-2-7'
Date Collected: 10/20/22 16:49
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-7
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			591929	12/01/22 23:32	SCB	EET SL

Client Sample ID: SW-2-7'
Date Collected: 10/20/22 16:59
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-8
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			750.59 mL	1.0 g	588329	11/03/22 08:31	BMP	EET SL
Dissolved	Analysis	9315		1			591518	11/29/22 12:05	FLC	EET SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			750.59 mL	1.0 g	588331	11/03/22 08:56	BMP	EET SL
Dissolved	Analysis	9320		1			590422	11/17/22 16:46	FLC	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591930	12/01/22 23:33	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-3-1'
Date Collected: 10/20/22 08:45
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-9
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			782.06 mL	1.0 g	588329	11/03/22 08:31	BMP	EET SL
Total/NA	Analysis	9315		1			591518	11/29/22 12:05	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			782.06 mL	1.0 g	588331	11/03/22 08:56	BMP	EET SL
Total/NA	Analysis	9320		1			590422	11/17/22 16:46	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			591931	12/01/22 23:34	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-3-1'
Date Collected: 10/20/22 08:53
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-10
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			750.92 mL	1.0 g	588329	11/03/22 08:31	BMP	EET SL
Dissolved	Analysis	9315		1			591518	11/29/22 12:05	FLC	EET SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			750.92 mL	1.0 g	588331	11/03/22 08:56	BMP	EET SL
Dissolved	Analysis	9320		1			590422	11/17/22 16:46	FLC	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591930	12/01/22 23:33	SCB	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-146725-2

Client Sample ID: SW-3-4'
Date Collected: 10/20/22 09:13
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-11
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			771.77 mL	1.0 g	588329	11/03/22 08:31	BMP	EET SL
Total/NA	Analysis	9315		1			591518	11/29/22 12:06	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			771.77 mL	1.0 g	588331	11/03/22 08:56	BMP	EET SL
Total/NA	Analysis	9320		1			590422	11/17/22 16:47	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			591931	12/01/22 23:34	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-3-4'
Date Collected: 10/20/22 09:20
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-12
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			744.81 mL	1.0 g	588329	11/03/22 08:31	BMP	EET SL
Dissolved	Analysis	9315		1			591518	11/29/22 12:06	FLC	EET SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			744.81 mL	1.0 g	588331	11/03/22 08:56	BMP	EET SL
Dissolved	Analysis	9320		1			590422	11/17/22 16:47	FLC	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591930	12/01/22 23:33	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-4-1.5'
Date Collected: 10/20/22 10:41
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-13
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			744.51 mL	1.0 g	588329	11/03/22 08:31	BMP	EET SL
Total/NA	Analysis	9315		1			591518	11/29/22 12:06	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			744.51 mL	1.0 g	588331	11/03/22 08:56	BMP	EET SL
Total/NA	Analysis	9320		1			590422	11/17/22 16:47	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			591931	12/01/22 23:34	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-4-1.5'
Date Collected: 10/20/22 10:49
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-14
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			757.77 mL	1.0 g	588329	11/03/22 08:31	BMP	EET SL
Dissolved	Analysis	9315		1			591518	11/29/22 12:06	FLC	EET SL
Instrument ID: GFPCRED										

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

Job ID: 180-146725-2

Client Sample ID: SW-4-1.5'

Lab Sample ID: 180-146725-14

Date Collected: 10/20/22 10:49

Matrix: Water

Date Received: 10/22/22 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep_0			757.77 mL	1.0 g	588331	11/03/22 08:56	BMP	EET SL
Dissolved	Analysis	9320		1			590422	11/17/22 16:47	FLC	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591930	12/01/22 23:33	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-5-1'

Lab Sample ID: 180-146725-15

Date Collected: 10/20/22 12:12

Matrix: Water

Date Received: 10/22/22 14:24

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			745.07 mL	1.0 g	588329	11/03/22 08:31	BMP	EET SL
Total/NA	Analysis	9315		1			591518	11/29/22 12:06	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			745.07 mL	1.0 g	588331	11/03/22 08:56	BMP	EET SL
Total/NA	Analysis	9320		1			590422	11/17/22 16:47	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			591931	12/01/22 23:34	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-5-1'

Lab Sample ID: 180-146725-16

Date Collected: 10/20/22 12:17

Matrix: Water

Date Received: 10/22/22 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			757.73 mL	1.0 g	588329	11/03/22 08:31	BMP	EET SL
Dissolved	Analysis	9315		1			591518	11/29/22 12:07	FLC	EET SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			757.73 mL	1.0 g	588331	11/03/22 08:56	BMP	EET SL
Dissolved	Analysis	9320		1			590422	11/17/22 16:47	FLC	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591930	12/01/22 23:33	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-5-13'

Lab Sample ID: 180-146725-17

Date Collected: 10/20/22 11:56

Matrix: Water

Date Received: 10/22/22 14:24

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			744.49 mL	1.0 g	588329	11/03/22 08:31	BMP	EET SL
Total/NA	Analysis	9315		1			591518	11/29/22 12:07	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			744.49 mL	1.0 g	588331	11/03/22 08:56	BMP	EET SL
Total/NA	Analysis	9320		1			590422	11/17/22 16:47	FLC	EET SL
Instrument ID: GFPCBLUE										

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

Job ID: 180-146725-2

Client Sample ID: SW-5-13'

Date Collected: 10/20/22 11:56

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-17

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			591931	12/01/22 23:34	SCB	EET SL

Client Sample ID: SW-5-13'

Date Collected: 10/20/22 12:01

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-18

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			752.34 mL	1.0 g	588329	11/03/22 08:31	BMP	EET SL
Dissolved	Analysis	9315		1			591518	11/29/22 14:07	FLC	EET SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			752.34 mL	1.0 g	588331	11/03/22 08:56	BMP	EET SL
Dissolved	Analysis	9320		1			590422	11/17/22 16:47	FLC	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591930	12/01/22 23:33	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-6-1'

Date Collected: 10/20/22 11:28

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-19

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			751.77 mL	1.0 g	588329	11/03/22 08:31	BMP	EET SL
Total/NA	Analysis	9315		1			591518	11/29/22 14:07	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			751.77 mL	1.0 g	588331	11/03/22 08:56	BMP	EET SL
Total/NA	Analysis	9320		1			590422	11/17/22 16:47	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			591931	12/01/22 23:34	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-6-1'

Date Collected: 10/20/22 11:33

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-20

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			764.12 mL	1.0 g	588329	11/03/22 08:31	BMP	EET SL
Dissolved	Analysis	9315		1			591518	11/29/22 14:08	FLC	EET SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			764.12 mL	1.0 g	588331	11/03/22 08:56	BMP	EET SL
Dissolved	Analysis	9320		1			590422	11/17/22 16:48	FLC	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591930	12/01/22 23:33	SCB	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-146725-2

Client Sample ID: SW-6-9'.5'
Date Collected: 10/20/22 11:03
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-21
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			760.14 mL	1.0 g	588329	11/03/22 08:31	BMP	EET SL
Total/NA	Analysis	9315		1			591518	11/29/22 14:08	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			760.14 mL	1.0 g	588331	11/03/22 08:56	BMP	EET SL
Total/NA	Analysis	9320		1			590422	11/17/22 16:48	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			591931	12/01/22 23:34	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-6-9'.5'
Date Collected: 10/20/22 11:08
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-22
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			765.50 mL	1.0 g	588329	11/03/22 08:31	BMP	EET SL
Dissolved	Analysis	9315		1			591518	11/29/22 14:08	FLC	EET SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			765.50 mL	1.0 g	588331	11/03/22 08:56	BMP	EET SL
Dissolved	Analysis	9320		1			590422	11/17/22 16:48	FLC	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591930	12/01/22 23:33	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-9-1'
Date Collected: 10/20/22 10:38
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-23
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			745.70 mL	1.0 g	588329	11/03/22 08:31	BMP	EET SL
Total/NA	Analysis	9315		1			591518	11/29/22 14:08	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			745.70 mL	1.0 g	588331	11/03/22 08:56	BMP	EET SL
Total/NA	Analysis	9320		1			590422	11/17/22 16:48	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			591931	12/01/22 23:34	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-9-1'
Date Collected: 10/20/22 10:53
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-24
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			749.19 mL	1.0 g	588329	11/03/22 08:31	BMP	EET SL
Dissolved	Analysis	9315		1			591518	11/29/22 14:08	FLC	EET SL
Instrument ID: GFPCRED										

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Lab Chronicle

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

Job ID: 180-146725-2

Client Sample ID: SW-9-1'
Date Collected: 10/20/22 10:53
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-24
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			749.19 mL	1.0 g	588331	11/03/22 08:56	BMP	EET SL
Dissolved	Analysis	9320		1			590422	11/17/22 16:48	FLC	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591930	12/01/22 23:33	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-9-4'
Date Collected: 10/20/22 10:20
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-25
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			791.55 mL	1.0 g	588329	11/03/22 08:31	BMP	EET SL
Total/NA	Analysis	9315		1			591518	11/29/22 14:08	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			791.55 mL	1.0 g	588331	11/03/22 08:56	BMP	EET SL
Total/NA	Analysis	9320		1			590420	11/17/22 16:43	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			591931	12/01/22 23:34	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-9-4'
Date Collected: 10/20/22 10:25
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-26
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			769.02 mL	1.0 g	588329	11/03/22 08:31	BMP	EET SL
Dissolved	Analysis	9315		1			591518	11/29/22 14:08	FLC	EET SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			769.02 mL	1.0 g	588331	11/03/22 08:56	BMP	EET SL
Dissolved	Analysis	9320		1			590420	11/17/22 16:44	SCB	EET SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591930	12/01/22 23:33	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-10-2'
Date Collected: 10/20/22 09:46
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-27
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			747.57 mL	1.0 g	588329	11/03/22 08:31	BMP	EET SL
Total/NA	Analysis	9315		1			591518	11/29/22 14:08	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			747.57 mL	1.0 g	588331	11/03/22 08:56	BMP	EET SL
Total/NA	Analysis	9320		1			590420	11/17/22 16:44	SCB	EET SL
Instrument ID: GFPCRED										

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

Job ID: 180-146725-2

Client Sample ID: SW-10-2'

Date Collected: 10/20/22 09:46

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-27

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			591931	12/01/22 23:34	SCB	EET SL

Client Sample ID: SW-10-2'

Date Collected: 10/20/22 09:51

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-28

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			749.04 mL	1.0 g	588332	11/03/22 08:58	BMP	EET SL
Dissolved	Analysis	9315		1			591880	12/01/22 07:06	FLC	EET SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			749.04 mL	1.0 g	588339	11/03/22 09:23	BMP	EET SL
Dissolved	Analysis	9320		1			590568	11/18/22 09:47	FLC	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591926	12/01/22 23:28	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-11-1'

Date Collected: 10/20/22 09:23

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-29

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			773.90 mL	1.0 g	588332	11/03/22 08:58	BMP	EET SL
Total/NA	Analysis	9315		1			591880	12/01/22 07:06	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			773.90 mL	1.0 g	588339	11/03/22 09:23	BMP	EET SL
Total/NA	Analysis	9320		1			590568	11/18/22 09:47	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			591927	12/01/22 23:30	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-11-1'

Date Collected: 10/20/22 09:28

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-30

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			757.35 mL	1.0 g	588332	11/03/22 08:58	BMP	EET SL
Dissolved	Analysis	9315		1			591880	12/01/22 07:06	FLC	EET SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			757.35 mL	1.0 g	588339	11/03/22 09:23	BMP	EET SL
Dissolved	Analysis	9320		1			590568	11/18/22 09:47	FLC	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591926	12/01/22 23:28	SCB	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-146725-2

Client Sample ID: SW-12-1'

Date Collected: 10/20/22 08:56

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-31

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			751.99 mL	1.0 g	588332	11/03/22 08:58	BMP	EET SL
Total/NA	Analysis	9315		1			591880	12/01/22 07:07	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			751.99 mL	1.0 g	588339	11/03/22 09:23	BMP	EET SL
Total/NA	Analysis	9320		1			590568	11/18/22 09:48	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			591927	12/01/22 23:30	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-12-1'

Date Collected: 10/20/22 09:01

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-32

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			746.33 mL	1.0 g	588332	11/03/22 08:58	BMP	EET SL
Dissolved	Analysis	9315		1			591880	12/01/22 07:07	FLC	EET SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			746.33 mL	1.0 g	588339	11/03/22 09:23	BMP	EET SL
Dissolved	Analysis	9320		1			590567	11/18/22 09:49	FLC	EET SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591926	12/01/22 23:28	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-13-1'

Date Collected: 10/20/22 14:20

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-33

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			755.17 mL	1.0 g	588332	11/03/22 08:58	BMP	EET SL
Total/NA	Analysis	9315		1			591880	12/01/22 07:07	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			755.17 mL	1.0 g	588339	11/03/22 09:23	BMP	EET SL
Total/NA	Analysis	9320		1			590567	11/18/22 09:49	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			591927	12/01/22 23:30	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-13-1'

Date Collected: 10/20/22 14:29

Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-34

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			751.55 mL	1.0 g	588332	11/03/22 08:58	BMP	EET SL
Dissolved	Analysis	9315		1			591880	12/01/22 07:07	FLC	EET SL
Instrument ID: GFPCPURPLE										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-146725-2

Client Sample ID: SW-13-1'

Lab Sample ID: 180-146725-34

Date Collected: 10/20/22 14:29

Matrix: Water

Date Received: 10/22/22 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep_0			751.55 mL	1.0 g	588339	11/03/22 09:23	BMP	EET SL
Dissolved	Analysis	9320		1			590567	11/18/22 09:49	FLC	EET SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591926	12/01/22 23:28	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-14-1'.5'

Lab Sample ID: 180-146725-35

Date Collected: 10/20/22 11:36

Matrix: Water

Date Received: 10/22/22 14:24

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			754.23 mL	1.0 g	588332	11/03/22 08:58	BMP	EET SL
Total/NA	Analysis	9315		1			591880	12/01/22 07:07	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			754.23 mL	1.0 g	588339	11/03/22 09:23	BMP	EET SL
Total/NA	Analysis	9320		1			590567	11/18/22 09:49	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			591927	12/01/22 23:30	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-14-1'.5'

Lab Sample ID: 180-146725-36

Date Collected: 10/20/22 11:44

Matrix: Water

Date Received: 10/22/22 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			751.51 mL	1.0 g	588332	11/03/22 08:58	BMP	EET SL
Dissolved	Analysis	9315		1			591880	12/01/22 07:07	FLC	EET SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			751.51 mL	1.0 g	588339	11/03/22 09:23	BMP	EET SL
Dissolved	Analysis	9320		1			590567	11/18/22 09:49	FLC	EET SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591926	12/01/22 23:28	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-15-1'.5'

Lab Sample ID: 180-146725-37

Date Collected: 10/20/22 12:07

Matrix: Water

Date Received: 10/22/22 14:24

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			743.57 mL	1.0 g	588332	11/03/22 08:58	BMP	EET SL
Total/NA	Analysis	9315		1			591880	12/01/22 07:07	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			743.57 mL	1.0 g	588339	11/03/22 09:23	BMP	EET SL
Total/NA	Analysis	9320		1			590567	11/18/22 09:49	FLC	EET SL
Instrument ID: GFPCPURPLE										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-146725-2

Client Sample ID: SW-15-1'.5'

Lab Sample ID: 180-146725-37

Date Collected: 10/20/22 12:07

Matrix: Water

Date Received: 10/22/22 14:24

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			591927	12/01/22 23:30	SCB	EET SL

Client Sample ID: SW-15-1'.5'

Lab Sample ID: 180-146725-38

Date Collected: 10/20/22 12:15

Matrix: Water

Date Received: 10/22/22 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			748.34 mL	1.0 g	588332	11/03/22 08:58	BMP	EET SL
Dissolved	Analysis	9315		1			591880	12/01/22 07:07	FLC	EET SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			748.34 mL	1.0 g	588339	11/03/22 09:23	BMP	EET SL
Dissolved	Analysis	9320		1			590567	11/18/22 09:49	FLC	EET SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591926	12/01/22 23:28	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-16-1'.5'

Lab Sample ID: 180-146725-39

Date Collected: 10/20/22 13:06

Matrix: Water

Date Received: 10/22/22 14:24

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			759.85 mL	1.0 g	588332	11/03/22 08:58	BMP	EET SL
Total/NA	Analysis	9315		1			591876	12/01/22 07:09	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			759.85 mL	1.0 g	588339	11/03/22 09:23	BMP	EET SL
Total/NA	Analysis	9320		1			590569	11/18/22 09:51	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			591927	12/01/22 23:30	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-16-1'.5'

Lab Sample ID: 180-146725-40

Date Collected: 10/20/22 13:15

Matrix: Water

Date Received: 10/22/22 14:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			753.08 mL	1.0 g	588332	11/03/22 08:58	BMP	EET SL
Dissolved	Analysis	9315		1			591876	12/01/22 07:11	FLC	EET SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			753.08 mL	1.0 g	588339	11/03/22 09:23	BMP	EET SL
Dissolved	Analysis	9320		1			590569	11/18/22 09:51	FLC	EET SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591926	12/01/22 23:28	SCB	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-146725-2

Client Sample ID: DUP-01
Date Collected: 10/20/22 15:20
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-41
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			754.28 mL	1.0 g	588332	11/03/22 08:58	BMP	EET SL
Total/NA	Analysis	9315		1			591876	12/01/22 07:11	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			754.28 mL	1.0 g	588339	11/03/22 09:23	BMP	EET SL
Total/NA	Analysis	9320		1			590569	11/18/22 09:51	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			591927	12/01/22 23:30	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01
Date Collected: 10/20/22 11:51
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-42
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			747.30 mL	1.0 g	588332	11/03/22 08:58	BMP	EET SL
Dissolved	Analysis	9315		1			591876	12/01/22 07:11	FLC	EET SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			747.30 mL	1.0 g	588339	11/03/22 09:23	BMP	EET SL
Dissolved	Analysis	9320		1			590569	11/18/22 09:51	FLC	EET SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591926	12/01/22 23:28	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-02
Date Collected: 10/20/22 12:15
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-43
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			754.52 mL	1.0 g	588332	11/03/22 08:58	BMP	EET SL
Total/NA	Analysis	9315		1			591876	12/01/22 07:11	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			754.52 mL	1.0 g	588339	11/03/22 09:23	BMP	EET SL
Total/NA	Analysis	9320		1			590569	11/18/22 09:51	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			591927	12/01/22 23:30	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-02
Date Collected: 10/20/22 12:06
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-44
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			750.75 mL	1.0 g	588332	11/03/22 08:58	BMP	EET SL
Dissolved	Analysis	9315		1			591876	12/01/22 07:11	FLC	EET SL
Instrument ID: GFPCRED										

Lab Chronicle

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

Job ID: 180-146725-2

Client Sample ID: DUP-02
Date Collected: 10/20/22 12:06
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-44
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			750.75 mL	1.0 g	588339	11/03/22 09:23	BMP	EET SL
Dissolved	Analysis	9320		1			590569	11/18/22 09:52	FLC	EET SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591926	12/01/22 23:28	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-03
Date Collected: 10/20/22 16:20
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-45
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			742.71 mL	1.0 g	588332	11/03/22 08:58	BMP	EET SL
Total/NA	Analysis	9315		1			591876	12/01/22 07:11	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			742.71 mL	1.0 g	588339	11/03/22 09:23	BMP	EET SL
Total/NA	Analysis	9320		1			590569	11/18/22 09:52	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			591927	12/01/22 23:30	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-01
Date Collected: 10/20/22 07:15
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-46
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			997.51 mL	1.0 g	588332	11/03/22 08:58	BMP	EET SL
Total/NA	Analysis	9315		1			591876	12/01/22 07:12	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			997.51 mL	1.0 g	588339	11/03/22 09:23	BMP	EET SL
Total/NA	Analysis	9320		1			590569	11/18/22 09:52	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			591927	12/01/22 23:30	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-01
Date Collected: 10/20/22 07:29
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-47
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			997.69 mL	1.0 g	588332	11/03/22 08:58	BMP	EET SL
Total/NA	Analysis	9315		1			591877	12/01/22 07:12	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			997.69 mL	1.0 g	588339	11/03/22 09:23	BMP	EET SL
Total/NA	Analysis	9320		1			590569	11/18/22 09:52	FLC	EET SL
Instrument ID: GFPCRED										

Lab Chronicle

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

Job ID: 180-146725-2

Client Sample ID: FB-01
Date Collected: 10/20/22 07:29
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-47
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			591927	12/01/22 23:30	SCB	EET SL

Client Sample ID: EB-02
Date Collected: 10/20/22 18:01
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-48
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			996.06 mL	1.0 g	588391	11/03/22 13:07	BMP	EET SL
Total/NA	Analysis	9315		1			591519	11/29/22 14:32	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			996.06 mL	1.0 g	588393	11/03/22 13:30	BMP	EET SL
Total/NA	Analysis	9320		1			590420	11/17/22 16:48	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			591933	12/01/22 23:39	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-02
Date Collected: 10/20/22 18:10
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-49
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.08 mL	1.0 g	588391	11/03/22 13:07	BMP	EET SL
Total/NA	Analysis	9315		1			591519	11/29/22 14:32	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1002.08 mL	1.0 g	588393	11/03/22 13:30	BMP	EET SL
Total/NA	Analysis	9320		1			590420	11/17/22 16:48	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			591933	12/01/22 23:39	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-03
Date Collected: 10/20/22 16:09
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-50
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			754.29 mL	1.0 g	588391	11/03/22 13:07	BMP	EET SL
Dissolved	Analysis	9315		1			591519	11/29/22 14:32	FLC	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			754.29 mL	1.0 g	588393	11/03/22 13:30	BMP	EET SL
Dissolved	Analysis	9320		1			590420	11/17/22 16:48	SCB	EET SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			591934	12/01/22 23:40	SCB	EET SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-146725-2

Analyst References:

Lab: EET SL

Batch Type: Prep

BMP = Bailey Pinette

DJP = Dalton Pieper

Batch Type: Analysis

FLC = Fernando Cruz

SCB = Sarah Bernsen



Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-1-1'
 Date Collected: 10/20/22 17:09
 Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-1
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.288		0.145	0.147	1.00	0.187	pCi/L	11/03/22 08:04	11/29/22 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.5		40 - 110					11/03/22 08:04	11/29/22 11:55	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.38		0.558	0.573	1.00	0.733	pCi/L	11/22/22 10:21	11/28/22 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		40 - 110					11/22/22 10:21	11/28/22 12:15	1
Y Carrier	85.2		40 - 110					11/22/22 10:21	11/28/22 12:15	1

Method: TAL-STL 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	1.67		0.577	0.592	5.00	0.733	pCi/L		12/01/22 23:32	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-1-1'
Date Collected: 10/20/22 17:20
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-2
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.136	U	0.105	0.106	1.00	0.156	pCi/L	11/03/22 08:04	11/29/22 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		40 - 110					11/03/22 08:04	11/29/22 11:55	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.894		0.503	0.510	1.00	0.730	pCi/L	11/22/22 10:21	11/28/22 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					11/22/22 10:21	11/28/22 12:16	1
Y Carrier	84.9		40 - 110					11/22/22 10:21	11/28/22 12:16	1

Method: TAL-STL 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		0.514	0.521	5.00	0.730	pCi/L		12/01/22 23:32	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-1-7'
 Date Collected: 10/20/22 17:39
 Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-3
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.179		0.117	0.118	1.00	0.164	pCi/L	11/03/22 08:04	11/29/22 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.7		40 - 110					11/03/22 08:04	11/29/22 11:56	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.697		0.393	0.398	1.00	0.537	pCi/L	11/22/22 10:21	11/28/22 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					11/22/22 10:21	11/28/22 12:16	1
Y Carrier	83.4		40 - 110					11/22/22 10:21	11/28/22 12:16	1

Method: TAL-STL 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	0.876		0.410	0.415	5.00	0.537	pCi/L		12/01/22 23:32	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-1-7'
Date Collected: 10/20/22 17:47
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-4
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.143	U	0.112	0.113	1.00	0.168	pCi/L	11/03/22 08:04	11/29/22 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					11/03/22 08:04	11/29/22 11:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.531	U	0.453	0.456	1.00	0.707	pCi/L	11/22/22 10:21	11/28/22 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.7		40 - 110					11/22/22 10:21	11/28/22 12:16	1
Y Carrier	84.9		40 - 110					11/22/22 10:21	11/28/22 12:16	1

Method: TAL-STL 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	0.673	U	0.467	0.470	5.00	0.707	pCi/L		12/01/22 23:32	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-2-1'
 Date Collected: 10/20/22 16:11
 Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-5
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.279		0.135	0.137	1.00	0.166	pCi/L	11/03/22 08:04	11/29/22 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		40 - 110					11/03/22 08:04	11/29/22 11:56	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.489	U *	0.513	0.515	1.00	0.833	pCi/L	11/03/22 08:28	11/17/22 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		40 - 110					11/03/22 08:28	11/17/22 11:52	1
Y Carrier	86.0		40 - 110					11/03/22 08:28	11/17/22 11:52	1

Method: TAL-STL 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	0.767	U	0.530	0.533	5.00	0.833	pCi/L		12/01/22 23:32	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-2-1'
 Date Collected: 10/20/22 16:20
 Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-6
 Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.284		0.124	0.126	1.00	0.140	pCi/L	11/03/22 08:04	11/29/22 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		40 - 110					11/03/22 08:04	11/29/22 11:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.44		0.575	0.590	1.00	0.759	pCi/L	11/22/22 10:21	11/28/22 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		40 - 110					11/22/22 10:21	11/28/22 12:13	1
Y Carrier	84.5		40 - 110					11/22/22 10:21	11/28/22 12:13	1

Method: TAL-STL 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	1.72		0.588	0.603	5.00	0.759	pCi/L		12/01/22 23:32	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-2-7'
Date Collected: 10/20/22 16:49
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-7
Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.174	U	0.124	0.125	1.00	0.178	pCi/L	11/03/22 08:04	11/29/22 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.4		40 - 110					11/03/22 08:04	11/29/22 11:56	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.84		0.593	0.616	1.00	0.697	pCi/L	11/22/22 10:21	11/28/22 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					11/22/22 10:21	11/28/22 12:14	1
Y Carrier	83.7		40 - 110					11/22/22 10:21	11/28/22 12:14	1

Method: TAL-STL 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	2.02		0.606	0.629	5.00	0.697	pCi/L		12/01/22 23:32	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-2-7'
 Date Collected: 10/20/22 16:59
 Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-8
 Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.354		0.127	0.131	1.00	0.117	pCi/L	11/03/22 08:31	11/29/22 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.4		40 - 110					11/03/22 08:31	11/29/22 12:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.540	U	0.462	0.465	1.00	0.721	pCi/L	11/03/22 08:56	11/17/22 16:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.4		40 - 110					11/03/22 08:56	11/17/22 16:46	1
Y Carrier	85.2		40 - 110					11/03/22 08:56	11/17/22 16:46	1

Method: TAL-STL 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	0.895		0.479	0.483	5.00	0.721	pCi/L		12/01/22 23:33	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-3-1'
 Date Collected: 10/20/22 08:45
 Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-9
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.184		0.0999	0.101	1.00	0.125	pCi/L	11/03/22 08:31	11/29/22 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					11/03/22 08:31	11/29/22 12:05	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.223	U	0.414	0.415	1.00	0.713	pCi/L	11/03/22 08:56	11/17/22 16:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					11/03/22 08:56	11/17/22 16:46	1
Y Carrier	87.1		40 - 110					11/03/22 08:56	11/17/22 16:46	1

Method: TAL-STL 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	0.407	U	0.426	0.427	5.00	0.713	pCi/L		12/01/22 23:34	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-3-1'
 Date Collected: 10/20/22 08:53
 Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-10
 Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.225		0.116	0.118	1.00	0.144	pCi/L	11/03/22 08:31	11/29/22 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					11/03/22 08:31	11/29/22 12:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.84		0.664	0.685	1.00	0.840	pCi/L	11/03/22 08:56	11/17/22 16:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					11/03/22 08:56	11/17/22 16:46	1
Y Carrier	86.0		40 - 110					11/03/22 08:56	11/17/22 16:46	1

Method: TAL-STL 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	2.07		0.674	0.695	5.00	0.840	pCi/L		12/01/22 23:33	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-3-4'
 Date Collected: 10/20/22 09:13
 Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-11
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.260		0.112	0.114	1.00	0.116	pCi/L	11/03/22 08:31	11/29/22 12:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		40 - 110					11/03/22 08:31	11/29/22 12:06	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.595	U	0.489	0.492	1.00	0.763	pCi/L	11/03/22 08:56	11/17/22 16:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		40 - 110					11/03/22 08:56	11/17/22 16:47	1
Y Carrier	84.9		40 - 110					11/03/22 08:56	11/17/22 16:47	1

Method: TAL-STL 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	0.855		0.502	0.505	5.00	0.763	pCi/L		12/01/22 23:34	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-3-4'
 Date Collected: 10/20/22 09:20
 Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-12
 Matrix: Water

Method: SW846 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		0.0860	0.0867	1.00	0.115	pCi/L	11/03/22 08:31	11/29/22 12:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					11/03/22 08:31	11/29/22 12:06	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.05		0.528	0.537	1.00	0.727	pCi/L	11/03/22 08:56	11/17/22 16:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					11/03/22 08:56	11/17/22 16:47	1
Y Carrier	85.6		40 - 110					11/03/22 08:56	11/17/22 16:47	1

Method: TAL-STL 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	1.17		0.535	0.544	5.00	0.727	pCi/L		12/01/22 23:33	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-4-1.5'

Lab Sample ID: 180-146725-13

Date Collected: 10/20/22 10:41

Matrix: Water

Date Received: 10/22/22 14:24

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.245		0.111	0.114	1.00	0.119	pCi/L	11/03/22 08:31	11/29/22 12:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		40 - 110					11/03/22 08:31	11/29/22 12:06	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.33		0.546	0.559	1.00	0.687	pCi/L	11/03/22 08:56	11/17/22 16:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		40 - 110					11/03/22 08:56	11/17/22 16:47	1
Y Carrier	85.2		40 - 110					11/03/22 08:56	11/17/22 16:47	1

Method: TAL-STL 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	1.57		0.557	0.571	5.00	0.687	pCi/L		12/01/22 23:34	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-4-1.5'

Lab Sample ID: 180-146725-14

Date Collected: 10/20/22 10:49

Matrix: Water

Date Received: 10/22/22 14:24

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.220		0.112	0.113	1.00	0.132	pCi/L	11/03/22 08:31	11/29/22 12:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					11/03/22 08:31	11/29/22 12:06	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.65		0.627	0.645	1.00	0.803	pCi/L	11/03/22 08:56	11/17/22 16:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					11/03/22 08:56	11/17/22 16:47	1
Y Carrier	84.5		40 - 110					11/03/22 08:56	11/17/22 16:47	1

Method: TAL-STL 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	1.87		0.637	0.655	5.00	0.803	pCi/L		12/01/22 23:33	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-5-1'
Date Collected: 10/20/22 12:12
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-15
Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.277		0.129	0.131	1.00	0.154	pCi/L	11/03/22 08:31	11/29/22 12:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		40 - 110					11/03/22 08:31	11/29/22 12:06	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.592	U	0.553	0.556	1.00	0.883	pCi/L	11/03/22 08:56	11/17/22 16:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		40 - 110					11/03/22 08:56	11/17/22 16:47	1
Y Carrier	82.6		40 - 110					11/03/22 08:56	11/17/22 16:47	1

Method: TAL-STL 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	0.868	U	0.568	0.571	5.00	0.883	pCi/L		12/01/22 23:34	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-5-1'
 Date Collected: 10/20/22 12:17
 Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-16
 Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.178		0.102	0.104	1.00	0.129	pCi/L	11/03/22 08:31	11/29/22 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.1		40 - 110					11/03/22 08:31	11/29/22 12:07	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.16		0.530	0.541	1.00	0.709	pCi/L	11/03/22 08:56	11/17/22 16:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.1		40 - 110					11/03/22 08:56	11/17/22 16:47	1
Y Carrier	86.4		40 - 110					11/03/22 08:56	11/17/22 16:47	1

Method: TAL-STL 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	1.34		0.540	0.551	5.00	0.709	pCi/L		12/01/22 23:33	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-5-13'

Lab Sample ID: 180-146725-17

Date Collected: 10/20/22 11:56

Matrix: Water

Date Received: 10/22/22 14:24

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.180		0.0965	0.0979	1.00	0.110	pCi/L	11/03/22 08:31	11/29/22 12:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					11/03/22 08:31	11/29/22 12:07	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.29		0.546	0.559	1.00	0.697	pCi/L	11/03/22 08:56	11/17/22 16:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					11/03/22 08:56	11/17/22 16:47	1
Y Carrier	84.9		40 - 110					11/03/22 08:56	11/17/22 16:47	1

Method: TAL-STL 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	1.47		0.554	0.568	5.00	0.697	pCi/L		12/01/22 23:34	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-5-13'

Lab Sample ID: 180-146725-18

Date Collected: 10/20/22 12:01

Matrix: Water

Date Received: 10/22/22 14:24

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.201		0.103	0.104	1.00	0.125	pCi/L	11/03/22 08:31	11/29/22 14:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.6		40 - 110					11/03/22 08:31	11/29/22 14:07	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.18		0.616	0.625	1.00	0.899	pCi/L	11/03/22 08:56	11/17/22 16:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.6		40 - 110					11/03/22 08:56	11/17/22 16:47	1
Y Carrier	85.2		40 - 110					11/03/22 08:56	11/17/22 16:47	1

Method: TAL-STL 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	1.38		0.625	0.634	5.00	0.899	pCi/L		12/01/22 23:33	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-6-1'
 Date Collected: 10/20/22 11:28
 Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-19
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.165		0.101	0.102	1.00	0.134	pCi/L	11/03/22 08:31	11/29/22 14:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					11/03/22 08:31	11/29/22 14:07	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.43		0.556	0.571	1.00	0.693	pCi/L	11/03/22 08:56	11/17/22 16:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					11/03/22 08:56	11/17/22 16:47	1
Y Carrier	85.6		40 - 110					11/03/22 08:56	11/17/22 16:47	1

Method: TAL-STL 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		0.565	0.580	5.00	0.693	pCi/L		12/01/22 23:34	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-6-1'
Date Collected: 10/20/22 11:33
Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-20
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.207		0.102	0.103	1.00	0.108	pCi/L	11/03/22 08:31	11/29/22 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.5		40 - 110					11/03/22 08:31	11/29/22 14:08	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.473	U	0.561	0.563	1.00	0.926	pCi/L	11/03/22 08:56	11/17/22 16:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.5		40 - 110					11/03/22 08:56	11/17/22 16:48	1
Y Carrier	85.2		40 - 110					11/03/22 08:56	11/17/22 16:48	1

Method: TAL-STL 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	0.680	U	0.570	0.572	5.00	0.926	pCi/L		12/01/22 23:33	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-6-9'.5'

Lab Sample ID: 180-146725-21

Date Collected: 10/20/22 11:03

Matrix: Water

Date Received: 10/22/22 14:24

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.239		0.110	0.112	1.00	0.120	pCi/L	11/03/22 08:31	11/29/22 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					11/03/22 08:31	11/29/22 14:08	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.19		0.550	0.561	1.00	0.737	pCi/L	11/03/22 08:56	11/17/22 16:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					11/03/22 08:56	11/17/22 16:48	1
Y Carrier	87.1		40 - 110					11/03/22 08:56	11/17/22 16:48	1

Method: TAL-STL 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	1.43		0.561	0.572	5.00	0.737	pCi/L		12/01/22 23:34	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-6-9'.5'

Lab Sample ID: 180-146725-22

Date Collected: 10/20/22 11:08

Matrix: Water

Date Received: 10/22/22 14:24

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.232		0.107	0.109	1.00	0.113	pCi/L	11/03/22 08:31	11/29/22 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.6		40 - 110					11/03/22 08:31	11/29/22 14:08	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.962		0.503	0.510	1.00	0.701	pCi/L	11/03/22 08:56	11/17/22 16:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.6		40 - 110					11/03/22 08:56	11/17/22 16:48	1
Y Carrier	88.6		40 - 110					11/03/22 08:56	11/17/22 16:48	1

Method: TAL-STL 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	1.19		0.514	0.522	5.00	0.701	pCi/L		12/01/22 23:33	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-9-1'
 Date Collected: 10/20/22 10:38
 Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-23
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.150		0.0944	0.0954	1.00	0.121	pCi/L	11/03/22 08:31	11/29/22 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		40 - 110					11/03/22 08:31	11/29/22 14:08	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.86		0.889	0.957	1.00	0.989	pCi/L	11/03/22 08:56	11/17/22 16:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		40 - 110					11/03/22 08:56	11/17/22 16:48	1
Y Carrier	86.4		40 - 110					11/03/22 08:56	11/17/22 16:48	1

Method: TAL-STL 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	4.01		0.894	0.962	5.00	0.989	pCi/L		12/01/22 23:34	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-9-1'
 Date Collected: 10/20/22 10:53
 Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-24
 Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.225		0.114	0.116	1.00	0.135	pCi/L	11/03/22 08:31	11/29/22 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.5		40 - 110					11/03/22 08:31	11/29/22 14:08	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.98		0.672	0.696	1.00	0.823	pCi/L	11/03/22 08:56	11/17/22 16:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.5		40 - 110					11/03/22 08:56	11/17/22 16:48	1
Y Carrier	86.7		40 - 110					11/03/22 08:56	11/17/22 16:48	1

Method: TAL-STL 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	2.20		0.682	0.706	5.00	0.823	pCi/L		12/01/22 23:33	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-9-4'
 Date Collected: 10/20/22 10:20
 Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-25
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.387		0.141	0.145	1.00	0.147	pCi/L	11/03/22 08:31	11/29/22 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					11/03/22 08:31	11/29/22 14:08	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.90		0.688	0.738	1.00	0.662	pCi/L	11/03/22 08:56	11/17/22 16:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					11/03/22 08:56	11/17/22 16:43	1
Y Carrier	88.2		40 - 110					11/03/22 08:56	11/17/22 16:43	1

Method: TAL-STL 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	3.29		0.702	0.752	5.00	0.662	pCi/L		12/01/22 23:34	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-9-4'
 Date Collected: 10/20/22 10:25
 Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-26
 Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.227		0.108	0.110	1.00	0.125	pCi/L	11/03/22 08:31	11/29/22 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					11/03/22 08:31	11/29/22 14:08	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.02		0.706	0.758	1.00	0.725	pCi/L	11/03/22 08:56	11/17/22 16:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					11/03/22 08:56	11/17/22 16:44	1
Y Carrier	87.9		40 - 110					11/03/22 08:56	11/17/22 16:44	1

Method: TAL-STL 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	3.24		0.714	0.766	5.00	0.725	pCi/L		12/01/22 23:33	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-10-2'

Lab Sample ID: 180-146725-27

Date Collected: 10/20/22 09:46

Matrix: Water

Date Received: 10/22/22 14:24

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.364		0.128	0.132	1.00	0.111	pCi/L	11/03/22 08:31	11/29/22 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					11/03/22 08:31	11/29/22 14:08	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.87		0.596	0.621	1.00	0.695	pCi/L	11/03/22 08:56	11/17/22 16:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					11/03/22 08:56	11/17/22 16:44	1
Y Carrier	90.8		40 - 110					11/03/22 08:56	11/17/22 16:44	1

Method: TAL-STL 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	2.23		0.610	0.635	5.00	0.695	pCi/L		12/01/22 23:34	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-10-2'

Lab Sample ID: 180-146725-28

Date Collected: 10/20/22 09:51

Matrix: Water

Date Received: 10/22/22 14:24

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.283		0.126	0.128	1.00	0.144	pCi/L	11/03/22 08:58	12/01/22 07:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		40 - 110					11/03/22 08:58	12/01/22 07:06	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.90		1.04	1.22	1.00	0.762	pCi/L	11/03/22 09:23	11/18/22 09:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		40 - 110					11/03/22 09:23	11/18/22 09:47	1
Y Carrier	82.6		40 - 110					11/03/22 09:23	11/18/22 09:47	1

Method: TAL-STL 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	7.19		1.05	1.23	5.00	0.762	pCi/L		12/01/22 23:28	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-11-1'

Lab Sample ID: 180-146725-29

Date Collected: 10/20/22 09:23

Matrix: Water

Date Received: 10/22/22 14:24

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.351		0.153	0.156	1.00	0.180	pCi/L	11/03/22 08:58	12/01/22 07:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.8		40 - 110					11/03/22 08:58	12/01/22 07:06	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.88		1.16	1.32	1.00	0.991	pCi/L	11/03/22 09:23	11/18/22 09:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.8		40 - 110					11/03/22 09:23	11/18/22 09:47	1
Y Carrier	82.6		40 - 110					11/03/22 09:23	11/18/22 09:47	1

Method: TAL-STL 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	7.23		1.17	1.33	5.00	0.991	pCi/L		12/01/22 23:30	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-11-1'

Lab Sample ID: 180-146725-30

Date Collected: 10/20/22 09:28

Matrix: Water

Date Received: 10/22/22 14:24

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.308		0.125	0.128	1.00	0.131	pCi/L	11/03/22 08:58	12/01/22 07:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					11/03/22 08:58	12/01/22 07:06	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.99	G	0.838	0.882	1.00	1.02	pCi/L	11/03/22 09:23	11/18/22 09:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					11/03/22 09:23	11/18/22 09:47	1
Y Carrier	82.2		40 - 110					11/03/22 09:23	11/18/22 09:47	1

Method: TAL-STL 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	3.30		0.847	0.891	5.00	1.02	pCi/L		12/01/22 23:28	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-12-1'

Lab Sample ID: 180-146725-31

Date Collected: 10/20/22 08:56

Matrix: Water

Date Received: 10/22/22 14:24

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.496		0.160	0.166	1.00	0.151	pCi/L	11/03/22 08:58	12/01/22 07:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.3		40 - 110					11/03/22 08:58	12/01/22 07:07	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.70		1.06	1.18	1.00	0.897	pCi/L	11/03/22 09:23	11/18/22 09:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.3		40 - 110					11/03/22 09:23	11/18/22 09:48	1
Y Carrier	75.5		40 - 110					11/03/22 09:23	11/18/22 09:48	1

Method: TAL-STL 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	6.20		1.07	1.19	5.00	0.897	pCi/L		12/01/22 23:30	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-12-1'

Lab Sample ID: 180-146725-32

Date Collected: 10/20/22 09:01

Matrix: Water

Date Received: 10/22/22 14:24

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.269		0.141	0.143	1.00	0.183	pCi/L	11/03/22 08:58	12/01/22 07:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.9		40 - 110					11/03/22 08:58	12/01/22 07:07	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.07	G	1.12	1.25	1.00	1.01	pCi/L	11/03/22 09:23	11/18/22 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.9		40 - 110					11/03/22 09:23	11/18/22 09:49	1
Y Carrier	78.9		40 - 110					11/03/22 09:23	11/18/22 09:49	1

Method: TAL-STL 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	6.34		1.13	1.26	5.00	1.01	pCi/L		12/01/22 23:28	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-13-1'

Lab Sample ID: 180-146725-33

Date Collected: 10/20/22 14:20

Matrix: Water

Date Received: 10/22/22 14:24

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.232		0.136	0.137	1.00	0.185	pCi/L	11/03/22 08:58	12/01/22 07:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.1		40 - 110					11/03/22 08:58	12/01/22 07:07	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.35	G	1.01	1.09	1.00	1.04	pCi/L	11/03/22 09:23	11/18/22 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.1		40 - 110					11/03/22 09:23	11/18/22 09:49	1
Y Carrier	79.3		40 - 110					11/03/22 09:23	11/18/22 09:49	1

Method: TAL-STL 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	4.59		1.02	1.10	5.00	1.04	pCi/L		12/01/22 23:30	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-13-1'

Lab Sample ID: 180-146725-34

Date Collected: 10/20/22 14:29

Matrix: Water

Date Received: 10/22/22 14:24

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.200		0.121	0.122	1.00	0.160	pCi/L	11/03/22 08:58	12/01/22 07:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.6		40 - 110					11/03/22 08:58	12/01/22 07:07	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.44		0.858	0.914	1.00	0.846	pCi/L	11/03/22 09:23	11/18/22 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.6		40 - 110					11/03/22 09:23	11/18/22 09:49	1
Y Carrier	81.9		40 - 110					11/03/22 09:23	11/18/22 09:49	1

Method: TAL-STL 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	3.64		0.866	0.922	5.00	0.846	pCi/L		12/01/22 23:28	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-14-1'.5'

Lab Sample ID: 180-146725-35

Date Collected: 10/20/22 11:36

Matrix: Water

Date Received: 10/22/22 14:24

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.166		0.110	0.111	1.00	0.150	pCi/L	11/03/22 08:58	12/01/22 07:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		40 - 110					11/03/22 08:58	12/01/22 07:07	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.90		0.806	0.849	1.00	0.901	pCi/L	11/03/22 09:23	11/18/22 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		40 - 110					11/03/22 09:23	11/18/22 09:49	1
Y Carrier	83.0		40 - 110					11/03/22 09:23	11/18/22 09:49	1

Method: TAL-STL 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	3.07		0.813	0.856	5.00	0.901	pCi/L		12/01/22 23:30	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-14-1'.5'

Lab Sample ID: 180-146725-36

Date Collected: 10/20/22 11:44

Matrix: Water

Date Received: 10/22/22 14:24

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.234		0.145	0.147	1.00	0.202	pCi/L	11/03/22 08:58	12/01/22 07:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.1		40 - 110					11/03/22 08:58	12/01/22 07:07	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.22	G	1.01	1.09	1.00	1.09	pCi/L	11/03/22 09:23	11/18/22 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.1		40 - 110					11/03/22 09:23	11/18/22 09:49	1
Y Carrier	81.5		40 - 110					11/03/22 09:23	11/18/22 09:49	1

Method: TAL-STL 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	4.45		1.02	1.10	5.00	1.09	pCi/L		12/01/22 23:28	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-15-1'.5'

Lab Sample ID: 180-146725-37

Date Collected: 10/20/22 12:07

Matrix: Water

Date Received: 10/22/22 14:24

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.159	U	0.120	0.121	1.00	0.175	pCi/L	11/03/22 08:58	12/01/22 07:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.1		40 - 110					11/03/22 08:58	12/01/22 07:07	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.34		0.844	0.898	1.00	0.833	pCi/L	11/03/22 09:23	11/18/22 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.1		40 - 110					11/03/22 09:23	11/18/22 09:49	1
Y Carrier	78.9		40 - 110					11/03/22 09:23	11/18/22 09:49	1

Method: TAL-STL 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		0.852	0.906	5.00	0.833	pCi/L		12/01/22 23:30	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-15-1'.5'

Lab Sample ID: 180-146725-38

Date Collected: 10/20/22 12:15

Matrix: Water

Date Received: 10/22/22 14:24

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.317		0.139	0.142	1.00	0.159	pCi/L	11/03/22 08:58	12/01/22 07:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.8		40 - 110					11/03/22 08:58	12/01/22 07:07	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.65		0.798	0.835	1.00	0.885	pCi/L	11/03/22 09:23	11/18/22 09:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.8		40 - 110					11/03/22 09:23	11/18/22 09:49	1
Y Carrier	76.6		40 - 110					11/03/22 09:23	11/18/22 09:49	1

Method: TAL-STL 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	2.96		0.810	0.847	5.00	0.885	pCi/L		12/01/22 23:28	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-16-1'.5'

Lab Sample ID: 180-146725-39

Date Collected: 10/20/22 13:06

Matrix: Water

Date Received: 10/22/22 14:24

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.304		0.141	0.143	1.00	0.171	pCi/L	11/03/22 08:58	12/01/22 07:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.6		40 - 110					11/03/22 08:58	12/01/22 07:09	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.01		0.690	0.715	1.00	0.806	pCi/L	11/03/22 09:23	11/18/22 09:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.6		40 - 110					11/03/22 09:23	11/18/22 09:51	1
Y Carrier	81.1		40 - 110					11/03/22 09:23	11/18/22 09:51	1

Method: TAL-STL 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	2.32		0.704	0.729	5.00	0.806	pCi/L		12/01/22 23:30	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: SW-16-1'.5'

Lab Sample ID: 180-146725-40

Date Collected: 10/20/22 13:15

Matrix: Water

Date Received: 10/22/22 14:24

Method: SW846 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		0.0952	0.0964	1.00	0.109	pCi/L	11/03/22 08:58	12/01/22 07:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.3		40 - 110					11/03/22 08:58	12/01/22 07:11	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.15		0.811	0.862	1.00	0.875	pCi/L	11/03/22 09:23	11/18/22 09:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.3		40 - 110					11/03/22 09:23	11/18/22 09:51	1
Y Carrier	80.0		40 - 110					11/03/22 09:23	11/18/22 09:51	1

Method: TAL-STL 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	3.32		0.817	0.867	5.00	0.875	pCi/L		12/01/22 23:28	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: DUP-01

Lab Sample ID: 180-146725-41

Date Collected: 10/20/22 15:20

Matrix: Water

Date Received: 10/22/22 14:24

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.346		0.128	0.132	1.00	0.121	pCi/L	11/03/22 08:58	12/01/22 07:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					11/03/22 08:58	12/01/22 07:11	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.61		0.740	0.778	1.00	0.815	pCi/L	11/03/22 09:23	11/18/22 09:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		40 - 110					11/03/22 09:23	11/18/22 09:51	1
Y Carrier	78.5		40 - 110					11/03/22 09:23	11/18/22 09:51	1

Method: TAL-STL 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	2.95		0.751	0.789	5.00	0.815	pCi/L		12/01/22 23:30	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: DUP-01

Lab Sample ID: 180-146725-42

Date Collected: 10/20/22 11:51

Matrix: Water

Date Received: 10/22/22 14:24

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.181		0.103	0.104	1.00	0.123	pCi/L	11/03/22 08:58	12/01/22 07:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		40 - 110					11/03/22 08:58	12/01/22 07:11	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.79		0.634	0.655	1.00	0.741	pCi/L	11/03/22 09:23	11/18/22 09:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		40 - 110					11/03/22 09:23	11/18/22 09:51	1
Y Carrier	83.0		40 - 110					11/03/22 09:23	11/18/22 09:51	1

Method: TAL-STL 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	1.97		0.642	0.663	5.00	0.741	pCi/L		12/01/22 23:28	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: DUP-02
 Date Collected: 10/20/22 12:15
 Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-43
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.125		0.0909	0.0916	1.00	0.124	pCi/L	11/03/22 08:58	12/01/22 07:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		40 - 110					11/03/22 08:58	12/01/22 07:11	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.02		0.760	0.783	1.00	0.970	pCi/L	11/03/22 09:23	11/18/22 09:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		40 - 110					11/03/22 09:23	11/18/22 09:51	1
Y Carrier	74.4		40 - 110					11/03/22 09:23	11/18/22 09:51	1

Method: TAL-STL 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	2.14		0.765	0.788	5.00	0.970	pCi/L		12/01/22 23:30	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: DUP-02
 Date Collected: 10/20/22 12:06
 Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-44
 Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.183		0.110	0.111	1.00	0.141	pCi/L	11/03/22 08:58	12/01/22 07:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.4		40 - 110					11/03/22 08:58	12/01/22 07:11	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.33		0.631	0.643	1.00	0.864	pCi/L	11/03/22 09:23	11/18/22 09:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.4		40 - 110					11/03/22 09:23	11/18/22 09:52	1
Y Carrier	83.0		40 - 110					11/03/22 09:23	11/18/22 09:52	1

Method: TAL-STL 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	1.51		0.641	0.653	5.00	0.864	pCi/L		12/01/22 23:28	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: DUP-03
 Date Collected: 10/20/22 16:20
 Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-45
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.217		0.124	0.125	1.00	0.161	pCi/L	11/03/22 08:58	12/01/22 07:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.7		40 - 110					11/03/22 08:58	12/01/22 07:11	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.92		0.709	0.730	1.00	0.896	pCi/L	11/03/22 09:23	11/18/22 09:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.7		40 - 110					11/03/22 09:23	11/18/22 09:52	1
Y Carrier	81.9		40 - 110					11/03/22 09:23	11/18/22 09:52	1

Method: TAL-STL 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	2.14		0.720	0.741	5.00	0.896	pCi/L		12/01/22 23:30	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: EB-01

Lab Sample ID: 180-146725-46

Date Collected: 10/20/22 07:15

Matrix: Water

Date Received: 10/22/22 14:24

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0466	U	0.0630	0.0631	1.00	0.106	pCi/L	11/03/22 08:58	12/01/22 07:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.4		40 - 110					11/03/22 08:58	12/01/22 07:12	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.731		0.451	0.456	1.00	0.667	pCi/L	11/03/22 09:23	11/18/22 09:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.4		40 - 110					11/03/22 09:23	11/18/22 09:52	1
Y Carrier	84.1		40 - 110					11/03/22 09:23	11/18/22 09:52	1

Method: TAL-STL 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	0.778		0.455	0.460	5.00	0.667	pCi/L		12/01/22 23:30	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: FB-01

Lab Sample ID: 180-146725-47

Date Collected: 10/20/22 07:29

Matrix: Water

Date Received: 10/22/22 14:24

Method: SW846 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	0.0598	0.0599	1.00	0.110	pCi/L	11/03/22 08:58	12/01/22 07:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		40 - 110					11/03/22 08:58	12/01/22 07:12	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.471	U	0.354	0.357	1.00	0.541	pCi/L	11/03/22 09:23	11/18/22 09:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		40 - 110					11/03/22 09:23	11/18/22 09:52	1
Y Carrier	87.5		40 - 110					11/03/22 09:23	11/18/22 09:52	1

Method: TAL-STL 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	0.494	U	0.359	0.362	5.00	0.541	pCi/L		12/01/22 23:30	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: EB-02
 Date Collected: 10/20/22 18:01
 Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-48
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0423	U	0.0709	0.0710	1.00	0.123	pCi/L	11/03/22 13:07	11/29/22 14:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		40 - 110					11/03/22 13:07	11/29/22 14:32	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.592	U	0.410	0.414	1.00	0.619	pCi/L	11/03/22 13:30	11/17/22 16:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		40 - 110					11/03/22 13:30	11/17/22 16:48	1
Y Carrier	83.4		40 - 110					11/03/22 13:30	11/17/22 16:48	1

Method: TAL-STL 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	0.635		0.416	0.420	5.00	0.619	pCi/L		12/01/22 23:39	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: FB-02

Lab Sample ID: 180-146725-49

Date Collected: 10/20/22 18:10

Matrix: Water

Date Received: 10/22/22 14:24

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0337	U	0.0579	0.0580	1.00	0.129	pCi/L	11/03/22 13:07	11/29/22 14:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					11/03/22 13:07	11/29/22 14:32	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.579	U	0.429	0.432	1.00	0.663	pCi/L	11/03/22 13:30	11/17/22 16:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					11/03/22 13:30	11/17/22 16:48	1
Y Carrier	85.2		40 - 110					11/03/22 13:30	11/17/22 16:48	1

Method: TAL-STL 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	0.545	U	0.433	0.436	5.00	0.663	pCi/L		12/01/22 23:39	1

Client Sample Results

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

Job ID: 180-146725-2

Client Sample ID: DUP-03
 Date Collected: 10/20/22 16:09
 Date Received: 10/22/22 14:24

Lab Sample ID: 180-146725-50
 Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.287		0.125	0.128	1.00	0.144	pCi/L	11/03/22 13:07	11/29/22 14:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					11/03/22 13:07	11/29/22 14:32	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.793	U	0.537	0.542	1.00	0.809	pCi/L	11/03/22 13:30	11/17/22 16:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					11/03/22 13:30	11/17/22 16:48	1
Y Carrier	84.9		40 - 110					11/03/22 13:30	11/17/22 16:48	1

Method: TAL-STL 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	1.08		0.551	0.557	5.00	0.809	pCi/L		12/01/22 23:40	1

QC Sample Results

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

Job ID: 180-146725-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-588327/1-A
Matrix: Water
Analysis Batch: 591519

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588327

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.05560	U	0.0600	0.0602	1.00	0.0957	pCi/L	11/03/22 08:04	11/29/22 11:58	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					11/03/22 08:04	11/29/22 11:58	1

Lab Sample ID: LCS 160-588327/2-A
Matrix: Water
Analysis Batch: 591519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588327

Analyte	LCS		Spike	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
	%Yield	LCS Qualifier	Added	Result	Qual					
Radium-226			11.3	10.15	1.07	1.00	0.122	pCi/L	90	75 - 125
Carrier	LCS		Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							

Lab Sample ID: MB 160-588329/1-A
Matrix: Water
Analysis Batch: 591518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588329

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.01494	U	0.0390	0.0391	1.00	0.0914	pCi/L	11/03/22 08:31	11/29/22 12:04	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					11/03/22 08:31	11/29/22 12:04	1

Lab Sample ID: LCS 160-588329/2-A
Matrix: Water
Analysis Batch: 591518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588329

Analyte	LCS		Spike	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
	%Yield	LCS Qualifier	Added	Result	Qual					
Radium-226			11.3	11.12	1.17	1.00	0.0992	pCi/L	98	75 - 125
Carrier	LCS		Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							

Lab Sample ID: MB 160-588332/1-A
Matrix: Water
Analysis Batch: 591880

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588332

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02584	U	0.0616	0.0616	1.00	0.112	pCi/L	11/03/22 08:58	12/01/22 07:05	1

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QC Sample Results

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

Job ID: 180-146725-2

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

Lab Sample ID: MB 160-588332/1-A
Matrix: Water
Analysis Batch: 591880

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588332

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		40 - 110	11/03/22 08:58	12/01/22 07:05	1

Lab Sample ID: LCS 160-588332/2-A
Matrix: Water
Analysis Batch: 591880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588332

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	11.3	10.65		1.12	1.00	0.131	pCi/L	94	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	72.5		40 - 110

Lab Sample ID: 180-146725-46 DU
Matrix: Water
Analysis Batch: 591876

Client Sample ID: EB-01
Prep Type: Total/NA
Prep Batch: 588332

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.0466	U	-0.00792 0	U	0.0341	1.00	0.0830	pCi/L	0.56	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	88.4		40 - 110

Lab Sample ID: MB 160-588391/1-A
Matrix: Water
Analysis Batch: 591519

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588391

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.03970	U	0.0482	0.0483	1.00	0.118	pCi/L	11/03/22 13:07	11/29/22 14:32	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110	11/03/22 13:07	11/29/22 14:32	1

Lab Sample ID: LCS 160-588391/2-A
Matrix: Water
Analysis Batch: 591519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588391

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	11.3	9.575		1.01	1.00	0.117	pCi/L	84	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	96.4		40 - 110

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QC Sample Results

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

Job ID: 180-146725-2

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

Lab Sample ID: 180-146725-10 DU
Matrix: Water
Analysis Batch: 591518

Client Sample ID: SW-3-1'
Prep Type: Dissolved
Prep Batch: 588329

Analyte	Sample	Sample	DU		Total	RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.225		0.2335		0.105	1.00	0.103	pCi/L	0.04	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	89.1		40 - 110							

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-588328/1-A
Matrix: Water
Analysis Batch: 590422

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588328

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2064	U	0.312	0.313	1.00	0.529	pCi/L	11/03/22 08:28	11/17/22 11:49	1
MB MB										
Carrier	%Yield	Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	97.3		40 - 110		11/03/22 08:28	11/17/22 11:49	1			
Y Carrier	81.9		40 - 110		11/03/22 08:28	11/17/22 11:49	1			

Lab Sample ID: LCS 160-588328/2-A
Matrix: Water
Analysis Batch: 590422

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588328

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
		Result	Qual	Uncert. (2σ+/-)					
Radium-228	8.44	12.66	*	1.63	1.00	0.613	pCi/L	150	75 - 125
LCS LCS									
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	87.0		40 - 110						
Y Carrier	81.5		40 - 110						

Lab Sample ID: MB 160-588331/1-A
Matrix: Water
Analysis Batch: 590422

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588331

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.8322		0.393	0.400	1.00	0.536	pCi/L	11/03/22 08:56	11/17/22 16:46	1
MB MB										
Carrier	%Yield	Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	98.6		40 - 110		11/03/22 08:56	11/17/22 16:46	1			
Y Carrier	85.2		40 - 110		11/03/22 08:56	11/17/22 16:46	1			

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QC Sample Results

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

Job ID: 180-146725-2

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

Lab Sample ID: LCS 160-588331/2-A
Matrix: Water
Analysis Batch: 590422

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588331

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									75	125
Radium-228	8.44	11.29		1.60	1.00	0.712	pCi/L	134	75	125
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	72.0		40 - 110							
Y Carrier	84.5		40 - 110							

Lab Sample ID: MB 160-588339/1-A
Matrix: Water
Analysis Batch: 590569

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588339

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	94.7		40 - 110				11/03/22 09:23	11/18/22 14:50	1	
Y Carrier	83.7		40 - 110				11/03/22 09:23	11/18/22 14:50	1	

Lab Sample ID: LCS 160-588339/2-A
Matrix: Water
Analysis Batch: 590568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588339

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									75	125
Radium-228	16.9	15.80		2.02	1.00	0.753	pCi/L	94	75	125
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	72.5		40 - 110							
Y Carrier	82.2		40 - 110							

Lab Sample ID: 180-146725-46 DU
Matrix: Water
Analysis Batch: 590569

Client Sample ID: EB-01
Prep Type: Total/NA
Prep Batch: 588339

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
										0.08
Radium-228	0.731		0.8038		0.445	1.00	0.633	pCi/L	0.08	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	88.4		40 - 110							
Y Carrier	83.4		40 - 110							

QC Sample Results

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

Job ID: 180-146725-2

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

Lab Sample ID: MB 160-588393/1-A
Matrix: Water
Analysis Batch: 590420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588393

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2949	U	0.355	0.356	1.00	0.586	pCi/L	11/03/22 13:30	11/17/22 16:47	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	94.4		40 - 110		11/03/22 13:30	11/17/22 16:47	1			
Y Carrier	83.4		40 - 110		11/03/22 13:30	11/17/22 16:47	1			

Lab Sample ID: LCS 160-588393/2-A
Matrix: Water
Analysis Batch: 590420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588393

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
		Result	Qual	Uncert. (2σ+/-)					
Radium-228	8.44	10.33		1.39	1.00	0.563	pCi/L	122	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	96.4		40 - 110						
Y Carrier	83.0		40 - 110						

Lab Sample ID: MB 160-590915/1-A
Matrix: Water
Analysis Batch: 591359

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 590915

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.08154	U	0.265	0.266	1.00	0.549	pCi/L	11/22/22 10:21	11/28/22 15:09	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	97.1		40 - 110		11/22/22 10:21	11/28/22 15:09	1			
Y Carrier	84.5		40 - 110		11/22/22 10:21	11/28/22 15:09	1			

Lab Sample ID: LCS 160-590915/2-A
Matrix: Water
Analysis Batch: 591359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 590915

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
		Result	Qual	Uncert. (2σ+/-)					
Radium-228	8.41	9.371		1.24	1.00	0.388	pCi/L	111	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	96.4		40 - 110						
Y Carrier	86.4		40 - 110						

QC Sample Results

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

Job ID: 180-146725-2

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

Lab Sample ID: LCSD 160-590915/3-A
Matrix: Water
Analysis Batch: 591359

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 590915

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER
											Limit
Radium-228	8.41	9.577		1.26	1.00	0.445	pCi/L	114	75 - 125	0.08	1
LCSD LCSD											
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	101		40 - 110								
Y Carrier	82.2		40 - 110								

Lab Sample ID: 180-146725-10 DU
Matrix: Water
Analysis Batch: 590422

Client Sample ID: SW-3-1'
Prep Type: Dissolved
Prep Batch: 588331

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER	
										Limit	
Radium-228	1.84		0.8850		0.541	1.00	0.787	pCi/L		0.78	1
DU DU											
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	89.1		40 - 110								
Y Carrier	85.6		40 - 110								

QC Association Summary

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

Job ID: 180-146725-2

Rad

Prep Batch: 588327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-1	SW-1-1'	Total/NA	Water	PrecSep-21	
180-146725-2	SW-1-1'	Dissolved	Water	PrecSep-21	
180-146725-3	SW-1-7'	Total/NA	Water	PrecSep-21	
180-146725-4	SW-1-7'	Dissolved	Water	PrecSep-21	
180-146725-5	SW-2-1'	Total/NA	Water	PrecSep-21	
180-146725-6	SW-2-1'	Dissolved	Water	PrecSep-21	
180-146725-7	SW-2-7'	Total/NA	Water	PrecSep-21	
MB 160-588327/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-588327/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 588328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-5	SW-2-1'	Total/NA	Water	PrecSep_0	
MB 160-588328/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-588328/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 588329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-8	SW-2-7'	Dissolved	Water	PrecSep-21	
180-146725-9	SW-3-1'	Total/NA	Water	PrecSep-21	
180-146725-10	SW-3-1'	Dissolved	Water	PrecSep-21	
180-146725-11	SW-3-4'	Total/NA	Water	PrecSep-21	
180-146725-12	SW-3-4'	Dissolved	Water	PrecSep-21	
180-146725-13	SW-4-1.5'	Total/NA	Water	PrecSep-21	
180-146725-14	SW-4-1.5'	Dissolved	Water	PrecSep-21	
180-146725-15	SW-5-1'	Total/NA	Water	PrecSep-21	
180-146725-16	SW-5-1'	Dissolved	Water	PrecSep-21	
180-146725-17	SW-5-13'	Total/NA	Water	PrecSep-21	
180-146725-18	SW-5-13'	Dissolved	Water	PrecSep-21	
180-146725-19	SW-6-1'	Total/NA	Water	PrecSep-21	
180-146725-20	SW-6-1'	Dissolved	Water	PrecSep-21	
180-146725-21	SW-6-9'.5'	Total/NA	Water	PrecSep-21	
180-146725-22	SW-6-9'.5'	Dissolved	Water	PrecSep-21	
180-146725-23	SW-9-1'	Total/NA	Water	PrecSep-21	
180-146725-24	SW-9-1'	Dissolved	Water	PrecSep-21	
180-146725-25	SW-9-4'	Total/NA	Water	PrecSep-21	
180-146725-26	SW-9-4'	Dissolved	Water	PrecSep-21	
180-146725-27	SW-10-2'	Total/NA	Water	PrecSep-21	
MB 160-588329/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-588329/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
180-146725-10 DU	SW-3-1'	Dissolved	Water	PrecSep-21	

Prep Batch: 588331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-8	SW-2-7'	Dissolved	Water	PrecSep_0	
180-146725-9	SW-3-1'	Total/NA	Water	PrecSep_0	
180-146725-10	SW-3-1'	Dissolved	Water	PrecSep_0	
180-146725-11	SW-3-4'	Total/NA	Water	PrecSep_0	
180-146725-12	SW-3-4'	Dissolved	Water	PrecSep_0	
180-146725-13	SW-4-1.5'	Total/NA	Water	PrecSep_0	
180-146725-14	SW-4-1.5'	Dissolved	Water	PrecSep_0	

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QC Association Summary

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

Job ID: 180-146725-2

Rad (Continued)

Prep Batch: 588331 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-15	SW-5-1'	Total/NA	Water	PrecSep_0	
180-146725-16	SW-5-1'	Dissolved	Water	PrecSep_0	
180-146725-17	SW-5-13'	Total/NA	Water	PrecSep_0	
180-146725-18	SW-5-13'	Dissolved	Water	PrecSep_0	
180-146725-19	SW-6-1'	Total/NA	Water	PrecSep_0	
180-146725-20	SW-6-1'	Dissolved	Water	PrecSep_0	
180-146725-21	SW-6-9'.5'	Total/NA	Water	PrecSep_0	
180-146725-22	SW-6-9'.5'	Dissolved	Water	PrecSep_0	
180-146725-23	SW-9-1'	Total/NA	Water	PrecSep_0	
180-146725-24	SW-9-1'	Dissolved	Water	PrecSep_0	
180-146725-25	SW-9-4'	Total/NA	Water	PrecSep_0	
180-146725-26	SW-9-4'	Dissolved	Water	PrecSep_0	
180-146725-27	SW-10-2'	Total/NA	Water	PrecSep_0	
MB 160-588331/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-588331/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
180-146725-10 DU	SW-3-1'	Dissolved	Water	PrecSep_0	

Prep Batch: 588332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-28	SW-10-2'	Dissolved	Water	PrecSep-21	
180-146725-29	SW-11-1'	Total/NA	Water	PrecSep-21	
180-146725-30	SW-11-1'	Dissolved	Water	PrecSep-21	
180-146725-31	SW-12-1'	Total/NA	Water	PrecSep-21	
180-146725-32	SW-12-1'	Dissolved	Water	PrecSep-21	
180-146725-33	SW-13-1'	Total/NA	Water	PrecSep-21	
180-146725-34	SW-13-1'	Dissolved	Water	PrecSep-21	
180-146725-35	SW-14-1'.5'	Total/NA	Water	PrecSep-21	
180-146725-36	SW-14-1'.5'	Dissolved	Water	PrecSep-21	
180-146725-37	SW-15-1'.5'	Total/NA	Water	PrecSep-21	
180-146725-38	SW-15-1'.5'	Dissolved	Water	PrecSep-21	
180-146725-39	SW-16-1'.5'	Total/NA	Water	PrecSep-21	
180-146725-40	SW-16-1'.5'	Dissolved	Water	PrecSep-21	
180-146725-41	DUP-01	Total/NA	Water	PrecSep-21	
180-146725-42	DUP-01	Dissolved	Water	PrecSep-21	
180-146725-43	DUP-02	Total/NA	Water	PrecSep-21	
180-146725-44	DUP-02	Dissolved	Water	PrecSep-21	
180-146725-45	DUP-03	Total/NA	Water	PrecSep-21	
180-146725-46	EB-01	Total/NA	Water	PrecSep-21	
180-146725-47	FB-01	Total/NA	Water	PrecSep-21	
MB 160-588332/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-588332/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
180-146725-46 DU	EB-01	Total/NA	Water	PrecSep-21	

Prep Batch: 588339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-28	SW-10-2'	Dissolved	Water	PrecSep_0	
180-146725-29	SW-11-1'	Total/NA	Water	PrecSep_0	
180-146725-30	SW-11-1'	Dissolved	Water	PrecSep_0	
180-146725-31	SW-12-1'	Total/NA	Water	PrecSep_0	
180-146725-32	SW-12-1'	Dissolved	Water	PrecSep_0	
180-146725-33	SW-13-1'	Total/NA	Water	PrecSep_0	

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QC Association Summary

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

Job ID: 180-146725-2

Rad (Continued)

Prep Batch: 588339 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-34	SW-13-1'	Dissolved	Water	PrecSep_0	
180-146725-35	SW-14-1'.5'	Total/NA	Water	PrecSep_0	
180-146725-36	SW-14-1'.5'	Dissolved	Water	PrecSep_0	
180-146725-37	SW-15-1'.5'	Total/NA	Water	PrecSep_0	
180-146725-38	SW-15-1'.5'	Dissolved	Water	PrecSep_0	
180-146725-39	SW-16-1'.5'	Total/NA	Water	PrecSep_0	
180-146725-40	SW-16-1'.5'	Dissolved	Water	PrecSep_0	
180-146725-41	DUP-01	Total/NA	Water	PrecSep_0	
180-146725-42	DUP-01	Dissolved	Water	PrecSep_0	
180-146725-43	DUP-02	Total/NA	Water	PrecSep_0	
180-146725-44	DUP-02	Dissolved	Water	PrecSep_0	
180-146725-45	DUP-03	Total/NA	Water	PrecSep_0	
180-146725-46	EB-01	Total/NA	Water	PrecSep_0	
180-146725-47	FB-01	Total/NA	Water	PrecSep_0	
MB 160-588339/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-588339/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
180-146725-46 DU	EB-01	Total/NA	Water	PrecSep_0	

Prep Batch: 588391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-48	EB-02	Total/NA	Water	PrecSep-21	
180-146725-49	FB-02	Total/NA	Water	PrecSep-21	
180-146725-50	DUP-03	Dissolved	Water	PrecSep-21	
MB 160-588391/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-588391/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 588393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-48	EB-02	Total/NA	Water	PrecSep_0	
180-146725-49	FB-02	Total/NA	Water	PrecSep_0	
180-146725-50	DUP-03	Dissolved	Water	PrecSep_0	
MB 160-588393/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-588393/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 590915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-146725-1	SW-1-1'	Total/NA	Water	PrecSep_0	
180-146725-2	SW-1-1'	Dissolved	Water	PrecSep_0	
180-146725-3	SW-1-7'	Total/NA	Water	PrecSep_0	
180-146725-4	SW-1-7'	Dissolved	Water	PrecSep_0	
180-146725-6	SW-2-1'	Dissolved	Water	PrecSep_0	
180-146725-7	SW-2-7'	Total/NA	Water	PrecSep_0	
MB 160-590915/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-590915/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-590915/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Chain of Custody Record



Client Information
 Client Contact: SCS Contacts
 Company: SCS
 Address: 3535 Colonnade Pkwy Bin S 530 EC
 City: Birmingham
 State/Zip: AL 35243
 Phone: 205-992-6283
 Email: shali.brown@eurofinset.com
 Job #: 1970

Due Date Requested:
 TAT Requested (days):
 PO #:
 WO #:
 Project #: 18020186
 Plant Name: Plant Watson
 Site: Ash Pond (Surface Water)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, A=air)	Field Filtered Sample (Yes or No)	Form Number (Yes or No)	300_28Day Chloride Fluoride Sulfate	6020B/470 Custom 23 (Appl/APPV+9) + Mercury	9315_Ra226 Radium 226	9320_Ra228 Radium 228	Combined RAD	Total Number of Containers	Special Instructions/Note:
SW-1 -1'	10-20-22	1709	G	SW	X	X	X	X	X	X	X	4	Depth = 1ft
SW-1 -1'	10-20-22	1720	G	SW	X	X	X	X	X	X	X	4	Depth = 1ft
SW-1 -7'	10-20-22	1739	G	SW	X	X	X	X	X	X	X	4	Depth = 7ft
SW-1 -7'	10-20-22	1747	G	SW	X	X	X	X	X	X	X	4	Depth = 7ft
SW-2 -1'	10-20-22	1611	G	SW	X	X	X	X	X	X	X	4	Depth = 1ft
SW-2 -1'	10-20-22	1620	G	SW	X	X	X	X	X	X	X	4	Depth = 1ft
SW-2 -7'	10-20-22	1649	G	SW	X	X	X	X	X	X	X	4	Depth = 7ft
SW-2 -7'	10-20-22	1659	G	SW	X	X	X	X	X	X	X	4	Depth = 7ft
SW-3 -1'	10-20-22	0845	G	SW	X	X	X	X	X	X	X	4	Depth = 1ft
SW-3 -1'	10-20-22	0853	G	SW	X	X	X	X	X	X	X	4	Depth = 1ft
SW-3 -4'	10-20-22	0913	G	SW	X	X	X	X	X	X	X	4	Depth = 4ft

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:
 Empty Kit Relinquished by: *sig*
 Relinquished by: *sig*
 Relinquished by: *sig*
 Relinquished by: *sig*
 Date: 10-21-22
 Date: 10-21-22
 Date: 10-21-22
 Date: 10-21-22
 Company: *sig*
 Company: *sig*
 Company: *sig*
 Company: *sig*
 Custody Seals Intact: Yes No
 Custody Seal No.:
 Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record

Client Information Client Contact: <u>Hege</u> SCS Contacts: <u>336-0192</u> Company: <u>SCS</u>		Lab PM: <u>Brown, Shail</u> E-Mail: <u>shail.brown@eurofins.com</u>		Carrier Tracking No(s): Page: <u>2 of 6</u> Job #:		GOC No: Analysis Requested:	
Address: <u>3535 Colonnade Pkwy Bin S 530 EC</u> City: <u>Birmingham</u> State, Zip: <u>AL, 35243</u> Phone: <u>205-992-6283</u> Email:		Due Date Requested: TAT Requested (days): PO #: WO #: Project #: <u>18020186</u> SOW#:		6020B/7470 Custom 23 (App/III/APPV+9) + Mercury 300_28Day Chloride Fluoride Sulfate 9315_Ra226 Radium 226 9320_Ra228 Radium 228 Combined RAD		Total Number of Containers:	
SCS Contacts: Project Name: <u>Ash Pond (Surface Water)</u> Plant: <u>Watson</u> Site:		Matrix (W=water, S=solid, O=water/soil, B=biota, A=air) Sample Type (C=Comp, G=grab) Sample Date Sample Time Preservation Code		Field Filtered Sample (Yes or No) Form Used (Type or No)		Special Instructions/Notes: DEPTH GOES HERE Depth = <u>4ft</u> Depth = <u>1.5ft</u> Depth = <u>1.5ft</u> Depth = Depth = Depth = <u>1ft</u> Depth = <u>1ft</u> Depth = <u>13ft</u> Depth = <u>13ft</u> Depth = <u>1ft</u> Depth = <u>1ft</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		Special Instructions/QC Requirements:		Method of Shipment:	
Empty Kit Relinquished by:		Date:		Received by: <u>D. Watson</u> Date/Time: <u>10-20-22 10:22</u> Company: <u>RAH EW.</u>		Date/Time: <u>10-20-22 09:00</u> Company:	
Relinquished by: <u>Hege</u>		Date/Time:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		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:		Ver: 01/16/2019	



Chain of Custody Record

<p>Client Information Client Contact: SCS Contacts Company: SCS Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email: SCS Contacts Project Name: Plant Watson Site: Ash Pond (Surface Water)</p>		<p>Sampler: <i>Watson/Brett</i> Phone: <i>850-336-0192</i> Lab PIR: Brown, Shail E-Mail: shail.brown@eurofinset.com</p>		<p>Carrier Tracking No(s): COC No.: Page: <i>3 of 6</i> Job #:</p>	
<p>Due Date Requested: TAT Requested (days): PO #: WO #: Project #: SOW#:</p>		<p>Analysis Requested</p>			
<p>Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/></p> <p>Parform MSD (Yes or No) <input checked="" type="checkbox"/></p>		<p>300 28Day Chloride Fluoride Sulfate <input checked="" type="checkbox"/></p> <p>6020B/470 Custom 23 (ApIII/AsPIV+9) + Mercury <input checked="" type="checkbox"/></p>		<p>9315 Ra226 Radium 226 <input checked="" type="checkbox"/></p> <p>9320 Ra228 Radium 228 <input checked="" type="checkbox"/></p> <p>Combined RAD <input checked="" type="checkbox"/></p>	
<p>Sample Identification</p>		<p>Sample Date</p>		<p>Sample Time</p>	
<p>SW-6 - 9'5"</p>		<p>10-20-22</p>		<p>1103</p>	
<p>SW-6 - 9'5"</p>		<p>10-20-22</p>		<p>1108</p>	
<p>SW-9 - 1'</p>		<p>10-20-22</p>		<p>1038</p>	
<p>SW-9 - 1'</p>		<p>10-20-22</p>		<p>1053</p>	
<p>SW-9 - 4'</p>		<p>10-20-22</p>		<p>1020</p>	
<p>SW-9 - 4'</p>		<p>10-20-22</p>		<p>1025</p>	
<p>SW-10 - 2'</p>		<p>10-20-22</p>		<p>0946</p>	
<p>SW-10 - 2'</p>		<p>10-20-22</p>		<p>0951</p>	
<p>SW-10 - 2' <i>RDH 10-21-22</i></p>					
<p>SW-10 - 2' <i>RDH 10-21-22</i></p>					
<p>SW-11 - 1'</p>		<p>10-20-22</p>		<p>0923</p>	
<p>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 Deliverable Requested: I, II, III, IV, Other (specify)</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/Note: DEPTH GOES HERE Special Instructions/Note: Depth = 9'5" ft Depth = 9'5" ft Depth = 1 ft Depth = 1 ft Depth = 4 ft Depth = 4 ft Depth = 2 ft Depth = 2 ft Depth = Depth = Depth = 1 ft</p>	
<p>Empty Kit Relinquished by:</p>		<p>Date:</p>		<p>Time:</p>	
<p>Relinquished by: <i>[Signature]</i></p>		<p>Date/Time: 10-21-22 1022</p>		<p>Company: <i>RDH ENV.</i></p>	
<p>Relinquished by:</p>		<p>Date/Time:</p>		<p>Company:</p>	
<p>Relinquished by:</p>		<p>Date/Time:</p>		<p>Company:</p>	
<p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No</p>		<p>Custody Seal No.:</p>		<p>Cooler Temperature(s) °C and Other Remarks:</p>	

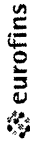


Chain of Custody Record

Client Information Client Contact: SCS Contacts Company: SCS Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email: Project #: 18020186 Plant: Watson Site: Ash Pond (Surface Water)		Lab PM: Brown, Shail E-Mail: shail.brown@eurofinset.com Camer Tracking No(s): Page: 4 of 6 Job #:	
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: SSOW#:		Analysis Requested 6020B/470 Custom 23 (AppIII/APPV+9) + Mercury 300_28Day Chloride Fluoride Sulfate Form MS/MSD (Yes or No) Combined RAD 9315_Ra226 Radium 226 9320_Ra228 Radium 228	
Sample Identification SW-11 -1' SW-11 RDH 10-21-22 SW-11 RDH 10-21-22 SW-12 -1' SW-12 -1' SW-12 RDH 10-21-22 SW-12 RDH 10-21-22 SW-13 -1' SW-13 -1' SW-13 RDH 10-21-22 SW-13 RDH 10-21-22		Field Filtered Sample (Yes or No) Matrix (W=water, S=solid, O=wastewater, A=air) Sample Type (C=comp, G=grab) Sample Time Sample Date Preservation Code: SW-11 G 0928 SW-11 G 0856 SW-12 G 0901 SW-12 G 1420 SW-13 G 1429 SW-13 SW-13	
Special Instructions/Note: Depth = 14' Depth = Depth = Depth = 1ft Depth = 1ft Depth = Depth = Depth = Depth = Depth =		Total Number of Containers X 4 0 0 4 4 0 0 4 4 0 0 4 4 0	
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:		Method of Shipment:	
Relinquished by: Kay Ryan Date: 10-24-22 Company: PWT-EMV		Received by: J. Watson Date/Time: 10-22-22 Company:	
Relinquished by:		Received by:	
Relinquished by:		Received by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:	



Chain of Custody Record



Client Information Client Contact: <i>Rick Brown / Brett Henderson</i> SCS Contacts: <i>850-336-0192</i> Company:		Lab PM: <i>Brown, Shali</i> E-Mail: <i>shali.brown@eurofinset.com</i>		Carrier Tracking No(s):		COC No:		Page: <i>5 of 6</i> Job #:							
Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email:		Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 18020186 SSO#:		Analysis Requested 300 28Day Chloride Fluoride Sulfate 6020B/7470 Custom 23 (Appl/Impl+9) + Mercury 9315 Ra226 Radium 226 9320 Ra228 Radium 228 Combined RAD		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 - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Z - other (specify)		Total Number of Containers:		DEPTH GOES HERE Special Instructions/Note:			
Sample Identification SW-14 - 1.5" SW-14 - 1.5" SW-14 ROK 10-21-22 SW-14 ROK 10-21-22 SW-15 - 1.5" SW-15 - 1.5" SW-15 ROK 10-21-22 SW-15 ROK 10-21-22 SW-16 - 1.5" SW-16 - 1.5" SW-16 ROK 10-21-22		Field Filtered Sample (Yes or No)		Matrix (W=water, S=solid, O=wast/oil, E= tissue, A=air) SW SW SW SW SW SW SW SW SW SW SW SW		Sample Type (C=Comp, G=grab) G G G G G G G G G G G G		Sample Time 1136 1144 1207 1215 1306 1315		Sample Date 10-20-22 10-20-22 10-20-22 10-20-22 10-20-22 10-20-22 10-20-22 10-20-22 10-20-22 10-20-22 10-20-22 10-20-22		Preservation Code: SW SW SW SW SW SW SW SW SW SW SW SW		Depth = 4 4 0 0 4 4 0 0 4 4 0 0	
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		Deliverable Requested: I, II, III, IV, Other (specify)		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:							
Relinquished by: <i>My Hoffman</i> Relinquished by:		Date/Time: 10-21-22 1022 Date/Time:		Company: ROK EM Company:		Received by: <i>D Watson</i> Received by:		Date/Time: 10-22-22 Date/Time:		Company: <i>ROK EM</i> 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:		Method of Shipment:		Time:		Ver: 01/16/2019					



Do not lift using this tag.

Do not lift using this tag.

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

SHIP DATE: 21OCT22
ACTWGT: 65.00 LB
CAD: 6993800/SSFE2322
DIMS: 27x14x14 IN
BILL THIRD PARTY

Part # 156297-435 RFD82 EXP 09/23

TO TESTAMERICA PITTSBURGH

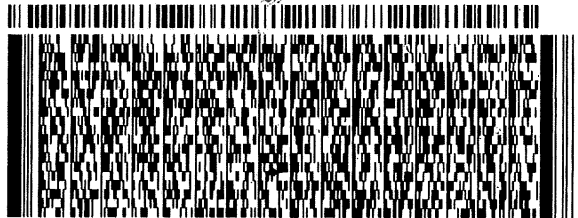
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

(412) 963-7068

REF:

DEPT:



FedEx Express



1081012222222

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

SHIP DATE: 21OCT22
ACTWGT: 65.00 LB
CAD: 6993800/SSFE2322
DIMS: 27x14x14 IN
BILL THIRD PARTY

Part # 156297-435 RFD82 EXP 09/23

TO TESTAMERICA PITTSBURGH

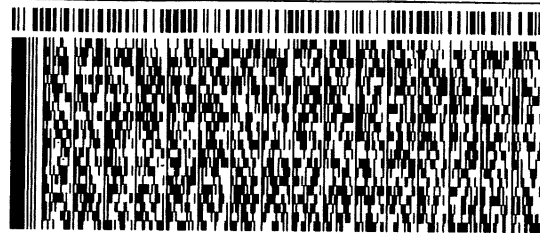
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

(412) 963-7068

REF:

DEPT:



FedEx Express



1081012222222

1 of 11
TRK# 2794 3219 0875
0201
MASTER

SATURDAY 12:00P
PRIORITY OVERNIGHT
AHS
15238
PA-US PIT

XO AGCA



Uncorrected temp
Thermometer ID

20.1 °C

CF Initials

20
Be

2 of 11
MPS# 2794 3219 0886
0263
Mstr# 2794 3219 0875

SATURDAY 12:00P
PRIORITY OVERNIGHT
AHS
15238
PA-US PIT

XO AGCA

Uncorrected temp
Thermometer ID

22.3 °C

CF Initials

20
Be

PT-WL-SR-001 effective 7/26/13

FedEx Express

SDR

FedEx Express

SDR

180-146725 Waybill



Do not lift using this tag.

Do not lift using this tag.

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

SHIP DATE: 21OCT22
ACTWGT: 65.00 LB
CAD: 6993800/SSFE2322
DIMS: 27x14x14 IN
BILL THIRD PARTY

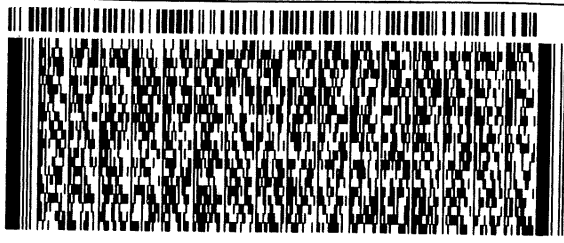
Part # 156297-495 RHOBE2 EXP 09/23
0263/ASW/TTBS

TO TESTAMERICA PITTSBURGH
301 ALPHA DR RIDC PARK
PITTSBURGH PA 15238

(412) 983-7058

REF:

DEPT:



FedEx Express



AN1081012229227

5 of 11

MPS# 0263 2794 3219 0912
Mstr# 2794 3219 0875

SATURDAY 12:00
PRIORITY OVERNIGHT

AHS
15238
US PIT

XO AGCA

Uncorrected temp
Thermometer ID

20.5 °C
20

CF ϕ Initials Be

PT-WI-SR-001 effective 7/26/13



SDR

FedEx Saturday Delivery

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

SHIP DATE: 21OCT22
ACTWGT: 65.00 LB
CAD: 6993800/SSFE2322
DIMS: 27x14x14 IN
BILL THIRD PARTY

TO TESTAMERICA PITTSBURGH
301 ALPHA DR RIDC PARK
PITTSBURGH PA 15238

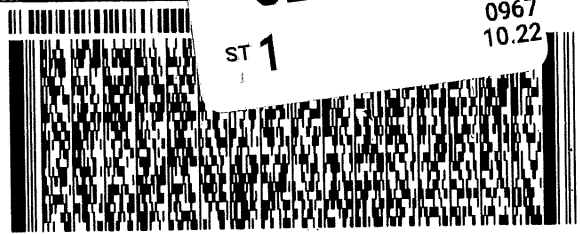
(412) 983-7058

RT 628

1 12:00

B

0967
10.22



FedEx Express



ST 1

10 of 11

MPS# 0263 2794 3219 0967
Mstr# 2794 3219 0875

SATURDAY 12:00
PRIORITY OVERNIGHT

AH
1523
PA-US PI

XO AGCA

Uncorrected temp
Thermometer ID

20.8 °C
20

CF ϕ Initials Be

PT-WI-SR-001 effective 7/26/13



SDR

Do not lift using this tag.

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

SHIP DATE: 21OCT22
ACTWGT: 65.00 LB
CAD: 6993800/SSFE2322
DIMS: 27x14x14 IN
BILL THIRD PARTY

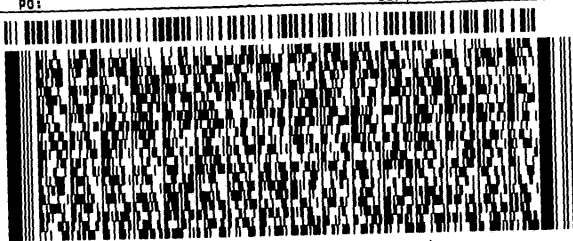
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DEPT: J2242222

TO TESTAMERICA PITTSBURGH

301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

(412) 883-7058
REF: DEPT:



3 of 11
MPS# 2794 3219 0897
0263
Mstr# 2794 3219 0875

SATURDAY 12:00
PRIORITY OVERNIGHT
AHS
15238
PA-US PIT

XO AGCA

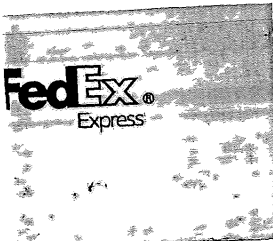
Uncorrected temp
Thermometer ID

2.4 °C
20

CF *φ*

Initials *Be*

PT-WI-SR-001 effective 7/26/13



SDR

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

SHIP DATE: 21OCT22
ACTWGT: 65.00 LB
CAD: 6993800/SSFE2322
DIMS: 27x14x14 IN
BILL THIRD PARTY

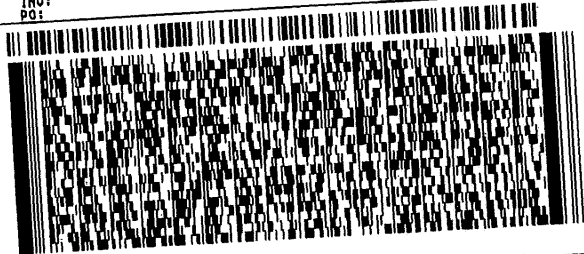
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DEPT: J2242222

TO TESTAMERICA PITTSBURGH

301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

(412) 883-7058
REF: DEPT:



4 of 11
MPS# 2794 3219 0901
0263
Mstr# 2794 3219 0875

0201

SATURDAY 12:00
PRIORITY OVERNIGHT
AHS
15238
PA-US PIT

XO AGCA

Uncorrected temp
Thermometer ID

2.8 °C
20

CF *φ*

Initials *Be*



SDR

Do not lift using this tag.

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

SHIP DATE: 21OCT22
ACTWGT: 65.00 LB
CAD: 6993800/SSFE2322
DIMS: 27x14x14 IN

BILL THIRD PARTY

Part # 156297-435 FRD82 EXP 09/23

TO TESTAMERICA PITTSBURGH

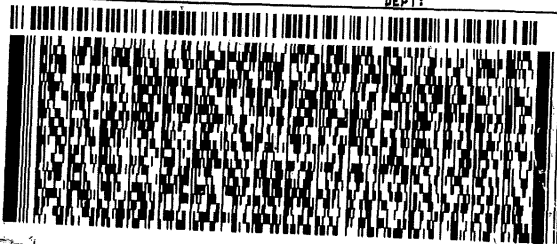
301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238

(412) 863-7068

REF:

DEPT:



FedEx Express



8 of 11

MPS# 2794 3219 0945

Mstr# 2794 3219 0875

XO AGCA

SATURDAY 12:00
PRIORITY OVERNIGHT

AHS
15238

PA-US PIT

Uncorrected temp
thermometer ID

20.3 °C

CF ϕ Initials Be

PT-WI-SR-001 effective 7/26/13

Thermometer ID

CF Initials

PT-WI-SR-001 effective 7/26/13

NO COC



Do not lift using this tag.

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

SHIP DATE: 21OCT22
ACTWGT: 65.00 LB
CAD: 6993800/SSFE2322
DIMS: 27x14x14 IN

BILL THIRD PARTY

Part # 156297-435 FRD82 EXP 09/23

TO TESTAMERICA PITTSBURGH

301 ALPHA DR RIDC PARK

PITTSBURGH PA 15238



FedEx Express



RT 628

1 12:00

B

7 of 11
MPS# 2794 3219 0934

Mstr# 2794 3219 0875

XO AGCA

0934
10.22

00P
GHT

AHS
15238

PA-US PIT

Uncorrected temp
Thermometer ID

20.9 °C

CF ϕ Initials Be

PT-WI-SR-001 effective 7/26/13

FedEx Express

SDR

FedEx

Do not lift using this tag.

Do not lift using this tag.

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

SHIP DATE: 21OCT22
ACTWGT: 65.00 LB
CAD: 6993800/SSFE2322
DIMS: 27x14x14 IN
BILL THIRD PARTY

Part # 156297-435 RRD82 EXP 09/23

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

SHIP DATE: 21OCT22
ACTWGT: 65.00 LB
CAD: 6993800/SSFE2322
DIMS: 27x14x14 IN
BILL THIRD PARTY

TO TESTAMERICA PITTSBURGH
301 ALPHA DR RIDC PARK
PITTSBURGH PA 15238

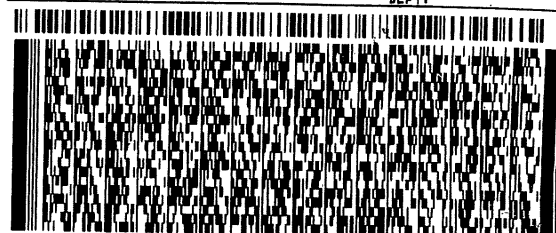
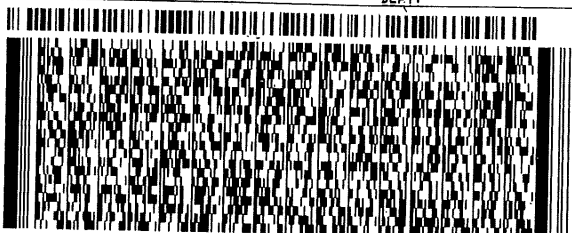
TO TESTAMERICA PITTSBURGH
301 ALPHA DR RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058
INU:
PO:

REF:
DEPT:

(412) 963-7058
INU:
PO:

REF:
DEPT:



11 of 11
MPS# 2794 3219 0978
0263
Mstr# 2794 3219 0875
XO AGCA

SATURDAY 12:00P
PRIORITY OVERNIGHT
AHS
15238
PA-US PIT

9 of 11
MPS# 2794 3219 0956
0263
Mstr# 2794 3219 0875
XO AGCA

SATURDAY 12:00P
PRIORITY OVERNIGHT
AHS
15238
PA-US PIT

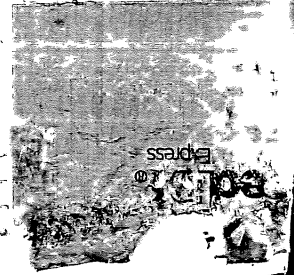
Uncorrected temp Thermometer ID 2.7 °C
CF φ Initials BL

Uncorrected temp Thermometer ID 2.4 °C
CF φ Initials BL

FedEx Express

SDR

SDR



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Part # 159469-434 NTW EXP 09/23

ORIGIN ID:GTYA (850) 336-0192
RICK HAGENDORFER
RDH SAMPLING
10998A COUNTY ROAD 97
ELBERTA, AL 36530
UNITED STATES US

SHIP DATE: 13OCT22
ACTWGT: 50.00 LB MAN
CAD: 0129689/CAFE3511

TO

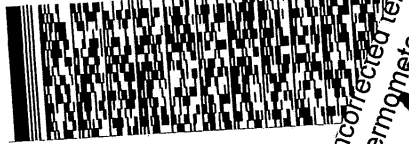
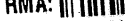
TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238-21

(412) 983-7068

REF:

DEPT:

RMA:



FedEx

TRK# 5881 4550 7741
0221

XO AGCA

FedEx
Express



THURSDAY 12:00P
CITY OVERNIGHT

15238

PA-US

PI

PI WI-SR-001 effective 1/26/13

Uncorrected temp
Thermometer ID

2.9 °C

CF Ø Initials BE

PI WI-SR-001 effective 7/26/13

#4573711 10/21 58111/AC5F/FE2D

FedEx®

ag.

FedEx®

ORIGINATOR
SHIPPING CENTER
EUROFINS LABORATORY
2425 NEW HOLLAND PIKE

DOCT22
9 LB
SAFE3616
14 IN
RT

LANCASTER, PA 17601
UNITED STATES US

TO **SAMPLE RECEIVING**
EUROFINS ENVIRONMENT TESTING
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068 X 444
INV: REF: DEPT: PO:

RT 98

10:30 A
76
10



180-146725 Waybill



J222022032801 BY

TUE - 25 OCT 10:30A
CITY OVERNIGHT

TRK# 5435 6266 76
0201

Thermometer ID

NA AGI

CF **NO COC** Initials
PT-W-SR-001 effective 7/20/13

Part # 156148-434 MTW EXP 10/22

Uncorrected temp	<u>20.8</u> °C
Thermometer ID	<u>19</u>
CF <u>02</u> Initials	<u>Be</u>

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

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s): 180-472464.1
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@et.eurofins.com	State of Origin: Georgia
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note)	
Address: 13715 Rider Trail North,		Due Date Requested: 11/28/2022	
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 Surface Water		SSOW#:	
Site:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Solid, O=Soil, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9320_Ra228/PreSep_0 Radium 228	9315_Ra228/PreSep_21 Radium 226	Ra226Ra228 GPC/ Combined Radium 226 and	9315_Ra228/FIELD_FLTRD Radium 226 (Field Filtered)	9320_Ra228/FIELD_FLTRD Radium 228 (Field Filtered)	Total Number of Containers	Special Instructions/Note:
SW-1-1' (180-146725-1)	10/20/22	17:09 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-1-1' (180-146725-2)	10/20/22	17:20 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-1-7' (180-146725-3)	10/20/22	17:39 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-1-7' (180-146725-4)	10/20/22	17:47 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-2-1' (180-146725-5)	10/20/22	16:11 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-2-1' (180-146725-6)	10/20/22	16:20 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-2-7' (180-146725-7)	10/20/22	16:49 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-2-7' (180-146725-8)	10/20/22	16:59 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-3-1' (180-146725-9)	10/20/22	08:45 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Primary Deliverable Rank: 2
 Date: _____
 Empty Kit Relinquished by: _____
 Relinquished by: *WCO* Date/Time: 10-26-22 1800
 Relinquished by: **FED EX** Date/Time: _____
 Relinquished by: **FED EX** Date/Time: _____
 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: **FED EX** Date/Time: _____
 Received by: *Autumn R. Johnson* Date/Time: OCT 27 2022 0900
 Received by: **Autumn R. Johnson** Date/Time: _____
 Company: _____
 Company: _____
 Company: _____

Chain of Custody Record

Client Information (Sub Contract Lab)		Lab PM: Brown, Shail	Carrier Tracking No(s): 180-472464.2
Client Contact: Shipping/Receiving		E-Mail: Shail.Brown@et.eurofins.com	State of Origin: Georgia
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): 180-146725-2	
Address: 13715 Rider Trail North,		COC No: 180-472464.2	
City: Earth City		Page: Page 2 of 6	
State, Zip: MO, 63045		Job #: 180-146725-2	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		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 Y - Trizma Z - other (specify) Other:	
Email:		Analysis Requested	
Project #: 18020186		Total Number of Containers	
SOW#:		Field Filtered Sample (Yes or No)	
Due Date Requested: 11/28/2022		Perform MMS/MSD (Yes or No)	
TAT Requested (days):		Radium-226	
PO #:		9315_Ra226/PreSep_21 Radium 226	
WO #:		Radium-228	
Project Name: Plant Watson Ash Pond Surface Water		9320_Ra226/PreSep_0 Radium 228	
Site:		9315_Ra226/FIELD_FLTRD Radium 226 (Field Filtered)	
Sample Identification - Client ID (Lab ID)		9320_Ra226/FIELD_FLTRD Radium 228 (Field Filtered)	
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wast/oli, BT=Issue, A=Air)
10/20/22	08:53 Eastern	Water	Water
10/20/22	09:13 Eastern	Water	Water
10/20/22	09:20 Eastern	Water	Water
10/20/22	10:41 Eastern	Water	Water
10/20/22	10:49 Eastern	Water	Water
10/20/22	12:12 Eastern	Water	Water
10/20/22	12:17 Eastern	Water	Water
10/20/22	11:56 Eastern	Water	Water
10/20/22	12:01 Eastern	Water	Water
10/20/22	Eastern	Water	Water

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *mo* Date: *10-26-22 1800*
 Relinquished by: **FED EX** Date: *10-26-22 1800*
 Relinquished by: **FED EX** Date: *10-26-22 1800*

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: **FED EX** Date/Time: **OCT 27 2022 0900**
 Received by: *Autumn R. Johnson* Date/Time: **OCT 27 2022 0900**
 Received by: **Autumn R. Johnson** Date/Time: **OCT 27 2022 0900**

Cooler Temperature(s) °C and Other Remarks: _____



Chain of Custody Record

Client Information (Sub Contract Lab)		Lab PM: Brown, Shail	Carrier Tracking No(s): 180-472464.3
Client Contact Shipping/Receiving		E-Mail: Shail.Brown@et.eurofins.com	State of Origin: Georgia
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): 180-146725-2	
Address: 13715 Rider Trail North,		Due Date Requested: 11/28/2022	
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 Surface Water		SOW#:	
Site:		Site:	

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=leachate, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested							Total Number of Containers	Special Instructions/Note:
							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)	9320_Ra228/Field_FLTRD Radium 228 (Field Filtered)	9315_Ra226/Field_FLTRD Radium 226 (Field Filtered)		
SW-6-1' (180-146725-19)	10/20/22	11:28 Eastern	Water	Water	X	X	X	X	X	X	X	X	2		
SW-6-1' (180-146725-20)	10/20/22	11:33 Eastern	Water	Water	X	X	X	X	X	X	X	X	2		
SW-6-9' 5' (180-146725-21)	10/20/22	11:03 Eastern	Water	Water	X	X	X	X	X	X	X	X	2		
SW-6-9' 5' (180-146725-22)	10/20/22	11:08 Eastern	Water	Water	X	X	X	X	X	X	X	X	2		
SW-9-1' (180-146725-23)	10/20/22	10:38 Eastern	Water	Water	X	X	X	X	X	X	X	X	2		
SW-9-1' (180-146725-24)	10/20/22	10:53 Eastern	Water	Water	X	X	X	X	X	X	X	X	2		
SW-9-4' (180-146725-25)	10/20/22	10:20 Eastern	Water	Water	X	X	X	X	X	X	X	X	2		
SW-9-4' (180-146725-26)	10/20/22	10:25 Eastern	Water	Water	X	X	X	X	X	X	X	X	2		
SW-10-2' (180-146725-27)	10/20/22	09:48 Eastern	Water	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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Time: Method of Shipment:	
Relinquished by: <i>MD</i>	Date: 10-26-22 1300	Company: <i>ceapex</i>	Date/Time: <i>10/27/2022 09:00</i>
Relinquished by: FED EX	Date/Time:	Company:	Date/Time:
Relinquished by:	Date/Time:	Company:	Date/Time:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No:	Received by: <i>Autumn R. Johnson</i>	Company: <i>ceapex</i>
Cooler Temperature(s) °C and Other Remarks:		Received by: <i>Autumn R. Johnson</i>	



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s): 180-472464.4										
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@et.eurofins.com	State of Origin: Georgia										
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): 180-146725-2											
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045		Due Date Requested: 11/28/2022											
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		TAT Requested (days):											
Email:		PO #:											
Project #: 18020186		WO #:											
Project Name: Plant Watson Ash Pond Surface Water		SSOW#:											
Site:													
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, T=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9320_Raz28/PreSep_0 Radium 226	9315_Raz26/PreSep_21 Radium 226	Ra226Ra228_GFP/Combined Radium-226 and Radium-228	9315_Raz26/FIELD_FLTRD Radium 226 (Field Filtered)	9320_Raz28/FIELD_FLTRD Radium 228 (Field Filtered)	Total Number of Containers	Special Instructions/Note:
SW-10-2' (180-146725-28)	10/20/22	09:51 Eastern		Water	X	X	X	X	X	X	X	2	
SW-11-1' (180-146725-29)	10/20/22	09:23 Eastern		Water	X	X	X	X	X	X	X	2	
SW-11-1' (180-146725-30)	10/20/22	09:28 Eastern		Water	X	X	X	X	X	X	X	2	
SW-12-1' (180-146725-31)	10/20/22	08:56 Eastern		Water	X	X	X	X	X	X	X	2	
SW-12-1' (180-146725-32)	10/20/22	09:01 Eastern		Water	X	X	X	X	X	X	X	2	
SW-13-1' (180-146725-33)	10/20/22	14:20 Eastern		Water	X	X	X	X	X	X	X	2	
SW-13-1' (180-146725-34)	10/20/22	14:29 Eastern		Water	X	X	X	X	X	X	X	2	
SW-14-1'5' (180-146725-35)	10/20/22	11:36 Eastern		Water	X	X	X	X	X	X	X	2	
SW-14-1'5' (180-146725-36)	10/20/22	11:44 Eastern		Water	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/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) _____
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Mo* Date: *10-26-22 1800* Company: *ARRA*
 Relinquished by: *FED EX* Date/Time: _____ Company: _____
 Relinquished by: *FED EX* Date/Time: _____ Company: _____
 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: *FED EX* Date/Time: _____ Company: _____
 Received by: *Autumn R. Johnson* Date/Time: *09-27-2022 0900* Company: *CD-5TC*
 Received by: _____ Date/Time: _____ Company: _____
 Cooler Temperature(s) °C and Other Remarks: _____



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s): 180-472464.5
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@et.eurofins.com	State of Origin: Georgia
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):	
Address: 13715 Rider Trail North,		Job #: 180-146725-2	
City: Earth City		Preservation Codes:	
State, Zip: MO, 63045		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 W - pH 4-5 K - EDTA L - EDA Y - Trizma Z - other (specify) Other:	
Project Name: Plant Watson Ash Pond Surface Water		Project #: 18020186	
Site:		SSOW#:	
Due Date Requested: 11/28/2022		TAT Requested (days):	
PO #:		WO #:	
Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)		Field Filtered Sample (Yes or No)	
Sample Type (C=comp, G=grab)		Perform MS/MSD (Yes or No)	
Sample Time		Preservation Code:	
Sample Date		3915_Ra226/PreSep_21 Radium 226	
Sample Identification - Client ID (Lab ID)		Radium-226	
SW-15-1'5" (180-146725-37)		3915_Ra226/FIELD_FLTRD Radium 226 (Field)	
SW-15-1'5" (180-146725-38)		3915_Ra226/FIELD_FLTRD Radium 226 (Field)	
SW-16-1'5" (180-146725-39)		3915_Ra226/FIELD_FLTRD Radium 226 (Field)	
SW-16-1'5" (180-146725-40)		3915_Ra226/FIELD_FLTRD Radium 226 (Field)	
DUP-01 (180-146725-41)		3915_Ra226/FIELD_FLTRD Radium 226 (Field)	
DUP-01 (180-146725-42)		3915_Ra226/FIELD_FLTRD Radium 226 (Field)	
DUP-02 (180-146725-43)		3915_Ra226/FIELD_FLTRD Radium 226 (Field)	
DUP-02 (180-146725-44)		3915_Ra226/FIELD_FLTRD Radium 226 (Field)	
DUP-03 (180-146725-45)		3915_Ra226/FIELD_FLTRD Radium 226 (Field)	
Total Number of Containers		Special Instructions/Note:	
SW-15-1'5" (180-146725-37): 2			
SW-15-1'5" (180-146725-38): 2			
SW-16-1'5" (180-146725-39): 2			
SW-16-1'5" (180-146725-40): 2			
DUP-01 (180-146725-41): 2			
DUP-01 (180-146725-42): 2			
DUP-02 (180-146725-43): 2			
DUP-02 (180-146725-44): 2			
DUP-03 (180-146725-45): 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *SWO* Date/Time: *10/20/22 1800* Company: *SWO*
 Relinquished by: **FED EX** Date/Time: *10/20/22 1800* Company: **FED EX**
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No
 Cooler Temperature(s) °C and Other Remarks: _____
 Received by: *Autumn R. Johnson* Date/Time: *OCT 27 2022 0900* Company: *SWO*
 Received by: _____ Date/Time: _____ Company: _____
 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: 180-146725-2

Login Number: 146725

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-146725-2

Login Number: 146725

List Number: 2

Creator: Booker, Autumn R

List Source: Eurofins St. Louis

List Creation: 10/27/22 11:19 AM

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	



2nd
Semi-Annual
Monitoring Event

Low-Flow Test Report:

Test Date / Time: 3/7/2023 10:32:53 AM

Project: Watson CCR APMW-11

Operator Name: Rick Hagendorfer

Location Name: Watson CCR APMW-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 41.6 ft Total Depth: 51.6 ft Initial Depth to Water: 18.39 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 46.6 ft Estimated Total Volume Pumped: 16000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.05 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
---	---	---

Test Notes:

Ferrous Fe = 1.88mg/L

H2S=0.106mg/L

Weather Conditions:

Cloudy 76

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
3/7/2023 10:32 AM	00:00	6.25 pH	24.28 °C	108.13 µS/cm	2.06 mg/L		98.2 mV	18.39 ft	400.00 ml/min
3/7/2023 10:37 AM	05:00	6.10 pH	23.08 °C	113.19 µS/cm	0.24 mg/L	0.36 NTU	85.4 mV	18.44 ft	400.00 ml/min
3/7/2023 10:42 AM	10:00	6.12 pH	23.07 °C	113.55 µS/cm	0.20 mg/L	0.36 NTU	80.1 mV	18.44 ft	400.00 ml/min
3/7/2023 10:47 AM	15:00	6.14 pH	23.05 °C	113.58 µS/cm	0.18 mg/L	0.29 NTU	76.7 mV	18.44 ft	400.00 ml/min
3/7/2023 10:52 AM	20:00	6.16 pH	23.07 °C	113.21 µS/cm	0.17 mg/L	0.30 NTU	74.3 mV	18.44 ft	400.00 ml/min
3/7/2023 10:57 AM	25:00	6.15 pH	23.08 °C	112.67 µS/cm	0.16 mg/L	0.29 NTU	73.7 mV	18.44 ft	400.00 ml/min
3/7/2023 11:02 AM	30:00	6.15 pH	22.99 °C	111.83 µS/cm	0.16 mg/L	0.31 NTU	72.0 mV	18.44 ft	400.00 ml/min
3/7/2023 11:07 AM	35:00	6.16 pH	23.07 °C	111.36 µS/cm	0.16 mg/L	0.32 NTU	70.2 mV	18.44 ft	400.00 ml/min
3/7/2023 11:12 AM	40:00	6.17 pH	23.11 °C	110.62 µS/cm	0.15 mg/L	0.30 NTU	68.5 mV	18.44 ft	400.00 ml/min

Samples

Sample ID:	Description:
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APMW-11	Sample time 1117
Dup-01	Sample time 1017

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/8/2023 8:02:08 AM

Project: Watson CCR APMW-1R

Operator Name: Todd Voreis

Location Name: Watson CCR APMW-1R Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 33.6 ft Total Depth: 38.6 ft Initial Depth to Water: 25.22 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 36.1 ft Estimated Total Volume Pumped: 8000 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: 994415
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Test Notes:

Ferrous Fe = 5.3 mg/L

H2S=0

Weather Conditions:

Foggy, 69 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
3/8/2023 8:02 AM	00:00	6.07 pH	21.98 °C	7,619.8 µS/cm	1.79 mg/L		6.8 mV	25.22 ft	400.00 ml/min
3/8/2023 8:07 AM	05:00	6.20 pH	22.61 °C	7,829.9 µS/cm	0.16 mg/L	1.17 NTU	-62.7 mV	25.69 ft	400.00 ml/min
3/8/2023 8:12 AM	10:00	6.23 pH	22.66 °C	7,877.6 µS/cm	0.12 mg/L	0.97 NTU	-51.0 mV	25.69 ft	400.00 ml/min
3/8/2023 8:17 AM	15:00	6.23 pH	22.70 °C	7,911.5 µS/cm	0.11 mg/L	0.56 NTU	-55.9 mV	25.70 ft	400.00 ml/min
3/8/2023 8:22 AM	20:00	6.23 pH	22.72 °C	7,862.2 µS/cm	0.10 mg/L	0.46 NTU	-59.3 mV	25.71 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-1R	Sample time 0826

Low-Flow Test Report:

Test Date / Time: 3/8/2023 9:48:23 AM

Project: Watson CCR APMW-2

Operator Name: Todd Voreis

Location Name: Watson CCR APMW-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.9 ft Total Depth: 42.9 ft Initial Depth to Water: 22.67 ft	Pump Type: QED Tubing Type: PE Pump Intake From TOC: 37.9 ft Estimated Total Volume Pumped: 12000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.16 ft	Instrument Used: Aqua TROLL 400 Serial Number: 994415
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Test Notes:

Ferrous Fe = >7.0 mg/L

H2S=0

Weather Conditions:

Foggy' 72 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
3/8/2023 9:48 AM	00:00	4.81 pH	22.99 °C	7,229.5 µS/cm	4.76 mg/L		139.8 mV	22.67 ft	400.00 ml/min
3/8/2023 9:53 AM	05:00	5.85 pH	22.58 °C	7,310.8 µS/cm	0.29 mg/L	11.30 NTU	-16.2 mV	22.80 ft	400.00 ml/min
3/8/2023 9:58 AM	10:00	5.87 pH	22.62 °C	7,334.4 µS/cm	0.16 mg/L	4.88 NTU	-18.9 mV	22.83 ft	400.00 ml/min
3/8/2023 10:03 AM	15:00	5.88 pH	22.61 °C	7,359.8 µS/cm	0.14 mg/L	4.14 NTU	-22.2 mV	22.83 ft	400.00 ml/min
3/8/2023 10:08 AM	20:00	5.88 pH	22.58 °C	7,379.5 µS/cm	0.13 mg/L	2.59 NTU	-23.6 mV	22.83 ft	400.00 ml/min
3/8/2023 10:13 AM	25:00	5.88 pH	22.56 °C	7,392.7 µS/cm	0.13 mg/L	1.68 NTU	-24.4 mV	22.83 ft	400.00 ml/min
3/8/2023 10:18 AM	30:00	5.88 pH	22.55 °C	7,401.5 µS/cm	0.13 mg/L	1.48 NTU	-25.1 mV	22.83 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-2	Sample time 1025

Low-Flow Test Report:

Test Date / Time: 3/8/2023 10:38:56 AM

Project: Watson CCR APMW-2D

Operator Name: Rick Hagendorfer

Location Name: Watson CCR APMW-2D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 152.8 ft Total Depth: 162.8 ft Initial Depth to Water: 14.91 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 157.2 ft Estimated Total Volume Pumped: 8000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.2 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Ferrous Fe =0.45mg/L

H2S= 0.265mg/L

Weather Conditions:

Haze 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	
3/8/2023 10:38 AM	00:00	7.17 pH	23.60 °C	225.11 µS/cm	4.28 mg/L		117.7 mV	14.91 ft	400.00 ml/min
3/8/2023 10:43 AM	05:00	7.14 pH	22.43 °C	197.62 µS/cm	0.35 mg/L	1.54 NTU	100.2 mV	15.12 ft	400.00 ml/min
3/8/2023 10:48 AM	10:00	7.13 pH	22.38 °C	197.65 µS/cm	0.28 mg/L	1.26 NTU	91.4 mV	15.11 ft	400.00 ml/min
3/8/2023 10:53 AM	15:00	7.13 pH	22.38 °C	195.10 µS/cm	0.25 mg/L	0.92 NTU	84.1 mV	15.11 ft	400.00 ml/min
3/8/2023 10:58 AM	20:00	7.13 pH	22.40 °C	199.80 µS/cm	0.23 mg/L	0.65 NTU	77.1 mV	15.11 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-2D	Sample time 1102

Low-Flow Test Report:

Test Date / Time: 3/8/2023 12:19:32 PM

Project: Watson CCR APMW-3D

Operator Name: Rick Hagendorfer

Location Name: Watson CCR APMW-3D Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 88.1 ft Total Depth: 93.1 ft Initial Depth to Water: 7.72 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 91.1 ft Estimated Total Volume Pumped: 10000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 1.97 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Ferrous Fe = 1.51mg/L

H2S= 0.106mg/L

Weather Conditions:

Cloudy 74

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
3/8/2023 12:19 PM	00:00	5.65 pH	23.88 °C	282.40 µS/cm	2.88 mg/L		123.2 mV	7.72 ft	400.00 ml/min
3/8/2023 12:24 PM	05:00	6.27 pH	22.49 °C	276.05 µS/cm	0.31 mg/L	1.46 NTU	90.2 mV	9.35 ft	400.00 ml/min
3/8/2023 12:29 PM	10:00	6.37 pH	22.49 °C	245.19 µS/cm	0.24 mg/L	1.39 NTU	78.7 mV	9.61 ft	400.00 ml/min
3/8/2023 12:34 PM	15:00	6.40 pH	22.49 °C	243.47 µS/cm	0.20 mg/L	0.78 NTU	71.5 mV	9.66 ft	400.00 ml/min
3/8/2023 12:39 PM	20:00	6.43 pH	22.46 °C	240.99 µS/cm	0.19 mg/L	0.51 NTU	65.4 mV	9.68 ft	400.00 ml/min
3/8/2023 12:44 PM	25:00	6.44 pH	22.49 °C	239.72 µS/cm	0.18 mg/L	0.28 NTU	60.3 mV	9.69 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-3D	Sample time 1248

Low-Flow Test Report:

Test Date / Time: 3/8/2023 12:33:15 PM

Project: Watson CCR APMW-3

Operator Name: Todd Voreis

Location Name: Watson CCR 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: 8 ft	Pump Type: QED Tubing Type: PE Pump Intake From TOC: 31.6 ft Estimated Total Volume Pumped: 34000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.13 ft	Instrument Used: Aqua TROLL 400 Serial Number: 994415
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Test Notes:

Ferrous Fe = 1.6

H2S = .15

Weather Conditions:

Cloudy, 75 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
3/8/2023 12:33 PM	00:00	6.24 pH	28.73 °C	29.32 µS/cm	7.59 mg/L		70.9 mV	8.00 ft	400.00 ml/min
3/8/2023 12:38 PM	05:00	6.56 pH	23.28 °C	26,557 µS/cm	0.13 mg/L	49.20 NTU	-56.8 mV	8.13 ft	400.00 ml/min
3/8/2023 12:43 PM	10:00	6.54 pH	23.11 °C	26,175 µS/cm	0.10 mg/L	20.20 NTU	-29.0 mV	8.13 ft	400.00 ml/min
3/8/2023 12:48 PM	15:00	6.52 pH	23.17 °C	26,005 µS/cm	0.10 mg/L	11.50 NTU	-26.1 mV	8.13 ft	400.00 ml/min
3/8/2023 12:53 PM	20:00	6.52 pH	23.16 °C	25,954 µS/cm	0.11 mg/L	12.50 NTU	-24.2 mV	8.13 ft	400.00 ml/min
3/8/2023 12:58 PM	25:00	6.52 pH	23.15 °C	25,904 µS/cm	0.12 mg/L	15.70 NTU	-23.0 mV	8.13 ft	400.00 ml/min
3/8/2023 1:03 PM	30:00	6.52 pH	23.15 °C	25,927 µS/cm	0.12 mg/L	14.70 NTU	-22.1 mV	8.13 ft	400.00 ml/min
3/8/2023 1:08 PM	35:00	6.52 pH	23.20 °C	25,924 µS/cm	0.12 mg/L	9.37 NTU	-21.6 mV	8.13 ft	400.00 ml/min
3/8/2023 1:13 PM	40:00	6.52 pH	23.21 °C	25,926 µS/cm	0.12 mg/L	8.09 NTU	-20.9 mV	8.13 ft	400.00 ml/min
3/8/2023 1:18 PM	45:00	6.52 pH	23.13 °C	25,909 µS/cm	0.12 mg/L	5.79 NTU	-20.2 mV	8.13 ft	400.00 ml/min
3/8/2023 1:23 PM	50:00	6.52 pH	23.09 °C	25,959 µS/cm	0.12 mg/L	4.13 NTU	-19.7 mV	8.13 ft	400.00 ml/min
3/8/2023 1:28 PM	55:00	6.52 pH	23.18 °C	25,946 µS/cm	0.12 mg/L	3.96 NTU	-19.5 mV	8.13 ft	400.00 ml/min
3/8/2023 1:33 PM	01:00:00	6.52 pH	23.19 °C	25,947 µS/cm	0.12 mg/L	3.43 NTU	-19.1 mV	8.13 ft	400.00 ml/min

3/8/2023 1:38 PM	01:05:00	6.53 pH	23.09 °C	25,947 µS/cm	0.12 mg/L	2.77 NTU	-18.9 mV	8.13 ft	400.00 ml/min
3/8/2023 1:43 PM	01:10:00	6.53 pH	23.11 °C	25,947 µS/cm	0.11 mg/L	2.33 NTU	-18.2 mV	8.13 ft	400.00 ml/min
3/8/2023 1:48 PM	01:15:00	6.53 pH	23.09 °C	25,966 µS/cm	0.11 mg/L	2.43 NTU	-18.2 mV	8.13 ft	400.00 ml/min
3/8/2023 1:53 PM	01:20:00	6.53 pH	23.18 °C	25,994 µS/cm	0.11 mg/L	2.32 NTU	-18.0 mV	8.13 ft	400.00 ml/min
3/8/2023 1:58 PM	01:25:00	6.53 pH	23.17 °C	25,953 µS/cm	0.11 mg/L	1.94 NTU	-17.8 mV	8.13 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-3	Sample time 1410
Dup-02	Fake sample time 1310

Low-Flow Test Report:

Test Date / Time: 3/8/2023 1:59:02 PM

Project: Watson CCR APMW-4

Operator Name: Rick Hagendorfer

Location Name: Watson CCR APMW-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.1 ft Total Depth: 37.1 ft Initial Depth to Water: 12.91 ft	Pump Type: QED Tubing Type: PE Pump Intake From TOC: 32.1 ft Estimated Total Volume Pumped: 26000 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 = 2.10mg/L

H2S = 1.696mg/L

Weather Conditions:

P/C 77

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
3/8/2023 1:59 PM	00:00	6.22 pH	26.87 °C	8,195.2 µS/cm	4.08 mg/L		133.8 mV	12.91 ft	400.00 ml/min
3/8/2023 2:04 PM	05:00	6.07 pH	22.67 °C	7,965.4 µS/cm	0.43 mg/L	1.13 NTU	84.6 mV	13.01 ft	400.00 ml/min
3/8/2023 2:09 PM	10:00	6.10 pH	22.51 °C	7,909.2 µS/cm	0.23 mg/L	0.66 NTU	37.0 mV	13.01 ft	400.00 ml/min
3/8/2023 2:14 PM	15:00	6.12 pH	22.47 °C	7,874.6 µS/cm	0.19 mg/L	0.48 NTU	-6.3 mV	13.01 ft	400.00 ml/min
3/8/2023 2:19 PM	20:00	6.14 pH	22.33 °C	7,835.5 µS/cm	0.18 mg/L	0.58 NTU	-48.3 mV	13.01 ft	400.00 ml/min
3/8/2023 2:24 PM	25:00	6.17 pH	22.46 °C	7,856.4 µS/cm	0.17 mg/L	0.66 NTU	-87.1 mV	13.01 ft	400.00 ml/min
3/8/2023 2:29 PM	30:00	6.20 pH	22.37 °C	7,869.3 µS/cm	0.17 mg/L	0.66 NTU	-130.7 mV	13.01 ft	400.00 ml/min
3/8/2023 2:34 PM	35:00	6.22 pH	22.40 °C	7,869.2 µS/cm	0.16 mg/L	0.71 NTU	-184.7 mV	13.01 ft	400.00 ml/min
3/8/2023 2:39 PM	40:00	6.23 pH	22.45 °C	7,881.9 µS/cm	0.16 mg/L	0.69 NTU	-215.1 mV	13.01 ft	400.00 ml/min
3/8/2023 2:44 PM	45:00	6.24 pH	22.35 °C	7,884.2 µS/cm	0.16 mg/L	0.62 NTU	-224.7 mV	13.01 ft	400.00 ml/min
3/8/2023 2:49 PM	50:00	6.24 pH	22.44 °C	7,873.2 µS/cm	0.16 mg/L	0.60 NTU	-237.7 mV	13.01 ft	400.00 ml/min
3/8/2023 2:54 PM	55:00	6.25 pH	22.40 °C	7,871.2 µS/cm	0.16 mg/L	0.50 NTU	-249.4 mV	13.01 ft	400.00 ml/min
3/8/2023 2:59 PM	01:00:00	6.25 pH	22.40 °C	7,883.6 µS/cm	0.16 mg/L	0.49 NTU	-259.4 mV	13.01 ft	400.00 ml/min

3/8/2023 3:04 PM	01:05:00	6.26 pH	22.40 °C	7,888.0 µS/cm	0.16 mg/L	0.43 NTU	-266.2 mV	13.01 ft	400.00 ml/min
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Samples

Sample ID:	Description:
APMW-4	Sample time 1507

Low-Flow Test Report:

Test Date / Time: 3/8/2023 3:27:11 PM

Project: Watson CCR APMW-4D

Operator Name: Todd Voreis

Location Name: Watson CCR APMW-4D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 90.3 ft Total Depth: 100.3 ft Initial Depth to Water: 11.41 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 95.3 ft Estimated Total Volume Pumped: 11093.333 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.17 ft	Instrument Used: Aqua TROLL 400 Serial Number: 994415
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Test Notes:

Ferrous Fe =5.0mg/L

H2S = 0.106mg/L

Weather Conditions:

Partly cloudy, 77 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
3/8/2023 3:27 PM	00:00	6.82 pH	26.20 °C	20,484 µS/cm	1.79 mg/L		-27.6 mV	11.41 ft	400.00 ml/min
3/8/2023 3:32 PM	05:00	6.72 pH	21.87 °C	22,191 µS/cm	0.17 mg/L	2.04 NTU	-53.6 mV	11.58 ft	400.00 ml/min
3/8/2023 3:34 PM	07:44	6.72 pH	21.74 °C	22,269 µS/cm	0.15 mg/L	1.95 NTU	-53.9 mV	11.58 ft	400.00 ml/min
3/8/2023 3:39 PM	12:44	6.72 pH	21.92 °C	22,330 µS/cm	0.13 mg/L	0.88 NTU	-27.7 mV	11.58 ft	400.00 ml/min
3/8/2023 3:44 PM	17:44	6.71 pH	21.86 °C	22,348 µS/cm	0.12 mg/L	0.89 NTU	-27.5 mV	11.58 ft	400.00 ml/min
3/8/2023 3:49 PM	22:44	6.71 pH	21.80 °C	22,397 µS/cm	0.11 mg/L	0.76 NTU	-27.9 mV	11.58 ft	400.00 ml/min
3/8/2023 3:54 PM	27:44	6.71 pH	21.77 °C	22,406 µS/cm	0.10 mg/L	0.73 NTU	-28.1 mV	11.58 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-4D	Sample time 1607

Low-Flow Test Report:

Test Date / Time: 3/9/2023 6:51:40 AM

Project: Watson CCR APMW-5D

Operator Name: Rick Hagendorfer

Location Name: Watson CCR APMW-5D Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 106 ft Total Depth: 111 ft Initial Depth to Water: 8.45 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 108.5 ft Estimated Total Volume Pumped: 10000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 1.71 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Ferrous Fe = 1.12mg/L

H2S=0mg/L

Weather Conditions:

Cloudy 72

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	
3/9/2023 6:51 AM	00:00	5.91 pH	21.24 °C	185.45 µS/cm	3.63 mg/L		90.5 mV	8.45 ft	400.00 ml/min
3/9/2023 6:56 AM	05:00	6.38 pH	21.30 °C	178.64 µS/cm	0.40 mg/L	4.43 NTU	59.5 mV	9.96 ft	400.00 ml/min
3/9/2023 7:01 AM	10:00	6.48 pH	21.31 °C	178.08 µS/cm	0.31 mg/L	3.88 NTU	47.8 mV	10.14 ft	400.00 ml/min
3/9/2023 7:06 AM	15:00	6.51 pH	21.29 °C	174.32 µS/cm	0.28 mg/L	3.86 NTU	39.8 mV	10.16 ft	400.00 ml/min
3/9/2023 7:11 AM	20:00	6.52 pH	21.31 °C	171.57 µS/cm	0.26 mg/L	4.31 NTU	34.2 mV	10.16 ft	400.00 ml/min
3/9/2023 7:16 AM	25:00	6.53 pH	21.33 °C	170.73 µS/cm	0.24 mg/L	4.22 NTU	29.1 mV	10.16 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-5D	Sample time 0721

Low-Flow Test Report:

Test Date / Time: 3/9/2023 8:10:39 AM

Project: Watson CCR APMW-5

Operator Name: Todd Voreis

Location Name: Watson CCR APMW-5 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: 8.4 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: 0.13 ft	Instrument Used: Aqua TROLL 400 Serial Number: 994415
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Test Notes:

Ferrous Fe = 2.0 mg/L

H2S = 0

Weather Conditions:

Cloudy 71

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	
3/9/2023 8:10 AM	00:00	6.27 pH	21.24 °C	22,710 µS/cm	0.10 mg/L		-21.7 mV	8.40 ft	400.00 ml/min
3/9/2023 8:15 AM	05:00	6.27 pH	21.29 °C	22,710 µS/cm	0.10 mg/L	1.77 NTU	-42.2 mV	8.53 ft	400.00 ml/min
3/9/2023 8:20 AM	10:00	6.28 pH	21.32 °C	22,723 µS/cm	0.10 mg/L	1.55 NTU	-20.0 mV	8.53 ft	400.00 ml/min
3/9/2023 8:25 AM	15:00	6.28 pH	21.32 °C	22,742 µS/cm	0.10 mg/L	1.43 NTU	-19.4 mV	8.53 ft	400.00 ml/min
3/9/2023 8:30 AM	20:00	6.28 pH	21.36 °C	22,738 µS/cm	0.10 mg/L	1.23 NTU	-19.3 mV	8.53 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-5	Sample time 0845

Low-Flow Test Report:

Test Date / Time: 3/9/2023 9:56:18 AM

Project: Watson CCR APMW-6R

Operator Name: Rick Hagendorfer

Location Name: Watson CCR APMW-6R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 41.8 ft Total Depth: 51.8 ft Initial Depth to Water: 7.79 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 46.8 ft Estimated Total Volume Pumped: 10000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 2.07 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Ferrous Fe = 6.5mg/L

H2S=0mg/L

Weather Conditions:

Cloudy 76

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
3/9/2023 9:56 AM	00:00	5.91 pH	25.19 °C	9,809.6 µS/cm	1.44 mg/L		70.3 mV	7.79 ft	400.00 ml/min
3/9/2023 10:01 AM	05:00	6.06 pH	23.09 °C	10,269 µS/cm	0.25 mg/L	1.90 NTU	34.4 mV	9.65 ft	400.00 ml/min
3/9/2023 10:06 AM	10:00	6.03 pH	22.79 °C	11,129 µS/cm	0.21 mg/L	0.43 NTU	14.9 mV	9.85 ft	400.00 ml/min
3/9/2023 10:11 AM	15:00	6.02 pH	22.67 °C	11,382 µS/cm	0.19 mg/L	0.46 NTU	2.7 mV	9.86 ft	400.00 ml/min
3/9/2023 10:16 AM	20:00	6.03 pH	22.63 °C	11,476 µS/cm	0.17 mg/L	0.54 NTU	-5.8 mV	9.86 ft	400.00 ml/min
3/9/2023 10:21 AM	25:00	6.04 pH	22.83 °C	11,549 µS/cm	0.17 mg/L	0.34 NTU	-12.2 mV	9.86 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-6R	Sample time 1024
FB-01	Sample time 0907
EB-01	Sample time 0917

Low-Flow Test Report:

Test Date / Time: 3/9/2023 11:46:28 AM

Project: Watson CCR APMW-7

Operator Name: Rick Hagendorfer

Location Name: Watson CCR 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: 12.25 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 32.4 ft Estimated Total Volume Pumped: 16000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.54 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Ferrous Fe =2.24mg/L

H2S=2.38mg/L

Weather Conditions:

P/C 77

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
3/9/2023 11:46 AM	00:00	6.51 pH	25.30 °C	12,139 µS/cm	1.45 mg/L		50.4 mV	12.25 ft	400.00 ml/min
3/9/2023 11:51 AM	05:00	6.37 pH	22.80 °C	12,866 µS/cm	0.25 mg/L	1.78 NTU	-34.9 mV	12.61 ft	400.00 ml/min
3/9/2023 11:56 AM	10:00	6.36 pH	22.71 °C	12,978 µS/cm	0.19 mg/L	0.84 NTU	-79.3 mV	12.71 ft	400.00 ml/min
3/9/2023 12:01 PM	15:00	6.37 pH	22.71 °C	13,038 µS/cm	0.19 mg/L	0.67 NTU	-110.6 mV	12.78 ft	400.00 ml/min
3/9/2023 12:06 PM	20:00	6.38 pH	22.71 °C	13,044 µS/cm	0.19 mg/L	0.56 NTU	-190.0 mV	12.79 ft	400.00 ml/min
3/9/2023 12:11 PM	25:00	6.39 pH	22.71 °C	13,030 µS/cm	0.18 mg/L	0.64 NTU	-228.3 mV	12.79 ft	400.00 ml/min
3/9/2023 12:16 PM	30:00	6.39 pH	22.78 °C	13,038 µS/cm	0.18 mg/L	0.46 NTU	-245.3 mV	12.79 ft	400.00 ml/min
3/9/2023 12:21 PM	35:00	6.37 pH	22.80 °C	13,043 µS/cm	0.18 mg/L	0.42 NTU	-248.5 mV	12.79 ft	400.00 ml/min
3/9/2023 12:26 PM	40:00	6.37 pH	22.77 °C	13,063 µS/cm	0.18 mg/L	0.49 NTU	-251.9 mV	12.79 ft	400.00 ml/min

Samples

Sample ID:	Description:
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APMW-7

Sample time 1230

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/9/2023 2:11:52 PM

Project: Watson CCR APMW-8

Operator Name: Todd Voreis

Location Name: Watson CCR 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: 20.33 ft	Pump Type: QED Tubing Type: PE Pump Intake From TOC: 37.8 ft Estimated Total Volume Pumped: 18000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.13 ft	Instrument Used: Aqua TROLL 400 Serial Number: 994415
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Test Notes:

Ferrous Fe = 1.6 mg/L

H2S = 0 mg/L

Weather Conditions:

Partly cloudy, 80 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
3/9/2023 2:11 PM	00:00	5.73 pH	31.90 °C	0.21 µS/cm	7.32 mg/L		87.8 mV	20.33 ft	400.00 ml/min
3/9/2023 2:16 PM	05:00	6.88 pH	28.44 °C	10,244 µS/cm	6.89 mg/L	28.20 NTU	100.4 mV	20.46 ft	400.00 ml/min
3/9/2023 2:21 PM	10:00	6.39 pH	23.01 °C	11,064 µS/cm	0.45 mg/L	19.60 NTU	-12.1 mV	20.46 ft	400.00 ml/min
3/9/2023 2:26 PM	15:00	6.44 pH	22.95 °C	11,219 µS/cm	0.26 mg/L	14.80 NTU	-12.8 mV	20.46 ft	400.00 ml/min
3/9/2023 2:31 PM	20:00	6.46 pH	22.93 °C	11,202 µS/cm	0.21 mg/L	13.60 NTU	-10.0 mV	20.46 ft	400.00 ml/min
3/9/2023 2:36 PM	25:00	6.47 pH	22.89 °C	11,212 µS/cm	0.19 mg/L	6.84 NTU	-11.1 mV	20.46 ft	400.00 ml/min
3/9/2023 2:41 PM	30:00	6.47 pH	22.85 °C	11,205 µS/cm	0.18 mg/L	5.74 NTU	-11.6 mV	20.46 ft	400.00 ml/min
3/9/2023 2:46 PM	35:00	6.49 pH	22.88 °C	11,193 µS/cm	0.17 mg/L	3.87 NTU	-11.2 mV	20.46 ft	400.00 ml/min
3/9/2023 2:51 PM	40:00	6.49 pH	22.80 °C	11,207 µS/cm	0.17 mg/L	2.96 NTU	-11.3 mV	20.46 ft	400.00 ml/min
3/9/2023 2:56 PM	45:00	6.50 pH	22.81 °C	11,186 µS/cm	0.16 mg/L	2.79 NTU	-10.4 mV	20.46 ft	400.00 ml/min

Samples

Sample ID:	Description:
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APMW-8

Sample time 1510

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/9/2023 2:19:13 PM

Project: Watson CCR APMW-8D

Operator Name: Rick Hagendorfer

Location Name: Watson CCR 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: 20.22 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 12000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 1.57 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Ferrous Fe =2.7mg/L

H2S=0.159mg/L

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	+/- 20	+/- 0.3	
3/9/2023 2:19 PM	00:00	6.16 pH	25.64 °C	189.17 µS/cm	1.30 mg/L		26.4 mV	20.22 ft	400.00 ml/min
3/9/2023 2:24 PM	05:00	6.44 pH	23.20 °C	188.18 µS/cm	0.28 mg/L	0.98 NTU	-18.6 mV	21.67 ft	400.00 ml/min
3/9/2023 2:29 PM	10:00	6.50 pH	23.03 °C	181.54 µS/cm	0.23 mg/L	0.68 NTU	-27.7 mV	21.75 ft	400.00 ml/min
3/9/2023 2:34 PM	15:00	6.50 pH	22.97 °C	177.48 µS/cm	0.20 mg/L	0.41 NTU	-29.5 mV	21.78 ft	400.00 ml/min
3/9/2023 2:39 PM	20:00	6.50 pH	22.98 °C	171.98 µS/cm	0.19 mg/L	0.40 NTU	-29.4 mV	21.78 ft	400.00 ml/min
3/9/2023 2:44 PM	25:00	6.50 pH	22.95 °C	167.63 µS/cm	0.19 mg/L	0.39 NTU	-28.8 mV	21.79 ft	400.00 ml/min
3/9/2023 2:49 PM	30:00	6.49 pH	22.89 °C	169.38 µS/cm	0.18 mg/L	0.31 NTU	-28.4 mV	21.79 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-8D	Sample time 1453
Dup-03	Fake sample time 1353

Low-Flow Test Report:

Test Date / Time: 3/10/2023 7:52:04 AM

Project: Watson CCR APMW-16

Operator Name: Rick Hagendorfer

Location Name: Watson CCR APMW-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 m Top of Screen: 19.5 m Total Depth: 24.5 m Initial Depth to Water: 2.41 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 22 ft Estimated Total Volume Pumped: 8000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Ferrous Fe =0.03mg/L

H2S=0.212mg/L

Weather Conditions:

P/C 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	
3/10/2023 7:52 AM	00:00	6.35 pH	20.93 °C	7,836.7 µS/cm	0.37 mg/L		-166.0 mV	2.41 ft	400.00 ml/min
3/10/2023 7:57 AM	05:00	6.45 pH	20.86 °C	8,478.3 µS/cm	0.25 mg/L	0.52 NTU	-255.8 mV	2.41 ft	400.00 ml/min
3/10/2023 8:02 AM	10:00	6.48 pH	20.93 °C	8,472.9 µS/cm	0.23 mg/L	0.31 NTU	-281.6 mV	2.41 ft	400.00 ml/min
3/10/2023 8:07 AM	15:00	6.49 pH	20.84 °C	8,516.7 µS/cm	0.22 mg/L	0.30 NTU	-294.0 mV	2.41 ft	400.00 ml/min
3/10/2023 8:12 AM	20:00	6.50 pH	20.95 °C	8,495.4 µS/cm	0.21 mg/L	0.35 NTU	-301.4 mV	2.41 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-16	Sample time 0816

Low-Flow Test Report:

Test Date / Time: 3/10/2023 9:09:18 AM

Project: Watson CCR APMW-15

Operator Name: Rick Hagendorfer

Location Name: Watson CCR 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: 2.45 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 23 ft Estimated Total Volume Pumped: 12600 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 =0.06mg/L

H2S=0.265mg/L

Weather Conditions:

Fair, 74 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
3/10/2023 9:09 AM	00:00	8.11 pH	32.64 °C	4.81 µS/cm	6.80 mg/L		-2.7 mV	2.45 ft	360.00 ml/min
3/10/2023 9:14 AM	05:00	6.47 pH	22.18 °C	8,321.2 µS/cm	0.24 mg/L	4.99 NTU	-319.8 mV	2.50 ft	360.00 ml/min
3/10/2023 9:19 AM	10:00	6.47 pH	21.92 °C	8,763.9 µS/cm	0.21 mg/L	3.36 NTU	-299.7 mV	2.50 ft	360.00 ml/min
3/10/2023 9:24 AM	15:00	6.48 pH	21.95 °C	8,812.4 µS/cm	0.20 mg/L	2.00 NTU	-304.5 mV	2.50 ft	360.00 ml/min
3/10/2023 9:29 AM	20:00	6.48 pH	21.82 °C	8,806.8 µS/cm	0.20 mg/L	0.94 NTU	-307.9 mV	2.50 ft	360.00 ml/min
3/10/2023 9:34 AM	25:00	6.48 pH	21.37 °C	8,872.5 µS/cm	0.20 mg/L	0.79 NTU	-310.7 mV	2.50 ft	360.00 ml/min
3/10/2023 9:39 AM	30:00	6.48 pH	21.21 °C	8,901.6 µS/cm	0.19 mg/L	0.67 NTU	-312.8 mV	2.49 ft	360.00 ml/min
3/10/2023 9:44 AM	35:00	6.48 pH	21.19 °C	8,888.1 µS/cm	0.19 mg/L	0.55 NTU	-314.6 mV	2.49 ft	360.00 ml/min

Samples

Sample ID:	Description:
APMW-15	Sample time 0948

Low-Flow Test Report:

Test Date / Time: 3/10/2023 10:27:57 AM

Project: Watson CCR APMW-14

Operator Name: Rick Hagendorfer

Location Name: Watson CCR 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: 2.38 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 19 ft Estimated Total Volume Pumped: 10800 ml Flow Cell Volume: 90 ml Final Flow Rate: 360 ml/min Final Draw Down: 0.1 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Ferrous Fe =5.3mg/L

H2S=0mg/L

Weather Conditions:

Cloudy 74

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
3/10/2023 10:27 AM	00:00	7.29 pH	25.96 °C	6,942.5 µS/cm	4.53 mg/L		-28.8 mV	2.38 ft	360.00 ml/min
3/10/2023 10:32 AM	05:00	6.07 pH	22.48 °C	8,956.8 µS/cm	0.19 mg/L	45.40 NTU	-18.1 mV	2.54 ft	360.00 ml/min
3/10/2023 10:37 AM	10:00	6.03 pH	22.00 °C	9,273.4 µS/cm	0.16 mg/L	12.20 NTU	-22.3 mV	2.53 ft	360.00 ml/min
3/10/2023 10:42 AM	15:00	6.02 pH	21.72 °C	9,435.7 µS/cm	0.15 mg/L	4.69 NTU	-27.2 mV	2.52 ft	360.00 ml/min
3/10/2023 10:47 AM	20:00	6.01 pH	21.64 °C	9,545.7 µS/cm	0.15 mg/L	4.32 NTU	-32.3 mV	2.50 ft	360.00 ml/min
3/10/2023 10:52 AM	25:00	6.00 pH	21.55 °C	9,635.7 µS/cm	0.14 mg/L	1.64 NTU	-36.2 mV	2.49 ft	360.00 ml/min
3/10/2023 10:57 AM	30:00	6.00 pH	21.55 °C	9,645.0 µS/cm	0.14 mg/L	1.04 NTU	-38.6 mV	2.48 ft	360.00 ml/min

Samples

Sample ID:	Description:
APMW-14	Sample time 1101
Dup-04	Fake sample time 1001

Low-Flow Test Report:

Test Date / Time: 3/10/2023 11:43:36 AM

Project: Watson CCR APMW-13

Operator Name: Rick Hagendorfer

Location Name: Watson CCR 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: 2.59 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: 0.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Ferrous Fe =5.0mg/L

H2S = 0.159mg/L

Weather Conditions:

Cloudy 75

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
3/10/2023 11:43 AM	00:00	6.23 pH	23.18 °C	5,459.8 µS/cm	3.16 mg/L		-0.5 mV	2.59 ft	360.00 ml/min
3/10/2023 11:48 AM	05:00	6.01 pH	21.82 °C	5,738.1 µS/cm	0.26 mg/L	2.10 NTU	-21.5 mV	2.67 ft	360.00 ml/min
3/10/2023 11:53 AM	10:00	6.00 pH	21.76 °C	5,741.5 µS/cm	0.20 mg/L	1.19 NTU	-21.0 mV	2.65 ft	360.00 ml/min
3/10/2023 11:58 AM	15:00	6.00 pH	21.82 °C	5,737.2 µS/cm	0.18 mg/L	0.76 NTU	-25.2 mV	2.64 ft	360.00 ml/min
3/10/2023 12:03 PM	20:00	6.00 pH	21.88 °C	5,712.0 µS/cm	0.17 mg/L	0.92 NTU	-28.6 mV	2.63 ft	360.00 ml/min

Samples

Sample ID:	Description:
APMW-13	Sample time 1207

Low-Flow Test Report:

Test Date / Time: 3/13/2023 10:26:19 AM

Project: Watson CCR APMW-10

Operator Name: Todd a Voreis

Location Name: Watson CCR 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: 20.75 ft	Pump Type: QED Tubing Type: PE Pump Intake From TOC: 27.9 ft Estimated Total Volume Pumped: 10000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.16 ft	Instrument Used: Aqua TROLL 400 Serial Number: 994415
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Test Notes:

Ferrous Fe = 1.5 mg/L

H2S = 0 mg/L

Weather Conditions:

Sunny, 57 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
3/13/2023 10:26 AM	00:00	6.99 pH	18.56 °C	3,038.9 µS/cm	6.63 mg/L		-17.9 mV	20.75 ft	400.00 ml/min
3/13/2023 10:31 AM	05:00	6.91 pH	21.66 °C	2,637.7 µS/cm	0.22 mg/L	1.58 NTU	-105.5 mV	20.91 ft	400.00 ml/min
3/13/2023 10:36 AM	10:00	6.92 pH	21.81 °C	2,624.7 µS/cm	0.12 mg/L	1.03 NTU	-88.9 mV	20.91 ft	400.00 ml/min
3/13/2023 10:41 AM	15:00	6.93 pH	21.88 °C	2,628.9 µS/cm	0.10 mg/L	0.85 NTU	-90.1 mV	20.91 ft	400.00 ml/min
3/13/2023 10:46 AM	20:00	6.94 pH	21.91 °C	2,636.1 µS/cm	0.09 mg/L	0.81 NTU	-89.8 mV	20.91 ft	400.00 ml/min
3/13/2023 10:51 AM	25:00	6.97 pH	22.06 °C	2,647.8 µS/cm	0.09 mg/L	0.63 NTU	-90.9 mV	20.91 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-10	Sample time 1103

Low-Flow Test Report:

Test Date / Time: 3/13/2023 12:10:14 PM

Project: Watson CCR APMW-10D

Operator Name: Todd a Voreis

<p>Location Name: Watson CCR APMW-10D</p> <p>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: 14.16 ft</p>	<p>Pump Type: PP</p> <p>Tubing Type: PE Pump Intake From TOC: 203.9 ft Estimated Total Volume Pumped: 34000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.52 ft</p>	<p>Instrument Used: Aqua TROLL 400</p> <p>Serial Number: 994415</p>
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Test Notes:

Ferrous Fe = 0.06 mg/L

H2S = .371 mg/ L

Weather Conditions:

Sunny, 61 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
3/13/2023 12:10 PM	00:00	8.87 pH	19.36 °C	264.16 µS/cm	5.09 mg/L		-15.3 mV	14.16 ft	400.00 ml/min
3/13/2023 12:15 PM	05:00	8.94 pH	22.08 °C	245.47 µS/cm	0.29 mg/L	33.50 NTU	-56.8 mV	14.68 ft	400.00 ml/min
3/13/2023 12:20 PM	10:00	8.95 pH	22.30 °C	238.71 µS/cm	0.22 mg/L	19.50 NTU	-60.2 mV	14.68 ft	400.00 ml/min
3/13/2023 12:25 PM	15:00	8.99 pH	22.46 °C	238.29 µS/cm	0.19 mg/L	12.40 NTU	-56.5 mV	14.68 ft	400.00 ml/min
3/13/2023 12:30 PM	20:00	8.99 pH	22.58 °C	236.59 µS/cm	0.17 mg/L	8.73 NTU	-55.3 mV	14.68 ft	400.00 ml/min
3/13/2023 12:35 PM	25:00	9.00 pH	22.71 °C	232.52 µS/cm	0.15 mg/L	5.32 NTU	-54.9 mV	14.68 ft	400.00 ml/min
3/13/2023 12:40 PM	30:00	8.99 pH	22.52 °C	236.14 µS/cm	0.14 mg/L	4.79 NTU	-55.7 mV	14.68 ft	400.00 ml/min
3/13/2023 12:45 PM	35:00	8.98 pH	22.62 °C	234.89 µS/cm	0.13 mg/L	4.32 NTU	-55.9 mV	14.68 ft	400.00 ml/min
3/13/2023 12:50 PM	40:00	8.98 pH	22.63 °C	234.81 µS/cm	0.13 mg/L	4.37 NTU	-57.3 mV	14.68 ft	400.00 ml/min
3/13/2023 12:55 PM	45:00	8.98 pH	22.70 °C	234.46 µS/cm	0.12 mg/L	4.08 NTU	-58.6 mV	14.68 ft	400.00 ml/min
3/13/2023 1:00 PM	50:00	8.96 pH	22.54 °C	232.40 µS/cm	0.11 mg/L	3.34 NTU	-61.0 mV	14.68 ft	400.00 ml/min
3/13/2023 1:05 PM	55:00	8.97 pH	22.52 °C	231.87 µS/cm	0.11 mg/L	3.23 NTU	-63.7 mV	14.68 ft	400.00 ml/min
3/13/2023 1:10 PM	01:00:00	8.96 pH	22.53 °C	234.46 µS/cm	0.10 mg/L	3.24 NTU	-65.9 mV	14.68 ft	400.00 ml/min

3/13/2023 1:15 PM	01:05:00	8.96 pH	22.61 °C	233.07 µS/cm	0.10 mg/L	2.97 NTU	-68.4 mV	14.68 ft	400.00 ml/min
3/13/2023 1:20 PM	01:10:00	8.97 pH	22.70 °C	233.17 µS/cm	0.09 mg/L	2.99 NTU	-69.8 mV	14.68 ft	400.00 ml/min
3/13/2023 1:25 PM	01:15:00	8.95 pH	22.84 °C	233.07 µS/cm	0.09 mg/L	2.70 NTU	-71.3 mV	14.68 ft	400.00 ml/min
3/13/2023 1:30 PM	01:20:00	8.95 pH	22.79 °C	233.01 µS/cm	0.09 mg/L	2.34 NTU	-73.7 mV	14.68 ft	400.00 ml/min
3/13/2023 1:35 PM	01:25:00	8.95 pH	22.66 °C	232.68 µS/cm	0.08 mg/L	2.34 NTU	-75.5 mV	14.68 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-10D	Sample time 1347
EB-02	Sample time 1148
FB-02	Sample time 1157

Low-Flow Test Report:

Test Date / Time: 3/9/2023 11:35:10 AM

Project: Watson CCR APMW-6D

Operator Name: Todd Voreis

Location Name: Watson CCR APMW-6D Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 100.9 ft Total Depth: 105.9 ft Initial Depth to Water: 8.32 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 103.4 ft Estimated Total Volume Pumped: 10000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 1.18 ft	Instrument Used: Aqua TROLL 400 Serial Number: 994415
---	--	---

Test Notes:

Ferrous Fe = 1.72 mg/L

H2S = 0 mg/L

Weather Conditions:

Mostly cloudy, 78 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
3/9/2023 11:35 AM	00:00	7.89 pH	26.56 °C	5.38 µS/cm	8.01 mg/L		-6.5 mV	8.32 ft	400.00 ml/min
3/9/2023 11:40 AM	05:00	7.03 pH	23.05 °C	287.01 µS/cm	0.28 mg/L	10.50 NTU	-86.8 mV	9.27 ft	400.00 ml/min
3/9/2023 11:45 AM	10:00	6.97 pH	23.06 °C	274.81 µS/cm	0.18 mg/L	2.77 NTU	-63.3 mV	9.40 ft	400.00 ml/min
3/9/2023 11:50 AM	15:00	6.95 pH	23.02 °C	271.48 µS/cm	0.15 mg/L	2.84 NTU	-61.9 mV	9.45 ft	400.00 ml/min
3/9/2023 11:55 AM	20:00	6.94 pH	22.99 °C	271.19 µS/cm	0.12 mg/L	2.88 NTU	-61.6 mV	9.47 ft	400.00 ml/min
3/9/2023 12:00 PM	25:00	6.92 pH	23.09 °C	269.34 µS/cm	0.12 mg/L	2.56 NTU	-61.0 mV	9.50 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-6D	Sample time 1212

Low-Flow Test Report:

Test Date / Time: 3/13/2023 8:55:37 AM

Project: Watson CCR APMW-9

Operator Name: Todd a Voreis

Location Name: Watson CCR 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: 22.55 ft	Pump Type: QED Tubing Type: PE Pump Intake From TOC: 37.5 ft Estimated Total Volume Pumped: 10500 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: 994415
--	--	---

Test Notes:

Ferrous Fe = 2.0 mg/L

H2S = 0 mg/L

Weather Conditions:

Sunny, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
3/13/2023 8:55 AM	00:00	6.07 pH	14.98 °C	10,200 µS/cm	6.77 mg/L		55.9 mV	22.55 ft	400.00 ml/min
3/13/2023 9:00 AM	05:00	6.19 pH	20.96 °C	9,576.1 µS/cm	0.17 mg/L	3.71 NTU	-1.2 mV	22.64 ft	400.00 ml/min
3/13/2023 9:05 AM	10:00	6.21 pH	21.21 °C	9,479.4 µS/cm	0.13 mg/L	2.63 NTU	-14.2 mV	22.64 ft	400.00 ml/min
3/13/2023 9:10 AM	15:00	6.21 pH	21.34 °C	9,436.7 µS/cm	0.12 mg/L	1.24 NTU	-19.0 mV	22.62 ft	400.00 ml/min
3/13/2023 9:11 AM	16:15	6.22 pH	21.32 °C	9,465.2 µS/cm	0.12 mg/L	1.24 NTU	-18.9 mV	22.62 ft	400.00 ml/min
3/13/2023 9:16 AM	21:15	6.22 pH	21.32 °C	9,410.5 µS/cm	0.12 mg/L	0.95 NTU	-31.8 mV	22.62 ft	400.00 ml/min
3/13/2023 9:21 AM	26:15	6.22 pH	21.36 °C	9,432.8 µS/cm	0.12 mg/L	0.63 NTU	-23.2 mV	22.62 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-9	Sample time 0933

Low-Flow Test Report:

Test Date / Time: 3/14/2023 12:59:01 PM

Project: Watson CCR APMW-12

Operator Name: Todd Voreis

Location Name: Watson CCR APMW-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 44.1 ft Total Depth: 54.1 ft Initial Depth to Water: 16.33 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 39.1 ft Estimated Total Volume Pumped: 10000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.05 ft	Instrument Used: Aqua TROLL 400 Serial Number: 994415
---	---	---

Test Notes:

Ferrous Fe = 3.12 mg/L

H2S = 0 mg/L

Weather Conditions:

Sunny, 57 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
3/14/2023 12:59 PM	00:00	5.95 pH	19.63 °C	227.20 µS/cm	7.84 mg/L		0.5 mV	16.33 ft	400.00 ml/min
3/14/2023 1:04 PM	05:00	6.01 pH	21.32 °C	164.52 µS/cm	0.17 mg/L	1.27 NTU	-13.2 mV	16.38 ft	400.00 ml/min
3/14/2023 1:09 PM	10:00	6.05 pH	21.45 °C	164.60 µS/cm	0.13 mg/L	0.52 NTU	-5.0 mV	16.38 ft	400.00 ml/min
3/14/2023 1:14 PM	15:00	6.08 pH	21.56 °C	162.93 µS/cm	0.10 mg/L	0.60 NTU	-4.2 mV	16.38 ft	400.00 ml/min
3/14/2023 1:19 PM	20:00	6.09 pH	21.40 °C	162.20 µS/cm	0.09 mg/L	0.48 NTU	-4.1 mV	16.38 ft	400.00 ml/min
3/14/2023 1:24 PM	25:00	6.11 pH	21.47 °C	162.27 µS/cm	0.08 mg/L	0.36 NTU	-4.6 mV	16.38 ft	400.00 ml/min

Samples

Sample ID:	Description:
APMW-12	Sample time 1335

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

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

Generated 4/24/2023 1:48:08 PM

JOB DESCRIPTION

Plant Watson Ash Pond

JOB NUMBER

180-153324-1

Eurofins Pittsburgh

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Pittsburgh and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Pittsburgh Project Manager or designee who has signed this report.

PA Lab ID: 02-00416

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

Authorization



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



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions/Glossary	6
Certification Summary	7
Sample Summary	8
Method Summary	9
Lab Chronicle	10
Client Sample Results	18
QC Sample Results	28
QC Association Summary	36
Chain of Custody	41
Receipt Checklists	45

Case Narrative

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

Job ID: 180-153324-1

Job ID: 180-153324-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-153324-1

Comments

No additional comments.

Receipt

The samples were received on 3/9/2023 9:30 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 1.2° C, 2.3° C and 3.9° C.

Receipt Exceptions

The following samples were listed on the Chain of Custody (COC); however, no samples were received: APMW-11 (180-153324-1), DUP-01 (180-153324-2), APMW-1R (180-153324-3) and APMW-2 (180-153324-4). The missing samples were received on 3/14/23

GC Semi VOA

Method 300.0: The following sample was diluted due to the nature of the sample matrix: APMW-3 (180-153324-6) and DUP-02 (180-153324-8). Elevated reporting limits (RLs) are provided.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-428804 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: APMW-4 (180-153324-9). Elevated reporting limits (RLs) are provided.

Method 300.0: The following sample was diluted due to the nature of the sample matrix: APMW-4D (180-153324-10). Elevated reporting limits (RLs) are provided.

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: APMW-4D (180-153324-10). Elevated reporting limits (RLs) are provided.

Methods 300.0, 9056A: The following samples were diluted due to the nature of the sample matrix: APMW-1R (180-153324-3) and APMW-2 (180-153324-4). 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.

Metals

Method 6020B: The continuing calibration verification (CCV) associated with batch 180-432609 recovered above the upper control limit for beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: APMW-11 (180-153324-1), DUP-01 (180-153324-2), APMW-1R (180-153324-3), APMW-2 (180-153324-4), APMW-2D (180-153324-5), APMW-3 (180-153324-6), APMW-3D (180-153324-7), DUP-02 (180-153324-8), APMW-4 (180-153324-9), APMW-4D (180-153324-10), (CCV 180-432609/161) and (CCV 180-432609/172).

Method 6020B: The following samples were diluted to bring the concentration of target analytes within the calibration range: APMW-1R (180-153324-3), APMW-2 (180-153324-4), APMW-2D (180-153324-5), APMW-3 (180-153324-6), APMW-3D (180-153324-7), DUP-02 (180-153324-8), APMW-4 (180-153324-9) and APMW-4D (180-153324-10). Elevated reporting limits (RLs) are provided.

Method 6020B: The following samples were diluted to bring the concentration of target analytes within the calibration range: APMW-11 (180-153324-1), DUP-01 (180-153324-2), APMW-1R (180-153324-3), APMW-2 (180-153324-4), APMW-2D (180-153324-5), APMW-3 (180-153324-6), APMW-3D (180-153324-7), DUP-02 (180-153324-8), APMW-4 (180-153324-9) and APMW-4D (180-153324-10). 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

Case Narrative

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

Job ID: 180-153324-1

Job ID: 180-153324-1 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

Method SM 5310C: The sample duplicate precision for the following sample associated with analytical batch 180-430212 was outside control limits: APMW-11 (180-153324-1). The associated Laboratory Control Sample (LCS) precision met acceptance criteria. Sample is ND.

Methods 9060A, SM 5310C: The continuing calibration verification (CCV) associated with batch 180-431142 recovered above the upper control limit for Total Organic Carbon - Quad. Insufficient sample was provided for reanalysis, therefore, the samples associated with the CCV have been reported. DUP-01 (180-153324-2), APMW-1R (180-153324-3) and APMW-2 (180-153324-4)

Method SM 5310C: Sample result RSD exceeded +/- 10% for method 5310C. There was insufficient sample for reanalysis; therefore, sample result will be reported with this qualification. APMW-1R (180-153324-3)

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: 180-153324-1

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
^+	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.

General Chemistry

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
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: 180-153324-1

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	06-27-23
California	State	2891	04-30-23
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	06-30-23
Kansas	NELAP	E-10350	01-31-24
Kentucky (UST)	State	162013	04-30-23
Kentucky (WW)	State	KY98043	12-31-23
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-23
New Hampshire	NELAP	2030	04-04-24
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-01-24
North Carolina (WW/SW)	State	434	12-31-23
North Dakota	State	R-227	04-30-23
Oregon	NELAP	PA-2151	02-06-24
Pennsylvania	NELAP	02-00416	04-30-24
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-23
Texas	NELAP	T104704528	03-31-24
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-31-23
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	03-31-23 *
Wisconsin	State	998027800	08-31-23

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



Sample Summary

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

Job ID: 180-153324-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-153324-1	APMW-11	Water	03/07/23 11:17	03/14/23 10:25
180-153324-2	DUP-01	Water	03/07/23 10:17	03/14/23 10:25
180-153324-3	APMW-1R	Water	03/08/23 08:26	03/14/23 10:25
180-153324-4	APMW-2	Water	03/08/23 10:25	03/14/23 10:25
180-153324-5	APMW-2D	Water	03/08/23 11:02	03/09/23 09:30
180-153324-6	APMW-3	Water	03/08/23 14:10	03/09/23 09:30
180-153324-7	APMW-3D	Water	03/08/23 12:48	03/09/23 09:30
180-153324-8	DUP-02	Water	03/08/23 13:10	03/09/23 09:30
180-153324-9	APMW-4	Water	03/08/23 15:07	03/09/23 09:30
180-153324-10	APMW-4D	Water	03/08/23 16:07	03/09/23 09:30

- 1
- 2
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- 11
- 12
- 13

Method Summary

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

Job ID: 180-153324-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET PIT
EPA 6020B	Metals (ICP/MS)	SW846	EET PIT
EPA 7470A	Mercury (CVAA)	SW846	EET PIT
5310 C-2014	Total Organic Carbon/Persulfate - Ultrav	SM	EET PIT
EPA 353.2	Nitrogen, Nitrate-Nitrite	EPA	EET PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PIT
SM2320 B	Alkalinity, Total	SM18	EET PIT
Field Sampling	Field Sampling	EPA	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
7470A	Preparation, Mercury	SW846	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

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:

EET 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: 180-153324-1

Client Sample ID: APMW-11

Lab Sample ID: 180-153324-1

Date Collected: 03/07/23 11:17

Matrix: Water

Date Received: 03/14/23 10:25

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	1 mL	1 mL	430454	03/28/23 00:24	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432968	04/20/23 15:36	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		5			433148	04/21/23 17:56	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 01:41	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	429885	03/21/23 11:48	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 18:23	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	430212	03/21/23 23:00	LWM	EET PIT
Instrument ID: TOC1030										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	429465	03/16/23 10:44	SNR	EET PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	429173	03/14/23 16:38	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			429381	03/15/23 19:28	MAM	EET PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			431326	03/07/23 11:17	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01

Lab Sample ID: 180-153324-2

Date Collected: 03/07/23 10:17

Matrix: Water

Date Received: 03/14/23 10:25

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	1 mL	1 mL	430454	03/28/23 01:33	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432968	04/20/23 15:43	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		5			433148	04/21/23 18:00	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 01:45	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	429885	03/21/23 11:48	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 18:24	RJR	EET PIT
Instrument ID: HGZ										

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Lab Chronicle

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

Job ID: 180-153324-1

Client Sample ID: DUP-01
Date Collected: 03/07/23 10:17
Date Received: 03/14/23 10:25

Lab Sample ID: 180-153324-2
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	5310 C-2014		1	40 mL	40 mL	431142	04/01/23 02:25	LWM	EET PIT
Total/NA	Analysis	EPA 353.2 Instrument ID: ASTORIA2		1	10 mL	10 mL	429465	03/16/23 10:50	SNR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	429181	03/14/23 17:23	LWM	EET PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			429381	03/15/23 19:33	MAM	EET PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			431326	03/07/23 10:17	FDS	EET PIT

Client Sample ID: APMW-1R
Date Collected: 03/08/23 08:26
Date Received: 03/14/23 10:25

Lab Sample ID: 180-153324-3
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 Instrument ID: CHIC2100A		1	1 mL	1 mL	430454	03/28/23 01:47	SNL	EET PIT
Total/NA	Analysis	300.0 Instrument ID: CHIC2100A		10	1 mL	1 mL	430454	03/28/23 02:01	SNL	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		5			432968	04/20/23 15:50	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		5			433148	04/21/23 18:03	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: DORY		1			432609	04/18/23 01:49	RSK	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429885	03/21/23 11:48	RJR	EET PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			429969	03/21/23 18:28	RJR	EET PIT
Total/NA	Analysis	5310 C-2014 Instrument ID: SAM		1	40 mL	40 mL	431142	04/01/23 02:49	LWM	EET PIT
Total/NA	Analysis	EPA 353.2 Instrument ID: ASTORIA2		1	10 mL	10 mL	429465	03/16/23 10:51	SNR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	20 mL	100 mL	429181	03/14/23 17:23	LWM	EET PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			429381	03/15/23 19:38	MAM	EET PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			431326	03/08/23 08:26	FDS	EET PIT

Lab Chronicle

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

Job ID: 180-153324-1

Client Sample ID: APMW-2
Date Collected: 03/08/23 10:25
Date Received: 03/14/23 10:25

Lab Sample ID: 180-153324-4
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		1	1 mL	1 mL	430454	03/28/23 02:15	SNL	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		10	1 mL	1 mL	430454	03/28/23 02:29	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		5			432968	04/20/23 16:01	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		5			433148	04/21/23 18:13	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 02:03	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	429885	03/21/23 11:48	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 18:29	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	431142	04/01/23 03:13	LWM	EET PIT
Instrument ID: SAM										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	429465	03/16/23 10:53	SNR	EET PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	429181	03/14/23 17:23	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			429381	03/15/23 19:45	MAM	EET PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			431326	03/08/23 10:25	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-2D
Date Collected: 03/08/23 11:02
Date Received: 03/09/23 09:30

Lab Sample ID: 180-153324-5
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		1	1 mL	1 mL	428804	03/11/23 02:12	M1D	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432968	04/20/23 16:18	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		5			433148	04/21/23 18:17	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 02:18	RSK	EET PIT
Instrument ID: DORY										

Lab Chronicle

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

Job ID: 180-153324-1

Client Sample ID: APMW-2D

Lab Sample ID: 180-153324-5

Date Collected: 03/08/23 11:02

Matrix: Water

Date Received: 03/09/23 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	7470A			25 mL	25 mL	429851	03/21/23 08:58	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 16:15	RJR	EET PIT
		Instrument ID: HGZ								
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	430212	03/22/23 13:51	LWM	EET PIT
		Instrument ID: TOC1030								
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	429465	03/16/23 10:55	SNR	EET PIT
		Instrument ID: ASTORIA2								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	429173	03/14/23 16:38	LWM	EET PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			429079	03/13/23 20:19	MAM	EET PIT
		Instrument ID: PCTITRATOR								
Total/NA	Analysis	Field Sampling		1			431326	03/08/23 11:02	FDS	EET PIT
		Instrument ID: NOEQUIP								

Client Sample ID: APMW-3

Lab Sample ID: 180-153324-6

Date Collected: 03/08/23 14:10

Matrix: Water

Date Received: 03/09/23 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		2.5	1 mL	1 mL	428804	03/10/23 21:17	M1D	EET PIT
		Instrument ID: INTEGRION								
Total/NA	Analysis	300.0		25	1 mL	1 mL	428804	03/10/23 21:35	M1D	EET PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		5			432968	04/20/23 16:25	RSK	EET PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		10			432968	04/20/23 16:29	RSK	EET PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		5			433148	04/21/23 18:20	RSK	EET PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 02:22	RSK	EET PIT
		Instrument ID: DORY								
Total/NA	Prep	7470A			25 mL	25 mL	429851	03/21/23 08:58	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 16:16	RJR	EET PIT
		Instrument ID: HGZ								
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	430212	03/22/23 14:15	LWM	EET PIT
		Instrument ID: TOC1030								
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	429465	03/16/23 10:56	SNR	EET PIT
		Instrument ID: ASTORIA2								
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	429173	03/14/23 16:38	LWM	EET PIT
		Instrument ID: NOEQUIP								

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Lab Chronicle

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

Job ID: 180-153324-1

Client Sample ID: APMW-3
Date Collected: 03/08/23 14:10
Date Received: 03/09/23 09:30

Lab Sample ID: 180-153324-6
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	SM2320 B		1			429079	03/13/23 20:24	MAM	EET PIT
Total/NA	Analysis	Field Sampling		1			431326	03/08/23 14:10	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-3D
Date Collected: 03/08/23 12:48
Date Received: 03/09/23 09:30

Lab Sample ID: 180-153324-7
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	300.0		1	1 mL	1 mL	428804	03/10/23 21:54	M1D	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432968	04/20/23 16:32	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		10			433148	04/21/23 18:41	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 02:43	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	429851	03/21/23 08:58	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 16:21	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	430212	03/22/23 14:39	LWM	EET PIT
Instrument ID: TOC1030										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	429465	03/16/23 10:58	SNR	EET PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	429166	03/14/23 15:02	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			429079	03/13/23 20:31	MAM	EET PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			431326	03/08/23 12:48	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-02
Date Collected: 03/08/23 13:10
Date Received: 03/09/23 09:30

Lab Sample ID: 180-153324-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2.5	1 mL	1 mL	428804	03/10/23 22:12	M1D	EET PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		25	1 mL	1 mL	428804	03/10/23 22:31	M1D	EET PIT
Instrument ID: INTEGRION										

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Lab Chronicle

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

Job ID: 180-153324-1

Client Sample ID: DUP-02
Date Collected: 03/08/23 13:10
Date Received: 03/09/23 09:30

Lab Sample ID: 180-153324-8
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			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		5			432968	04/20/23 16:39	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		10			432968	04/20/23 16:42	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		5			433148	04/21/23 18:44	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 02:47	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	429851	03/21/23 08:58	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 16:22	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	430212	03/22/23 15:03	LWM	EET PIT
Instrument ID: TOC1030										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	429465	03/16/23 10:59	SNR	EET PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	429166	03/14/23 15:02	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			429079	03/13/23 20:37	MAM	EET PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			431326	03/08/23 13:10	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-4
Date Collected: 03/08/23 15:07
Date Received: 03/09/23 09:30

Lab Sample ID: 180-153324-9
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	1 mL	1 mL	428804	03/11/23 00:58	M1D	EET PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		10	1 mL	1 mL	428804	03/11/23 01:17	M1D	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		2			432968	04/20/23 16:56	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		2			433148	04/21/23 19:05	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 03:02	RSK	EET PIT
Instrument ID: DORY										

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Lab Chronicle

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

Job ID: 180-153324-1

Client Sample ID: APMW-4
Date Collected: 03/08/23 15:07
Date Received: 03/09/23 09:30

Lab Sample ID: 180-153324-9
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	7470A			25 mL	25 mL	429851	03/21/23 08:58	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 16:23	RJR	EET PIT
		Instrument ID: HGZ								
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	430212	03/22/23 16:22	LWM	EET PIT
		Instrument ID: TOC1030								
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	429465	03/16/23 11:01	SNR	EET PIT
		Instrument ID: ASTORIA2								
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	429173	03/14/23 16:38	LWM	EET PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			429079	03/13/23 20:44	MAM	EET PIT
		Instrument ID: PCTITRATOR								
Total/NA	Analysis	Field Sampling		1			431326	03/08/23 15:07	FDS	EET PIT
		Instrument ID: NOEQUIP								

Client Sample ID: APMW-4D
Date Collected: 03/08/23 16:07
Date Received: 03/09/23 09:30

Lab Sample ID: 180-153324-10
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	1 mL	1 mL	428804	03/11/23 01:35	M1D	EET PIT
		Instrument ID: INTEGRION								
Total/NA	Analysis	300.0		25	1 mL	1 mL	428804	03/11/23 01:54	M1D	EET PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		5			432968	04/20/23 17:03	RSK	EET PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		10			432968	04/20/23 17:07	RSK	EET PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		5			433148	04/21/23 19:09	RSK	EET PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 03:16	RSK	EET PIT
		Instrument ID: DORY								
Total/NA	Prep	7470A			25 mL	25 mL	429851	03/21/23 08:58	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 16:24	RJR	EET PIT
		Instrument ID: HGZ								
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	430212	03/22/23 16:46	LWM	EET PIT
		Instrument ID: TOC1030								
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	429465	03/16/23 11:15	SNR	EET PIT
		Instrument ID: ASTORIA2								
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	429173	03/14/23 16:38	LWM	EET PIT
		Instrument ID: NOEQUIP								

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Lab Chronicle

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

Job ID: 180-153324-1

Client Sample ID: APMW-4D

Lab Sample ID: 180-153324-10

Date Collected: 03/08/23 16:07

Matrix: Water

Date Received: 03/09/23 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	SM2320 B		1			429079	03/13/23 21:00	MAM	EET PIT
Total/NA	Analysis	Field Sampling		1			431326	03/08/23 16:07	FDS	EET PIT
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: EET PIT

Batch Type: Prep

HCY = Harrison Yaeger

RJR = Ron Rosenbaum

Batch Type: Analysis

FDS = Sampler Field

LWM = Leslie McIntire

M1D = Maureen Donlin

MAM = Matthew Martin

RJR = Ron Rosenbaum

RSK = Robert Kurtz

SNL = Sean Lordo

SNR = Sabra Richart

Client Sample Results

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

Job ID: 180-153324-1

Client Sample ID: APMW-11

Lab Sample ID: 180-153324-1

Date Collected: 03/07/23 11:17

Matrix: Water

Date Received: 03/14/23 10:25

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.11		0.10	0.053	mg/L			03/28/23 00:24	1
Chloride	7.7		1.0	0.71	mg/L			03/28/23 00:24	1
Fluoride	0.051	J	0.20	0.026	mg/L			03/28/23 00:24	1
Sulfate	0.82	J	1.0	0.76	mg/L			03/28/23 00:24	1

Method: SW846 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		03/16/23 16:30	04/18/23 01:41	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 01:41	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 01:41	1
Barium	0.034		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 01:41	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 01:41	1
Boron	<0.060		0.080	0.060	mg/L		03/16/23 16:30	04/20/23 15:36	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 01:41	1
Calcium	9.7		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 01:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 01:41	1
Cobalt	0.00041	J	0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 01:41	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 01:41	1
Lithium	0.011		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 01:41	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 01:41	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 01:41	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 01:41	1
Iron	2.0		0.25	0.14	mg/L		03/16/23 16:30	04/21/23 17:56	5
Potassium	1.1		0.50	0.16	mg/L		03/16/23 16:30	04/18/23 01:41	1
Magnesium	1.4		0.50	0.050	mg/L		03/16/23 16:30	04/18/23 01:41	1
Manganese	0.037		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 01:41	1
Sodium	7.2	B	0.50	0.18	mg/L		03/16/23 16:30	04/18/23 01:41	1
Silicon	14		2.5	0.31	mg/L		03/16/23 16:30	04/21/23 17:56	5
Strontium	0.040		0.0050	0.0017	mg/L		03/16/23 16:30	04/18/23 01:41	1
SiO2, Silica	31		5.4	0.76	mg/L		03/16/23 16:30	04/21/23 17:56	5

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 11:48	03/21/23 18:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	0.62	J	1.0	0.51	mg/L			03/21/23 23:00	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/16/23 10:44	1
Total Dissolved Solids (SM 2540C)	86		10	10	mg/L			03/14/23 16:38	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	42		5.0	5.0	mg/L			03/15/23 19:28	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	42		5.0	5.0	mg/L			03/15/23 19:28	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/15/23 19:28	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.17				SU			03/07/23 11:17	1

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Client Sample Results

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

Job ID: 180-153324-1

Client Sample ID: DUP-01

Lab Sample ID: 180-153324-2

Date Collected: 03/07/23 10:17

Matrix: Water

Date Received: 03/14/23 10:25

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.11		0.10	0.053	mg/L			03/28/23 01:33	1
Chloride	7.7		1.0	0.71	mg/L			03/28/23 01:33	1
Fluoride	0.051	J	0.20	0.026	mg/L			03/28/23 01:33	1
Sulfate	0.77	J	1.0	0.76	mg/L			03/28/23 01:33	1

Method: SW846 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		03/16/23 16:30	04/18/23 01:45	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 01:45	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 01:45	1
Barium	0.033		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 01:45	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 01:45	1
Boron	<0.060		0.080	0.060	mg/L		03/16/23 16:30	04/20/23 15:43	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 01:45	1
Calcium	9.5		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 01:45	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 01:45	1
Cobalt	0.00041	J	0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 01:45	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 01:45	1
Lithium	0.010		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 01:45	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 01:45	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 01:45	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 01:45	1
Iron	1.9		0.25	0.14	mg/L		03/16/23 16:30	04/21/23 18:00	5
Potassium	1.0		0.50	0.16	mg/L		03/16/23 16:30	04/18/23 01:45	1
Magnesium	1.3		0.50	0.050	mg/L		03/16/23 16:30	04/18/23 01:45	1
Manganese	0.036		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 01:45	1
Sodium	7.1	B	0.50	0.18	mg/L		03/16/23 16:30	04/18/23 01:45	1
Silicon	13		2.5	0.31	mg/L		03/16/23 16:30	04/21/23 18:00	5
Strontium	0.040		0.0050	0.0017	mg/L		03/16/23 16:30	04/18/23 01:45	1
SiO2, Silica	29		5.4	0.76	mg/L		03/16/23 16:30	04/21/23 18:00	5

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 11:48	03/21/23 18:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	<0.51	^+	1.0	0.51	mg/L			04/01/23 02:25	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/16/23 10:50	1
Total Dissolved Solids (SM 2540C)	77		10	10	mg/L			03/14/23 17:23	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	43		5.0	5.0	mg/L			03/15/23 19:33	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	43		5.0	5.0	mg/L			03/15/23 19:33	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/15/23 19:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.17				SU			03/07/23 10:17	1

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Client Sample Results

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

Job ID: 180-153324-1

Client Sample ID: APMW-1R

Lab Sample ID: 180-153324-3

Date Collected: 03/08/23 08:26

Matrix: Water

Date Received: 03/14/23 10:25

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	10		0.10	0.053	mg/L			03/28/23 01:47	1
Chloride	2300		10	7.1	mg/L			03/28/23 02:01	10
Fluoride	0.086	J	0.20	0.026	mg/L			03/28/23 01:47	1
Sulfate	5.0		1.0	0.76	mg/L			03/28/23 01:47	1

Method: SW846 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		03/16/23 16:30	04/18/23 01:49	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 01:49	1
Arsenic	0.00040	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 01:49	1
Barium	1.8		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 01:49	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 01:49	1
Boron	5.3		0.40	0.30	mg/L		03/16/23 16:30	04/20/23 15:50	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 01:49	1
Calcium	190		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 01:49	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 01:49	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 01:49	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 01:49	1
Lithium	0.019		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 01:49	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 01:49	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 01:49	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 01:49	1
Iron	85		0.25	0.14	mg/L		03/16/23 16:30	04/21/23 18:03	5
Potassium	56		0.50	0.16	mg/L		03/16/23 16:30	04/18/23 01:49	1
Magnesium	76		0.50	0.050	mg/L		03/16/23 16:30	04/18/23 01:49	1
Manganese	0.25		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 01:49	1
Sodium	1400		2.5	0.92	mg/L		03/16/23 16:30	04/20/23 15:50	5
Silicon	12		2.5	0.31	mg/L		03/16/23 16:30	04/21/23 18:03	5
Strontium	1.7		0.0050	0.0017	mg/L		03/16/23 16:30	04/18/23 01:49	1
SiO2, Silica	27		5.4	0.76	mg/L		03/16/23 16:30	04/21/23 18:03	5

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 11:48	03/21/23 18:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	6.7	^+	1.0	0.51	mg/L			04/01/23 02:49	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/16/23 10:51	1
Total Dissolved Solids (SM 2540C)	4400		50	50	mg/L			03/14/23 17:23	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	350		5.0	5.0	mg/L			03/15/23 19:38	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	350		5.0	5.0	mg/L			03/15/23 19:38	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/15/23 19:38	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.23				SU			03/08/23 08:26	1

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Client Sample Results

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

Job ID: 180-153324-1

Client Sample ID: APMW-2

Lab Sample ID: 180-153324-4

Date Collected: 03/08/23 10:25

Matrix: Water

Date Received: 03/14/23 10:25

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	10		0.10	0.053	mg/L			03/28/23 02:15	1
Chloride	2400		10	7.1	mg/L			03/28/23 02:29	10
Fluoride	0.068	J	0.20	0.026	mg/L			03/28/23 02:15	1
Sulfate	5.6		1.0	0.76	mg/L			03/28/23 02:15	1

Method: SW846 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		03/16/23 16:30	04/18/23 02:03	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 02:03	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 02:03	1
Barium	3.6		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 02:03	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 02:03	1
Boron	3.6		0.40	0.30	mg/L		03/16/23 16:30	04/20/23 16:01	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 02:03	1
Calcium	370		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 02:03	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 02:03	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 02:03	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 02:03	1
Lithium	0.036		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 02:03	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 02:03	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 02:03	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 02:03	1
Iron	170		0.25	0.14	mg/L		03/16/23 16:30	04/21/23 18:13	5
Potassium	37		0.50	0.16	mg/L		03/16/23 16:30	04/18/23 02:03	1
Magnesium	60		0.50	0.050	mg/L		03/16/23 16:30	04/18/23 02:03	1
Manganese	1.3		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 02:03	1
Sodium	1000		2.5	0.92	mg/L		03/16/23 16:30	04/20/23 16:01	5
Silicon	18		2.5	0.31	mg/L		03/16/23 16:30	04/21/23 18:13	5
Strontium	3.6		0.0050	0.0017	mg/L		03/16/23 16:30	04/18/23 02:03	1
SiO2, Silica	38		5.4	0.76	mg/L		03/16/23 16:30	04/21/23 18:13	5

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 11:48	03/21/23 18:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	2.9	^+	1.0	0.51	mg/L			04/01/23 03:13	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/16/23 10:53	1
Total Dissolved Solids (SM 2540C)	4000		50	50	mg/L			03/14/23 17:23	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	72		5.0	5.0	mg/L			03/15/23 19:45	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	72		5.0	5.0	mg/L			03/15/23 19:45	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/15/23 19:45	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.88				SU			03/08/23 10:25	1

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Client Sample Results

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

Job ID: 180-153324-1

Client Sample ID: APMW-2D

Lab Sample ID: 180-153324-5

Date Collected: 03/08/23 11:02

Matrix: Water

Date Received: 03/09/23 09:30

Method: EPA 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			03/11/23 02:12	1
Chloride	4.7		1.0	0.71	mg/L			03/11/23 02:12	1
Fluoride	0.18	J	0.20	0.026	mg/L			03/11/23 02:12	1
Sulfate	4.3		1.0	0.76	mg/L			03/11/23 02:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.016	J	0.030	0.016	mg/L		03/16/23 16:30	04/18/23 02:18	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 02:18	1
Arsenic	0.0032		0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 02:18	1
Barium	0.060		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 02:18	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 02:18	1
Boron	0.11		0.080	0.060	mg/L		03/16/23 16:30	04/20/23 16:18	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 02:18	1
Calcium	2.8		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 02:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 02:18	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 02:18	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 02:18	1
Lithium	0.011		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 02:18	1
Molybdenum	0.0011	J	0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 02:18	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 02:18	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 02:18	1
Iron	0.51		0.25	0.14	mg/L		03/16/23 16:30	04/21/23 18:17	5
Potassium	1.8		0.50	0.16	mg/L		03/16/23 16:30	04/18/23 02:18	1
Magnesium	1.1		0.50	0.050	mg/L		03/16/23 16:30	04/18/23 02:18	1
Manganese	0.11		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 02:18	1
Sodium	41	B	0.50	0.18	mg/L		03/16/23 16:30	04/18/23 02:18	1
Silicon	23		2.5	0.31	mg/L		03/16/23 16:30	04/21/23 18:17	5
Strontium	0.057		0.0050	0.0017	mg/L		03/16/23 16:30	04/18/23 02:18	1
SiO2, Silica	50		5.4	0.76	mg/L		03/16/23 16:30	04/21/23 18:17	5

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 08:58	03/21/23 16:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	<0.51		1.0	0.51	mg/L			03/22/23 13:51	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/16/23 10:55	1
Total Dissolved Solids (SM 2540C)	150		10	10	mg/L			03/14/23 16:38	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	99		5.0	5.0	mg/L			03/13/23 20:19	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	99		5.0	5.0	mg/L			03/13/23 20:19	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/13/23 20:19	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.13				SU			03/08/23 11:02	1

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Client Sample Results

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

Job ID: 180-153324-1

Client Sample ID: APMW-3

Lab Sample ID: 180-153324-6

Date Collected: 03/08/23 14:10

Matrix: Water

Date Received: 03/09/23 09:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	28		0.25	0.13	mg/L			03/10/23 21:17	2.5
Chloride	8800		25	18	mg/L			03/10/23 21:35	25
Fluoride	0.19	J	0.50	0.065	mg/L			03/10/23 21:17	2.5
Sulfate	960		2.5	1.9	mg/L			03/10/23 21:17	2.5

Method: SW846 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		03/16/23 16:30	04/18/23 02:22	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 02:22	1
Arsenic	0.072		0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 02:22	1
Barium	0.11		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 02:22	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 02:22	1
Boron	5.7		0.40	0.30	mg/L		03/16/23 16:30	04/20/23 16:25	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 02:22	1
Calcium	320		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 02:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 02:22	1
Cobalt	0.0023	J	0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 02:22	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 02:22	1
Lithium	0.077		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 02:22	1
Molybdenum	0.064		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 02:22	1
Selenium	0.0014	J	0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 02:22	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 02:22	1
Iron	5.7		0.25	0.14	mg/L		03/16/23 16:30	04/21/23 18:20	5
Potassium	170		0.50	0.16	mg/L		03/16/23 16:30	04/18/23 02:22	1
Magnesium	560		0.50	0.050	mg/L		03/16/23 16:30	04/18/23 02:22	1
Manganese	0.31		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 02:22	1
Sodium	6100		5.0	1.8	mg/L		03/16/23 16:30	04/20/23 16:29	10
Silicon	8.0		2.5	0.31	mg/L		03/16/23 16:30	04/21/23 18:20	5
Strontium	7.4		0.0050	0.0017	mg/L		03/16/23 16:30	04/18/23 02:22	1
SiO2, Silica	17		5.4	0.76	mg/L		03/16/23 16:30	04/21/23 18:20	5

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 08:58	03/21/23 16:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	3.4		1.0	0.51	mg/L			03/22/23 14:15	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/16/23 10:56	1
Total Dissolved Solids (SM 2540C)	17000		200	200	mg/L			03/14/23 16:38	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	370		5.0	5.0	mg/L			03/13/23 20:24	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	370		5.0	5.0	mg/L			03/13/23 20:24	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/13/23 20:24	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.53				SU			03/08/23 14:10	1

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Client Sample Results

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

Job ID: 180-153324-1

Client Sample ID: APMW-3D

Lab Sample ID: 180-153324-7

Date Collected: 03/08/23 12:48

Matrix: Water

Date Received: 03/09/23 09:30

Method: EPA 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			03/10/23 21:54	1
Chloride	16		1.0	0.71	mg/L			03/10/23 21:54	1
Fluoride	0.14	J	0.20	0.026	mg/L			03/10/23 21:54	1
Sulfate	6.2		1.0	0.76	mg/L			03/10/23 21:54	1

Method: SW846 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		03/16/23 16:30	04/18/23 02:43	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 02:43	1
Arsenic	0.0027		0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 02:43	1
Barium	0.16		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 02:43	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 02:43	1
Boron	0.13		0.080	0.060	mg/L		03/16/23 16:30	04/20/23 16:32	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 02:43	1
Calcium	10		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 02:43	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 02:43	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 02:43	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 02:43	1
Lithium	0.012		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 02:43	1
Molybdenum	0.00074	J	0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 02:43	1
Selenium	0.0012	J	0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 02:43	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 02:43	1
Iron	1.7		0.50	0.28	mg/L		03/16/23 16:30	04/21/23 18:41	10
Potassium	2.0		0.50	0.16	mg/L		03/16/23 16:30	04/18/23 02:43	1
Magnesium	2.7		0.50	0.050	mg/L		03/16/23 16:30	04/18/23 02:43	1
Manganese	0.12		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 02:43	1
Sodium	33	B	0.50	0.18	mg/L		03/16/23 16:30	04/18/23 02:43	1
Silicon	27		5.0	0.62	mg/L		03/16/23 16:30	04/21/23 18:41	10
Strontium	0.30		0.0050	0.0017	mg/L		03/16/23 16:30	04/18/23 02:43	1
SiO2, Silica	58		11	1.5	mg/L		03/16/23 16:30	04/21/23 18:41	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 08:58	03/21/23 16:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	<0.51		1.0	0.51	mg/L			03/22/23 14:39	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/16/23 10:58	1
Total Dissolved Solids (SM 2540C)	180		10	10	mg/L			03/14/23 15:02	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	94		5.0	5.0	mg/L			03/13/23 20:31	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	94		5.0	5.0	mg/L			03/13/23 20:31	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/13/23 20:31	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.44				SU			03/08/23 12:48	1

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Client Sample Results

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

Job ID: 180-153324-1

Client Sample ID: DUP-02

Lab Sample ID: 180-153324-8

Date Collected: 03/08/23 13:10

Matrix: Water

Date Received: 03/09/23 09:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	28		0.25	0.13	mg/L			03/10/23 22:12	2.5
Chloride	9100		25	18	mg/L			03/10/23 22:31	25
Fluoride	0.093	J	0.50	0.065	mg/L			03/10/23 22:12	2.5
Sulfate	960		2.5	1.9	mg/L			03/10/23 22:12	2.5

Method: SW846 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		03/16/23 16:30	04/18/23 02:47	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 02:47	1
Arsenic	0.069		0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 02:47	1
Barium	0.10		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 02:47	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 02:47	1
Boron	5.8		0.40	0.30	mg/L		03/16/23 16:30	04/20/23 16:39	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 02:47	1
Calcium	310		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 02:47	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 02:47	1
Cobalt	0.0022	J	0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 02:47	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 02:47	1
Lithium	0.072		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 02:47	1
Molybdenum	0.062		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 02:47	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 02:47	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 02:47	1
Iron	5.2		0.25	0.14	mg/L		03/16/23 16:30	04/21/23 18:44	5
Potassium	170		0.50	0.16	mg/L		03/16/23 16:30	04/18/23 02:47	1
Magnesium	550		0.50	0.050	mg/L		03/16/23 16:30	04/18/23 02:47	1
Manganese	0.29		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 02:47	1
Sodium	5800		5.0	1.8	mg/L		03/16/23 16:30	04/20/23 16:42	10
Silicon	7.5		2.5	0.31	mg/L		03/16/23 16:30	04/21/23 18:44	5
Strontium	6.9		0.0050	0.0017	mg/L		03/16/23 16:30	04/18/23 02:47	1
SiO2, Silica	16		5.4	0.76	mg/L		03/16/23 16:30	04/21/23 18:44	5

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 08:58	03/21/23 16:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	3.4		1.0	0.51	mg/L			03/22/23 15:03	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/16/23 10:59	1
Total Dissolved Solids (SM 2540C)	17000		200	200	mg/L			03/14/23 15:02	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	370		5.0	5.0	mg/L			03/13/23 20:37	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	370		5.0	5.0	mg/L			03/13/23 20:37	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/13/23 20:37	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.53				SU			03/08/23 13:10	1

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Client Sample Results

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

Job ID: 180-153324-1

Client Sample ID: APMW-4

Lab Sample ID: 180-153324-9

Date Collected: 03/08/23 15:07

Matrix: Water

Date Received: 03/09/23 09:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	7.8		0.10	0.053	mg/L			03/11/23 00:58	1
Chloride	2400		10	7.1	mg/L			03/11/23 01:17	10
Fluoride	0.25		0.20	0.026	mg/L			03/11/23 00:58	1
Sulfate	210		1.0	0.76	mg/L			03/11/23 00:58	1

Method: SW846 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		03/16/23 16:30	04/18/23 03:02	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 03:02	1
Arsenic	0.0075		0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 03:02	1
Barium	0.17		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 03:02	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 03:02	1
Boron	0.89		0.16	0.12	mg/L		03/16/23 16:30	04/20/23 16:56	2
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 03:02	1
Calcium	120		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 03:02	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 03:02	1
Cobalt	0.0030		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 03:02	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 03:02	1
Lithium	0.041		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 03:02	1
Molybdenum	0.0042	J	0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 03:02	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 03:02	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 03:02	1
Iron	3.0		0.10	0.055	mg/L		03/16/23 16:30	04/21/23 19:05	2
Potassium	46		0.50	0.16	mg/L		03/16/23 16:30	04/18/23 03:02	1
Magnesium	150		0.50	0.050	mg/L		03/16/23 16:30	04/18/23 03:02	1
Manganese	1.5		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 03:02	1
Sodium	1200		1.0	0.37	mg/L		03/16/23 16:30	04/20/23 16:56	2
Silicon	17		1.0	0.12	mg/L		03/16/23 16:30	04/21/23 19:05	2
Strontium	1.7		0.0050	0.0017	mg/L		03/16/23 16:30	04/18/23 03:02	1
SiO2, Silica	36		2.1	0.30	mg/L		03/16/23 16:30	04/21/23 19:05	2

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 08:58	03/21/23 16:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	6.3		1.0	0.51	mg/L			03/22/23 16:22	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/16/23 11:01	1
Total Dissolved Solids (SM 2540C)	4600		50	50	mg/L			03/14/23 16:38	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	200		5.0	5.0	mg/L			03/13/23 20:44	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	200		5.0	5.0	mg/L			03/13/23 20:44	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/13/23 20:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.26				SU			03/08/23 15:07	1

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Client Sample Results

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

Job ID: 180-153324-1

Client Sample ID: APMW-4D

Lab Sample ID: 180-153324-10

Date Collected: 03/08/23 16:07

Matrix: Water

Date Received: 03/09/23 09:30

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	25		0.25	0.13	mg/L			03/11/23 01:35	2.5
Chloride	7800		25	18	mg/L			03/11/23 01:54	25
Fluoride	0.074	J	0.50	0.065	mg/L			03/11/23 01:35	2.5
Sulfate	710		2.5	1.9	mg/L			03/11/23 01:35	2.5

Method: SW846 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		03/16/23 16:30	04/18/23 03:16	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 03:16	1
Arsenic	0.0031		0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 03:16	1
Barium	0.083		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 03:16	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 03:16	1
Boron	3.9		0.40	0.30	mg/L		03/16/23 16:30	04/20/23 17:03	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 03:16	1
Calcium	230		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 03:16	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 03:16	1
Cobalt	0.0062		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 03:16	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 03:16	1
Lithium	0.072		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 03:16	1
Molybdenum	0.20		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 03:16	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 03:16	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 03:16	1
Iron	5.5		0.25	0.14	mg/L		03/16/23 16:30	04/21/23 19:09	5
Potassium	150		0.50	0.16	mg/L		03/16/23 16:30	04/18/23 03:16	1
Magnesium	430		0.50	0.050	mg/L		03/16/23 16:30	04/18/23 03:16	1
Manganese	0.36		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 03:16	1
Sodium	5500		5.0	1.8	mg/L		03/16/23 16:30	04/20/23 17:07	10
Silicon	10		2.5	0.31	mg/L		03/16/23 16:30	04/21/23 19:09	5
Strontium	4.0		0.0050	0.0017	mg/L		03/16/23 16:30	04/18/23 03:16	1
SiO2, Silica	21		5.4	0.76	mg/L		03/16/23 16:30	04/21/23 19:09	5

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 08:58	03/21/23 16:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	3.7		1.0	0.51	mg/L			03/22/23 16:46	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/16/23 11:15	1
Total Dissolved Solids (SM 2540C)	15000		200	200	mg/L			03/14/23 16:38	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	430		5.0	5.0	mg/L			03/13/23 21:00	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	430		5.0	5.0	mg/L			03/13/23 21:00	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/13/23 21:00	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.71				SU			03/08/23 16:07	1

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QC Sample Results

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

Job ID: 180-153324-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-428804/38
Matrix: Water
Analysis Batch: 428804

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			03/10/23 22:49	1
Chloride	<0.71		1.0	0.71	mg/L			03/10/23 22:49	1
Fluoride	<0.026		0.20	0.026	mg/L			03/10/23 22:49	1
Sulfate	<0.76		1.0	0.76	mg/L			03/10/23 22:49	1

Lab Sample ID: MB 180-428804/6
Matrix: Water
Analysis Batch: 428804

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			03/10/23 12:07	1
Chloride	<0.71		1.0	0.71	mg/L			03/10/23 12:07	1
Fluoride	<0.026		0.20	0.026	mg/L			03/10/23 12:07	1
Sulfate	<0.76		1.0	0.76	mg/L			03/10/23 12:07	1

Lab Sample ID: LCS 180-428804/39
Matrix: Water
Analysis Batch: 428804

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	9.85		mg/L		99	90 - 110
Chloride	50.0	49.4		mg/L		99	90 - 110
Fluoride	2.50	2.73		mg/L		109	90 - 110
Sulfate	50.0	51.3		mg/L		103	90 - 110

Lab Sample ID: LCS 180-428804/7
Matrix: Water
Analysis Batch: 428804

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	9.60		mg/L		96	90 - 110
Chloride	50.0	48.6		mg/L		97	90 - 110
Fluoride	2.50	2.73		mg/L		109	90 - 110
Sulfate	50.0	50.9		mg/L		102	90 - 110

Lab Sample ID: MB 180-430454/48
Matrix: Water
Analysis Batch: 430454

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			03/27/23 23:56	1
Chloride	<0.71		1.0	0.71	mg/L			03/27/23 23:56	1
Fluoride	<0.026		0.20	0.026	mg/L			03/27/23 23:56	1
Sulfate	<0.76		1.0	0.76	mg/L			03/27/23 23:56	1

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QC Sample Results

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

Job ID: 180-153324-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 180-430454/49
Matrix: Water
Analysis Batch: 430454

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	9.26		mg/L		93	90 - 110
Chloride	50.0	46.3		mg/L		93	90 - 110
Fluoride	2.50	2.45		mg/L		98	90 - 110
Sulfate	50.0	46.0		mg/L		92	90 - 110

Lab Sample ID: 180-153324-1 MS
Matrix: Water
Analysis Batch: 430454

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
Bromide	0.11		10.0	9.52		mg/L		94	90 - 110
Chloride	7.7		50.0	54.7		mg/L		94	90 - 110
Fluoride	0.051	J	2.50	2.53		mg/L		99	90 - 110
Sulfate	0.82	J	50.0	48.3		mg/L		95	90 - 110

Lab Sample ID: 180-153324-1 MSD
Matrix: Water
Analysis Batch: 430454

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	Limit
Bromide	0.11		10.0	9.21		mg/L		91	90 - 110	3	20
Chloride	7.7		50.0	53.2		mg/L		91	90 - 110	3	20
Fluoride	0.051	J	2.50	2.45		mg/L		96	90 - 110	3	20
Sulfate	0.82	J	50.0	46.4		mg/L		91	90 - 110	4	20

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

Lab Sample ID: MB 180-429462/1-A
Matrix: Water
Analysis Batch: 432609

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 429462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		03/16/23 16:30	04/18/23 00:28	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 00:28	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 00:28	1
Barium	<0.0031		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 00:28	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 00:28	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 00:28	1
Calcium	<0.13		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 00:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 00:28	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 00:28	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 00:28	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 00:28	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 00:28	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 00:28	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 00:28	1
Iron	<0.028		0.050	0.028	mg/L		03/16/23 16:30	04/18/23 00:28	1
Potassium	<0.16		0.50	0.16	mg/L		03/16/23 16:30	04/18/23 00:28	1
Magnesium	<0.050		0.50	0.050	mg/L		03/16/23 16:30	04/18/23 00:28	1

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QC Sample Results

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

Job ID: 180-153324-1

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

Lab Sample ID: MB 180-429462/1-A
Matrix: Water
Analysis Batch: 432609

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 429462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0013		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 00:28	1
Sodium	0.221	J	0.50	0.18	mg/L		03/16/23 16:30	04/18/23 00:28	1
Silicon	<0.062		0.50	0.062	mg/L		03/16/23 16:30	04/18/23 00:28	1
Strontium	<0.0017		0.0050	0.0017	mg/L		03/16/23 16:30	04/18/23 00:28	1
SiO2, Silica	<0.15		1.1	0.15	mg/L		03/16/23 16:30	04/18/23 00:28	1

Lab Sample ID: MB 180-429462/1-A
Matrix: Water
Analysis Batch: 432968

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 429462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		03/16/23 16:30	04/20/23 14:24	1

Lab Sample ID: LCS 180-429462/2-A
Matrix: Water
Analysis Batch: 432609

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 429462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5.00	4.28		mg/L		86	80 - 120
Antimony	0.250	0.251		mg/L		100	80 - 120
Arsenic	1.00	1.02		mg/L		102	80 - 120
Barium	1.00	0.954		mg/L		95	80 - 120
Beryllium	0.500	0.500	^+	mg/L		100	80 - 120
Cadmium	0.500	0.487		mg/L		97	80 - 120
Calcium	25.0	25.1		mg/L		101	80 - 120
Chromium	0.500	0.502		mg/L		100	80 - 120
Cobalt	0.500	0.442		mg/L		88	80 - 120
Lead	0.500	0.478		mg/L		96	80 - 120
Lithium	0.500	0.450		mg/L		90	80 - 120
Molybdenum	0.500	0.462		mg/L		92	80 - 120
Selenium	1.00	0.957		mg/L		96	80 - 120
Thallium	1.00	0.968		mg/L		97	80 - 120
Iron	5.00	5.06		mg/L		101	80 - 120
Potassium	25.0	23.4		mg/L		94	80 - 120
Magnesium	25.0	23.5		mg/L		94	80 - 120
Manganese	0.500	0.478		mg/L		96	80 - 120
Sodium	25.0	24.6		mg/L		98	80 - 120
Silicon	1.00	0.944		mg/L		94	80 - 120
Strontium	0.500	0.489		mg/L		98	80 - 120
SiO2, Silica	2.14	2.02		mg/L		94	80 - 120

Lab Sample ID: LCS 180-429462/2-A
Matrix: Water
Analysis Batch: 432968

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 429462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.13		mg/L		90	80 - 120

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QC Sample Results

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

Job ID: 180-153324-1

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-429851/1-A
Matrix: Water
Analysis Batch: 429969

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 429851

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 08:58	03/21/23 15:53	1

Lab Sample ID: LCS 180-429851/2-A
Matrix: Water
Analysis Batch: 429969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 429851

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00241		mg/L		96	80 - 120

Lab Sample ID: MB 180-429885/1-A
Matrix: Water
Analysis Batch: 429969

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 429885

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 11:47	03/21/23 18:07	1

Lab Sample ID: LCS 180-429885/2-A
Matrix: Water
Analysis Batch: 429969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 429885

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00249		mg/L		99	80 - 120

Method: 5310 C-2014 - Total Organic Carbon/Persulfate - Ultrav

Lab Sample ID: MB 180-430212/35
Matrix: Water
Analysis Batch: 430212

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 - Quad	<0.51		1.0	0.51	mg/L			03/22/23 04:21	1

Lab Sample ID: MB 180-430212/5
Matrix: Water
Analysis Batch: 430212

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 - Quad	<0.51		1.0	0.51	mg/L			03/21/23 16:03	1

Lab Sample ID: LCS 180-430212/34
Matrix: Water
Analysis Batch: 430212

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 - Quad	20.0	18.8		mg/L		94	85 - 115

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QC Sample Results

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

Job ID: 180-153324-1

Method: 5310 C-2014 - Total Organic Carbon/Persulfate - Ultrav (Continued)

Lab Sample ID: LCS 180-430212/4
Matrix: Water
Analysis Batch: 430212

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 - Quad	20.0	19.0		mg/L		95	85 - 115

Lab Sample ID: 180-153324-1 DU
Matrix: Water
Analysis Batch: 430212

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon - Quad	0.62	J	0.518	J F5	mg/L		17	15

Lab Sample ID: MB 180-431142/5
Matrix: Water
Analysis Batch: 431142

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 - Quad	<0.51	^+	1.0	0.51	mg/L			04/01/23 00:27	1

Lab Sample ID: LCS 180-431142/4
Matrix: Water
Analysis Batch: 431142

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 - Quad	20.0	20.6	^+	mg/L		103	85 - 115

Method: EPA 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 180-429465/21
Matrix: Water
Analysis Batch: 429465

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			03/16/23 10:13	1

Lab Sample ID: MB 180-429465/56
Matrix: Water
Analysis Batch: 429465

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			03/16/23 11:09	1

Lab Sample ID: LCS 180-429465/20
Matrix: Water
Analysis Batch: 429465

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	2.13		mg/L		106	90 - 110

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QC Sample Results

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

Job ID: 180-153324-1

Method: EPA 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 180-429465/52
Matrix: Water
Analysis Batch: 429465

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	2.18		mg/L		109	90 - 110

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

Lab Sample ID: MB 180-429166/1
Matrix: Water
Analysis Batch: 429166

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			03/14/23 15:02	1

Lab Sample ID: LCS 180-429166/2
Matrix: Water
Analysis Batch: 429166

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	665	644		mg/L		97	85 - 115

Lab Sample ID: MB 180-429173/1
Matrix: Water
Analysis Batch: 429173

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			03/14/23 16:38	1

Lab Sample ID: LCS 180-429173/2
Matrix: Water
Analysis Batch: 429173

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	665	660		mg/L		99	85 - 115

Lab Sample ID: MB 180-429181/1
Matrix: Water
Analysis Batch: 429181

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			03/14/23 17:23	1

Lab Sample ID: LCS 180-429181/2
Matrix: Water
Analysis Batch: 429181

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	665	594		mg/L		89	85 - 115

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QC Sample Results

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

Job ID: 180-153324-1

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-429079/77
Matrix: Water
Analysis Batch: 429079

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			03/13/23 20:03	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/13/23 20:03	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/13/23 20:03	1

Lab Sample ID: LCS 180-429079/76
Matrix: Water
Analysis Batch: 429079

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	255	265		mg/L		104	90 - 110

Lab Sample ID: LLCS 180-429079/75
Matrix: Water
Analysis Batch: 429079

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	15.3	15.0		mg/L		98	75 - 125

Lab Sample ID: 180-153324-10 DU
Matrix: Water
Analysis Batch: 429079

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	430		434		mg/L		0.05	20
Bicarbonate Alkalinity as CaCO3	430		434		mg/L		0.05	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

Lab Sample ID: MB 180-429381/29
Matrix: Water
Analysis Batch: 429381

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			03/15/23 18:09	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/15/23 18:09	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/15/23 18:09	1

Lab Sample ID: MB 180-429381/5
Matrix: Water
Analysis Batch: 429381

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			03/15/23 15:51	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/15/23 15:51	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/15/23 15:51	1

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QC Sample Results

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

Job ID: 180-153324-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LCS 180-429381/28
Matrix: Water
Analysis Batch: 429381

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	255	263		mg/L		103	90 - 110

Lab Sample ID: LLCS 180-429381/27
Matrix: Water
Analysis Batch: 429381

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	15.3	14.4		mg/L		94	75 - 125

QC Association Summary

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

Job ID: 180-153324-1

HPLC/IC

Analysis Batch: 428804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-5	APMW-2D	Total/NA	Water	300.0	
180-153324-6	APMW-3	Total/NA	Water	300.0	
180-153324-6	APMW-3	Total/NA	Water	300.0	
180-153324-7	APMW-3D	Total/NA	Water	300.0	
180-153324-8	DUP-02	Total/NA	Water	300.0	
180-153324-8	DUP-02	Total/NA	Water	300.0	
180-153324-9	APMW-4	Total/NA	Water	300.0	
180-153324-9	APMW-4	Total/NA	Water	300.0	
180-153324-10	APMW-4D	Total/NA	Water	300.0	
180-153324-10	APMW-4D	Total/NA	Water	300.0	
MB 180-428804/38	Method Blank	Total/NA	Water	300.0	
MB 180-428804/6	Method Blank	Total/NA	Water	300.0	
LCS 180-428804/39	Lab Control Sample	Total/NA	Water	300.0	
LCS 180-428804/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 430454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-1	APMW-11	Total/NA	Water	300.0	
180-153324-2	DUP-01	Total/NA	Water	300.0	
180-153324-3	APMW-1R	Total/NA	Water	300.0	
180-153324-3	APMW-1R	Total/NA	Water	300.0	
180-153324-4	APMW-2	Total/NA	Water	300.0	
180-153324-4	APMW-2	Total/NA	Water	300.0	
MB 180-430454/48	Method Blank	Total/NA	Water	300.0	
LCS 180-430454/49	Lab Control Sample	Total/NA	Water	300.0	
180-153324-1 MS	APMW-11	Total/NA	Water	300.0	
180-153324-1 MSD	APMW-11	Total/NA	Water	300.0	

Metals

Prep Batch: 429462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-1	APMW-11	Total Recoverable	Water	3005A	
180-153324-2	DUP-01	Total Recoverable	Water	3005A	
180-153324-3	APMW-1R	Total Recoverable	Water	3005A	
180-153324-4	APMW-2	Total Recoverable	Water	3005A	
180-153324-5	APMW-2D	Total Recoverable	Water	3005A	
180-153324-6	APMW-3	Total Recoverable	Water	3005A	
180-153324-7	APMW-3D	Total Recoverable	Water	3005A	
180-153324-8	DUP-02	Total Recoverable	Water	3005A	
180-153324-9	APMW-4	Total Recoverable	Water	3005A	
180-153324-10	APMW-4D	Total Recoverable	Water	3005A	
MB 180-429462/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-429462/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 429851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-5	APMW-2D	Total/NA	Water	7470A	
180-153324-6	APMW-3	Total/NA	Water	7470A	
180-153324-7	APMW-3D	Total/NA	Water	7470A	
180-153324-8	DUP-02	Total/NA	Water	7470A	

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QC Association Summary

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

Job ID: 180-153324-1

Metals (Continued)

Prep Batch: 429851 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-9	APMW-4	Total/NA	Water	7470A	
180-153324-10	APMW-4D	Total/NA	Water	7470A	
MB 180-429851/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-429851/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 429885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-1	APMW-11	Total/NA	Water	7470A	
180-153324-2	DUP-01	Total/NA	Water	7470A	
180-153324-3	APMW-1R	Total/NA	Water	7470A	
180-153324-4	APMW-2	Total/NA	Water	7470A	
MB 180-429885/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-429885/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 429969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-1	APMW-11	Total/NA	Water	EPA 7470A	429885
180-153324-2	DUP-01	Total/NA	Water	EPA 7470A	429885
180-153324-3	APMW-1R	Total/NA	Water	EPA 7470A	429885
180-153324-4	APMW-2	Total/NA	Water	EPA 7470A	429885
180-153324-5	APMW-2D	Total/NA	Water	EPA 7470A	429851
180-153324-6	APMW-3	Total/NA	Water	EPA 7470A	429851
180-153324-7	APMW-3D	Total/NA	Water	EPA 7470A	429851
180-153324-8	DUP-02	Total/NA	Water	EPA 7470A	429851
180-153324-9	APMW-4	Total/NA	Water	EPA 7470A	429851
180-153324-10	APMW-4D	Total/NA	Water	EPA 7470A	429851
MB 180-429851/1-A	Method Blank	Total/NA	Water	EPA 7470A	429851
MB 180-429885/1-A	Method Blank	Total/NA	Water	EPA 7470A	429885
LCS 180-429851/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	429851
LCS 180-429885/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	429885

Analysis Batch: 432609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-1	APMW-11	Total Recoverable	Water	EPA 6020B	429462
180-153324-2	DUP-01	Total Recoverable	Water	EPA 6020B	429462
180-153324-3	APMW-1R	Total Recoverable	Water	EPA 6020B	429462
180-153324-4	APMW-2	Total Recoverable	Water	EPA 6020B	429462
180-153324-5	APMW-2D	Total Recoverable	Water	EPA 6020B	429462
180-153324-6	APMW-3	Total Recoverable	Water	EPA 6020B	429462
180-153324-7	APMW-3D	Total Recoverable	Water	EPA 6020B	429462
180-153324-8	DUP-02	Total Recoverable	Water	EPA 6020B	429462
180-153324-9	APMW-4	Total Recoverable	Water	EPA 6020B	429462
180-153324-10	APMW-4D	Total Recoverable	Water	EPA 6020B	429462
MB 180-429462/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	429462
LCS 180-429462/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	429462

Analysis Batch: 432968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-1	APMW-11	Total Recoverable	Water	EPA 6020B	429462
180-153324-2	DUP-01	Total Recoverable	Water	EPA 6020B	429462
180-153324-3	APMW-1R	Total Recoverable	Water	EPA 6020B	429462

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QC Association Summary

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

Job ID: 180-153324-1

Metals (Continued)

Analysis Batch: 432968 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-4	APMW-2	Total Recoverable	Water	EPA 6020B	429462
180-153324-5	APMW-2D	Total Recoverable	Water	EPA 6020B	429462
180-153324-6	APMW-3	Total Recoverable	Water	EPA 6020B	429462
180-153324-6	APMW-3	Total Recoverable	Water	EPA 6020B	429462
180-153324-7	APMW-3D	Total Recoverable	Water	EPA 6020B	429462
180-153324-8	DUP-02	Total Recoverable	Water	EPA 6020B	429462
180-153324-8	DUP-02	Total Recoverable	Water	EPA 6020B	429462
180-153324-9	APMW-4	Total Recoverable	Water	EPA 6020B	429462
180-153324-10	APMW-4D	Total Recoverable	Water	EPA 6020B	429462
180-153324-10	APMW-4D	Total Recoverable	Water	EPA 6020B	429462
MB 180-429462/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	429462
LCS 180-429462/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	429462

Analysis Batch: 433148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-1	APMW-11	Total Recoverable	Water	EPA 6020B	429462
180-153324-2	DUP-01	Total Recoverable	Water	EPA 6020B	429462
180-153324-3	APMW-1R	Total Recoverable	Water	EPA 6020B	429462
180-153324-4	APMW-2	Total Recoverable	Water	EPA 6020B	429462
180-153324-5	APMW-2D	Total Recoverable	Water	EPA 6020B	429462
180-153324-6	APMW-3	Total Recoverable	Water	EPA 6020B	429462
180-153324-7	APMW-3D	Total Recoverable	Water	EPA 6020B	429462
180-153324-8	DUP-02	Total Recoverable	Water	EPA 6020B	429462
180-153324-9	APMW-4	Total Recoverable	Water	EPA 6020B	429462
180-153324-10	APMW-4D	Total Recoverable	Water	EPA 6020B	429462

General Chemistry

Analysis Batch: 429079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-5	APMW-2D	Total/NA	Water	SM2320 B	
180-153324-6	APMW-3	Total/NA	Water	SM2320 B	
180-153324-7	APMW-3D	Total/NA	Water	SM2320 B	
180-153324-8	DUP-02	Total/NA	Water	SM2320 B	
180-153324-9	APMW-4	Total/NA	Water	SM2320 B	
180-153324-10	APMW-4D	Total/NA	Water	SM2320 B	
MB 180-429079/77	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-429079/76	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-429079/75	Lab Control Sample	Total/NA	Water	SM2320 B	
180-153324-10 DU	APMW-4D	Total/NA	Water	SM2320 B	

Analysis Batch: 429166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-7	APMW-3D	Total/NA	Water	SM 2540C	
180-153324-8	DUP-02	Total/NA	Water	SM 2540C	
MB 180-429166/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-429166/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 429173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-1	APMW-11	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 180-153324-1

General Chemistry (Continued)

Analysis Batch: 429173 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-5	APMW-2D	Total/NA	Water	SM 2540C	
180-153324-6	APMW-3	Total/NA	Water	SM 2540C	
180-153324-9	APMW-4	Total/NA	Water	SM 2540C	
180-153324-10	APMW-4D	Total/NA	Water	SM 2540C	
MB 180-429173/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-429173/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 429181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-2	DUP-01	Total/NA	Water	SM 2540C	
180-153324-3	APMW-1R	Total/NA	Water	SM 2540C	
180-153324-4	APMW-2	Total/NA	Water	SM 2540C	
MB 180-429181/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-429181/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 429381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-1	APMW-11	Total/NA	Water	SM2320 B	
180-153324-2	DUP-01	Total/NA	Water	SM2320 B	
180-153324-3	APMW-1R	Total/NA	Water	SM2320 B	
180-153324-4	APMW-2	Total/NA	Water	SM2320 B	
MB 180-429381/29	Method Blank	Total/NA	Water	SM2320 B	
MB 180-429381/5	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-429381/28	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-429381/27	Lab Control Sample	Total/NA	Water	SM2320 B	

Analysis Batch: 429465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-1	APMW-11	Total/NA	Water	EPA 353.2	
180-153324-2	DUP-01	Total/NA	Water	EPA 353.2	
180-153324-3	APMW-1R	Total/NA	Water	EPA 353.2	
180-153324-4	APMW-2	Total/NA	Water	EPA 353.2	
180-153324-5	APMW-2D	Total/NA	Water	EPA 353.2	
180-153324-6	APMW-3	Total/NA	Water	EPA 353.2	
180-153324-7	APMW-3D	Total/NA	Water	EPA 353.2	
180-153324-8	DUP-02	Total/NA	Water	EPA 353.2	
180-153324-9	APMW-4	Total/NA	Water	EPA 353.2	
180-153324-10	APMW-4D	Total/NA	Water	EPA 353.2	
MB 180-429465/21	Method Blank	Total/NA	Water	EPA 353.2	
MB 180-429465/56	Method Blank	Total/NA	Water	EPA 353.2	
LCS 180-429465/20	Lab Control Sample	Total/NA	Water	EPA 353.2	
LCS 180-429465/52	Lab Control Sample	Total/NA	Water	EPA 353.2	

Analysis Batch: 430212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-1	APMW-11	Total/NA	Water	5310 C-2014	
180-153324-5	APMW-2D	Total/NA	Water	5310 C-2014	
180-153324-6	APMW-3	Total/NA	Water	5310 C-2014	
180-153324-7	APMW-3D	Total/NA	Water	5310 C-2014	
180-153324-8	DUP-02	Total/NA	Water	5310 C-2014	
180-153324-9	APMW-4	Total/NA	Water	5310 C-2014	

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QC Association Summary

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

Job ID: 180-153324-1

General Chemistry (Continued)

Analysis Batch: 430212 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-10	APMW-4D	Total/NA	Water	5310 C-2014	
MB 180-430212/35	Method Blank	Total/NA	Water	5310 C-2014	
MB 180-430212/5	Method Blank	Total/NA	Water	5310 C-2014	
LCS 180-430212/34	Lab Control Sample	Total/NA	Water	5310 C-2014	
LCS 180-430212/4	Lab Control Sample	Total/NA	Water	5310 C-2014	
180-153324-1 DU	APMW-11	Total/NA	Water	5310 C-2014	

Analysis Batch: 431142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-2	DUP-01	Total/NA	Water	5310 C-2014	
180-153324-3	APMW-1R	Total/NA	Water	5310 C-2014	
180-153324-4	APMW-2	Total/NA	Water	5310 C-2014	
MB 180-431142/5	Method Blank	Total/NA	Water	5310 C-2014	
LCS 180-431142/4	Lab Control Sample	Total/NA	Water	5310 C-2014	

Field Service / Mobile Lab

Analysis Batch: 431326

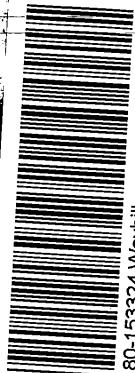
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-1	APMW-11	Total/NA	Water	Field Sampling	
180-153324-2	DUP-01	Total/NA	Water	Field Sampling	
180-153324-3	APMW-1R	Total/NA	Water	Field Sampling	
180-153324-4	APMW-2	Total/NA	Water	Field Sampling	
180-153324-5	APMW-2D	Total/NA	Water	Field Sampling	
180-153324-6	APMW-3	Total/NA	Water	Field Sampling	
180-153324-7	APMW-3D	Total/NA	Water	Field Sampling	
180-153324-8	DUP-02	Total/NA	Water	Field Sampling	
180-153324-9	APMW-4	Total/NA	Water	Field Sampling	
180-153324-10	APMW-4D	Total/NA	Water	Field Sampling	

Chain of Custody Record

Client Information Client Contact: <u>Tommaso / Voreis</u> SCS Contacts: <u>850-336-0192</u> Company:		Lab PM: Brown, Shall E-Mail: shall.brown@eurofinset.com		Carrier Tracking No(s)		COC No Page: Job #							
Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email: SCS Contacts: Project Name: Plant Watson Site:		Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 18020186 SSOV#:		Analysis Requested 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate Bromide 6020B/7470 Custom 23 (AppII/AppI+9) + Mercury 353.2 Nitrate/Nitrite NOX (pres) 5310C Total Organic Carbon 2320B Alkalinity, Total, Carb, 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 - Amphot 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)							
Sample Identification Sample ID: <u>APMW-11</u> <u>DUP-01</u> <u>APMW-1R</u> <u>APMW-2</u> <u>APMW-2D</u> <u>APMW-3</u> <u>APMW-3D</u> <u>APMW-3D</u> <u>APMW-4</u> <u>APMW-4D</u>		Sample Date 3-7-23 3-7-23 3-8-23 3-8-23 3-8-23 3-8-23 3-8-23 3-8-23 3-8-23		Sample Time 1117 1017 0826 1025 1102 1410 1248 1310 1507 1607		Sample Type (C=Comp, G=grab) G G G G G G G G G		Matrix (W=water, S=solid, O=oil, BT=Tissue, Air) W W W W W W W W W		Field Filtered Sample (Yes or No) Yes Yes Yes Yes Yes Yes Yes Yes Yes		Preservation Code: W W W W W W W W W	
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		Deliverable Requested: I, II, III, IV, Other (specify)		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:		Method of Shipment:		Time:							
Relinquished by: <u>Mike Hagan</u>		Date/Time: <u>3-8-23 1645</u>		Received by: <u>Tommaso</u>		Date/Time: <u>3-7-23 0930</u>							
Relinquished by:		Date/Time:		Received by:		Date/Time:							
Relinquished by:		Date/Time:		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:		Company: <u>Eurofins</u> Company:							



Do Not Lift Using This Tag



ORIGIN ID: BIXA, (850) 336-0192
EUROFINS
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

SHIP DATE: 08MAR23
ACTWT: 63.75 LB
CAD: 6993800/SSFE2401
DIMS: 24x15x13 IN
BILL THIRD PARTY

PITTSBURGH, PA 15238
UNITED STATES US

TO EUROFINS
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192

REF:

DEPT:



Uncorrected temp
Thermometer ID

31.8
18 C

CF Oil Initials

M

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

FedEx
Express



AM101102201627

2 of 3

MPS# 0263 3955 1821 6502

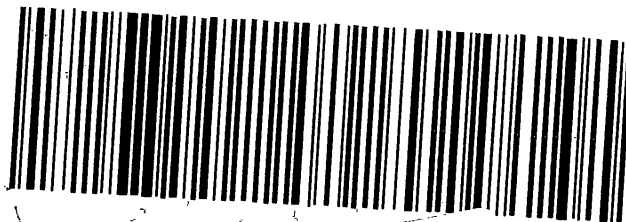
Mstr# 3955 1821 6498

0201

THU - 09 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



RT 198
FZ 197
1 10:30 A
6502
03.09

Part # 156293468-PRR023-EXP 12/23

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RT 198
FZ 197
↑ 10:30
A
6498
03.09



15238
PA-US
PIT

XN AGCA

THU - 09 MAR 10:30A
PRIORITY OVERNIGHT

1 of 3
TRK# 3955 1821 6498
0201
MASTER



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

CF O.I. Initials

Uncorrected temp

Thermometer ID

2.2 °C

DEPT: INV: REF: (850) 336-0192

PITTSBURGH PA 15238

10 EUROFINS
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH PA 15238

ORIGIN ID:BIXA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 08MAR23
ACTWGT: 63.75 LB
CAD: 6993800/SSF22401
DIMS: 24x15x13 IN
BILL THIRD PARTY

Do Not Lift Using This Tag

ORIGIN ID: BIXA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 13MAR23
ACTWGT: 58.00 LB
CAD: 6993799/SSFE2401
DIMS: 23x14x14 IN
BILL THIRD PARTY

Part # 156296-495-991039-EXP 12/23

TO:

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192

REF:

INU:

DEPT:



Uncorrected temp 1.2 °C
Thermometer ID 18

CF 0 Initials mw

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

FedEx
Express



AP1011106201227

4 of 4

MPS# 3957 0219 4018
0263

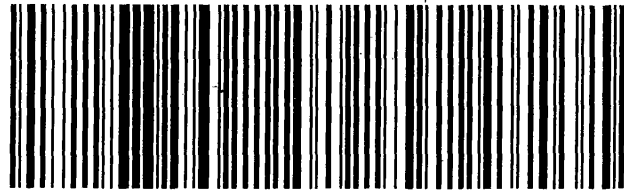
Mstr# 3957 0219 3982

0201

TUE - 14 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



*D Watson
BPH, NE*

3-14-23

10:25

*AGCA
NOCC*



180-153324 Waybill

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-153324-1

Login Number: 153324

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.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: 180-153324-1

Login Number: 153324

List Number: 3

Creator: Watson, Debbie

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	
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.	False	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	N/A	
Samples are received within Holding Time.	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	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	





ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/17/2023 1:22:58 PM

JOB DESCRIPTION

Plant Watson Ash Pond

JOB NUMBER

180-153324-2

Eurofins Pittsburgh

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Pittsburgh and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Pittsburgh Project Manager or designee who has signed this report.

PA Lab ID: 02-00416

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

Authorization



Generated
4/17/2023 1:22:58 PM

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



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions/Glossary	6
Certification Summary	7
Sample Summary	8
Method Summary	9
Lab Chronicle	10
Client Sample Results	14
QC Sample Results	24
QC Association Summary	28
Chain of Custody	29
Receipt Checklists	32

Case Narrative

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

Job ID: 180-153324-2

Job ID: 180-153324-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-153324-2

Receipt

The samples were received on 3/9/2023 9:30 AM and 3/14/2023 10:25 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 1.2°C, 2.3°C and 3.9°C

Receipt Exceptions

The following samples were listed on the Chain of Custody (COC); however, no samples were received: APMW-11 (180-153324-1), DUP-01 (180-153324-2), APMW-1R (180-153324-3) and APMW-2 (180-153324-4). The samples were received on 3/14/23

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 Prep Batch 160-604353:Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-2D (180-153324-5). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9315_Ra226: Radium-226 Prep Batch 160-604275:The following samples were prepared at a reduced aliquot due to Matrix: APMW-3 (180-153324-6), APMW-3D (180-153324-7), DUP-02 (180-153324-8), APMW-4 (180-153324-9) and APMW-4D (180-153324-10). 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 160-604353: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-2D (180-153324-5), (LCS 160-604353/2-A), (LCSD 160-604353/3-A) and (MB 160-604353/1-A)

Method 9315_Ra226: Radium-226 batch 604275Any 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-3 (180-153324-6), APMW-3D (180-153324-7), DUP-02 (180-153324-8), APMW-4 (180-153324-9), APMW-4D (180-153324-10), (LCS 160-604275/2-A), (LCSD 160-604275/3-A) and (MB 160-604275/1-A)

Method 9315_Ra226: Radium-226 prep batch 160-604452: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 (180-153324-1), DUP-01 (180-153324-2), APMW-1R (180-153324-3), APMW-2 (180-153324-4), (LCS 160-604452/2-A), (MB 160-604452/1-A), (380-38726-A-3-A) and (380-38726-C-3-A DU)

Method 9320_Ra228: Radium-228 Prep Batch 160-604358:Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-2D (180-153324-5). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9320_Ra228: Radium-228 Prep Batch 160-604348:The following samples were prepared at a reduced aliquot due to Matrix: APMW-3 (180-153324-6), DUP-02 (180-153324-8), APMW-4 (180-153324-9) and APMW-4D (180-153324-10). 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 160-604348:Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-3D (180-153324-7). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9320_Ra228: Radium-228 batch 604348Any 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

Case Narrative

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

Job ID: 180-153324-2

Job ID: 180-153324-2 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

results are reported with the count date/time applied as the Activity Reference Date. APMW-3 (180-153324-6), APMW-3D (180-153324-7), DUP-02 (180-153324-8), APMW-4 (180-153324-9), APMW-4D (180-153324-10), (LCS 160-604348/2-A), (LCSD 160-604348/3-A) and (MB 160-604348/1-A)

Method 9320_Ra228: Radium-228 batch 604358 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-2D (180-153324-5), (LCS 160-604358/2-A), (LCSD 160-604358/3-A) and (MB 160-604358/1-A)

Method 9320_Ra228: Radium-228 batch 604457 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 (180-153324-1), DUP-01 (180-153324-2), APMW-1R (180-153324-3), APMW-2 (180-153324-4), (LCS 160-604457/2-A), (MB 160-604457/1-A), (380-38726-A-3-B) and (380-38726-C-3-B 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: 180-153324-2

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: 180-153324-2

Laboratory: Eurofins St. Louis

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

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

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

Sample Summary

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

Job ID: 180-153324-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-153324-1	APMW-11	Water	03/07/23 11:17	03/14/23 10:25
180-153324-2	DUP-01	Water	03/07/23 10:17	03/14/23 10:25
180-153324-3	APMW-1R	Water	03/08/23 08:26	03/14/23 10:25
180-153324-4	APMW-2	Water	03/08/23 10:25	03/14/23 10:25
180-153324-5	APMW-2D	Water	03/08/23 11:02	03/09/23 09:30
180-153324-6	APMW-3	Water	03/08/23 14:10	03/09/23 09:30
180-153324-7	APMW-3D	Water	03/08/23 12:48	03/09/23 09:30
180-153324-8	DUP-02	Water	03/08/23 13:10	03/09/23 09:30
180-153324-9	APMW-4	Water	03/08/23 15:07	03/09/23 09:30
180-153324-10	APMW-4D	Water	03/08/23 16:07	03/09/23 09:30

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Method Summary

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

Job ID: 180-153324-2

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

Protocol References:

None = None

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

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

Laboratory References:

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



Lab Chronicle

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

Job ID: 180-153324-2

Client Sample ID: APMW-11

Lab Sample ID: 180-153324-1

Date Collected: 03/07/23 11:17

Matrix: Water

Date Received: 03/14/23 10:25

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			1003.40 mL	1.0 g	604452	03/21/23 10:37	BMP	EET SL
Total/NA	Analysis	9315		1			607020	04/12/23 14:49	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1003.40 mL	1.0 g	604457	03/21/23 11:01	BMP	EET SL
Total/NA	Analysis	9320		1			606563	04/07/23 13:04	EMH	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			607838	04/17/23 14:06	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01

Lab Sample ID: 180-153324-2

Date Collected: 03/07/23 10:17

Matrix: Water

Date Received: 03/14/23 10:25

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			1010.44 mL	1.0 g	604452	03/21/23 10:37	BMP	EET SL
Total/NA	Analysis	9315		1			607020	04/12/23 14:49	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1010.44 mL	1.0 g	604457	03/21/23 11:01	BMP	EET SL
Total/NA	Analysis	9320		1			606563	04/07/23 13:04	EMH	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			607838	04/17/23 14:06	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-1R

Lab Sample ID: 180-153324-3

Date Collected: 03/08/23 08:26

Matrix: Water

Date Received: 03/14/23 10:25

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			755.43 mL	1.0 g	604452	03/21/23 10:37	BMP	EET SL
Total/NA	Analysis	9315		1			607020	04/12/23 14:49	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			755.43 mL	1.0 g	604457	03/21/23 11:01	BMP	EET SL
Total/NA	Analysis	9320		1			606563	04/07/23 13:04	EMH	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			607838	04/17/23 14:06	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-2

Lab Sample ID: 180-153324-4

Date Collected: 03/08/23 10:25

Matrix: Water

Date Received: 03/14/23 10:25

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			750.49 mL	1.0 g	604452	03/21/23 10:37	BMP	EET SL
Total/NA	Analysis	9315		1			607020	04/12/23 14:49	FLC	EET SL
Instrument ID: GFPCBLUE										

Lab Chronicle

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

Job ID: 180-153324-2

Client Sample ID: APMW-2

Lab Sample ID: 180-153324-4

Date Collected: 03/08/23 10:25

Matrix: Water

Date Received: 03/14/23 10:25

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			750.49 mL	1.0 g	604457	03/21/23 11:01	BMP	EET SL
Total/NA	Analysis	9320		1			606563	04/07/23 13:05	EMH	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			607838	04/17/23 14:06	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-2D

Lab Sample ID: 180-153324-5

Date Collected: 03/08/23 11:02

Matrix: Water

Date Received: 03/09/23 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			996.99 mL	1.0 g	604353	03/20/23 11:13	DJP	EET SL
Total/NA	Analysis	9315		1			606893	04/11/23 08:51	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			996.99 mL	1.0 g	604358	03/20/23 11:35	DJP	EET SL
Total/NA	Analysis	9320		1			606157	04/05/23 11:38	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			607004	04/11/23 23:27	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-3

Lab Sample ID: 180-153324-6

Date Collected: 03/08/23 14:10

Matrix: Water

Date Received: 03/09/23 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			752.09 mL	1.0 g	604275	03/20/23 09:53	DJP	EET SL
Total/NA	Analysis	9315		1			606896	04/11/23 20:21	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			752.09 mL	1.0 g	604348	03/20/23 10:50	DJP	EET SL
Total/NA	Analysis	9320		1			606158	04/05/23 11:29	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			607198	04/12/23 17:06	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-3D

Lab Sample ID: 180-153324-7

Date Collected: 03/08/23 12:48

Matrix: Water

Date Received: 03/09/23 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			998.14 mL	1.0 g	604275	03/20/23 09:53	DJP	EET SL
Total/NA	Analysis	9315		1			606895	04/11/23 20:26	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			998.14 mL	1.0 g	604348	03/20/23 10:50	DJP	EET SL
Total/NA	Analysis	9320		1			606159	04/05/23 11:32	FLC	EET SL
Instrument ID: GFPCBLUE										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-153324-2

Client Sample ID: APMW-3D

Lab Sample ID: 180-153324-7

Date Collected: 03/08/23 12:48

Matrix: Water

Date Received: 03/09/23 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	Ra226_Ra228		1			607198	04/12/23 17:06	EMH	EET SL

Client Sample ID: DUP-02

Lab Sample ID: 180-153324-8

Date Collected: 03/08/23 13:10

Matrix: Water

Date Received: 03/09/23 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			759.30 mL	1.0 g	604275	03/20/23 09:53	DJP	EET SL
Total/NA	Analysis	9315		1			606895	04/11/23 20:27	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			759.30 mL	1.0 g	604348	03/20/23 10:50	DJP	EET SL
Total/NA	Analysis	9320		1			606159	04/05/23 11:33	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			607198	04/12/23 17:06	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-4

Lab Sample ID: 180-153324-9

Date Collected: 03/08/23 15:07

Matrix: Water

Date Received: 03/09/23 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	604275	03/20/23 09:53	DJP	EET SL
Total/NA	Analysis	9315		1			606895	04/11/23 20:27	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.94 mL	1.0 g	604348	03/20/23 10:50	DJP	EET SL
Total/NA	Analysis	9320		1			606159	04/05/23 11:33	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			607198	04/12/23 17:06	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-4D

Lab Sample ID: 180-153324-10

Date Collected: 03/08/23 16:07

Matrix: Water

Date Received: 03/09/23 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			746.58 mL	1.0 g	604275	03/20/23 09:53	DJP	EET SL
Total/NA	Analysis	9315		1			606895	04/11/23 20:27	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			746.58 mL	1.0 g	604348	03/20/23 10:50	DJP	EET SL
Total/NA	Analysis	9320		1			606159	04/05/23 11:33	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			607198	04/12/23 17:06	EMH	EET SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-153324-2

Analyst References:

Lab: EET SL

Batch Type: Prep

BMP = Bailey Pinette

DJP = Dalton Pieper

Batch Type: Analysis

EMH = Elizabeth Hoerchler

FLC = Fernando Cruz

MLK = Micha Korrinhizer

SCB = Sarah Bernsen

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Client Sample Results

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

Job ID: 180-153324-2

Client Sample ID: APMW-11

Lab Sample ID: 180-153324-1

Date Collected: 03/07/23 11:17

Matrix: Water

Date Received: 03/14/23 10:25

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.158		0.0963	0.0973	1.00	0.128	pCi/L	03/21/23 10:37	04/12/23 14:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		30 - 110					03/21/23 10:37	04/12/23 14:49	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.158	U	0.249	0.250	1.00	0.426	pCi/L	03/21/23 11:01	04/07/23 13:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		30 - 110					03/21/23 11:01	04/07/23 13:04	1
Y Carrier	81.9		30 - 110					03/21/23 11:01	04/07/23 13:04	1

Method: TAL-STL 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	0.316	U	0.267	0.268	5.00	0.426	pCi/L		04/17/23 14:06	1

Client Sample Results

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

Job ID: 180-153324-2

Client Sample ID: DUP-01

Lab Sample ID: 180-153324-2

Date Collected: 03/07/23 10:17

Matrix: Water

Date Received: 03/14/23 10:25

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.123	U	0.0960	0.0966	1.00	0.142	pCi/L	03/21/23 10:37	04/12/23 14:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.7		30 - 110					03/21/23 10:37	04/12/23 14:49	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.201	U	0.278	0.279	1.00	0.467	pCi/L	03/21/23 11:01	04/07/23 13:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.7		30 - 110					03/21/23 11:01	04/07/23 13:04	1
Y Carrier	86.4		30 - 110					03/21/23 11:01	04/07/23 13:04	1

Method: TAL-STL 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	0.324	U	0.294	0.295	5.00	0.467	pCi/L		04/17/23 14:06	1

Client Sample Results

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

Job ID: 180-153324-2

Client Sample ID: APMW-1R

Lab Sample ID: 180-153324-3

Date Collected: 03/08/23 08:26

Matrix: Water

Date Received: 03/14/23 10:25

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	6.31		0.544	0.787	1.00	0.151	pCi/L	03/21/23 10:37	04/12/23 14:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.4		30 - 110					03/21/23 10:37	04/12/23 14:49	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	7.24		0.933	1.15	1.00	0.667	pCi/L	03/21/23 11:01	04/07/23 13:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.4		30 - 110					03/21/23 11:01	04/07/23 13:04	1
Y Carrier	88.6		30 - 110					03/21/23 11:01	04/07/23 13:04	1

Method: TAL-STL 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	13.5		1.08	1.39	5.00	0.667	pCi/L		04/17/23 14:06	1

Client Sample Results

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

Job ID: 180-153324-2

Client Sample ID: APMW-2

Lab Sample ID: 180-153324-4

Date Collected: 03/08/23 10:25

Matrix: Water

Date Received: 03/14/23 10:25

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	12.7		0.765	1.38	1.00	0.154	pCi/L	03/21/23 10:37	04/12/23 14:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		30 - 110					03/21/23 10:37	04/12/23 14:49	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	7.73		0.971	1.20	1.00	0.649	pCi/L	03/21/23 11:01	04/07/23 13:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		30 - 110					03/21/23 11:01	04/07/23 13:05	1
Y Carrier	81.1		30 - 110					03/21/23 11:01	04/07/23 13:05	1

Method: TAL-STL 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	20.4		1.24	1.83	5.00	0.649	pCi/L		04/17/23 14:06	1

Client Sample Results

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

Job ID: 180-153324-2

Client Sample ID: APMW-2D

Lab Sample ID: 180-153324-5

Date Collected: 03/08/23 11:02

Matrix: Water

Date Received: 03/09/23 09:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0103	U	0.0621	0.0621	1.00	0.123	pCi/L	03/20/23 11:13	04/11/23 08:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		30 - 110					03/20/23 11:13	04/11/23 08:51	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0615	U	0.358	0.358	1.00	0.655	pCi/L	03/20/23 11:35	04/05/23 11:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		30 - 110					03/20/23 11:35	04/05/23 11:38	1
Y Carrier	70.3		30 - 110					03/20/23 11:35	04/05/23 11:38	1

Method: TAL-STL 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	0.0718	U	0.363	0.363	5.00	0.655	pCi/L		04/11/23 23:27	1

Client Sample Results

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

Job ID: 180-153324-2

Client Sample ID: APMW-3

Lab Sample ID: 180-153324-6

Date Collected: 03/08/23 14:10

Matrix: Water

Date Received: 03/09/23 09:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.494		0.168	0.173	1.00	0.171	pCi/L	03/20/23 09:53	04/11/23 20:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		30 - 110					03/20/23 09:53	04/11/23 20:21	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.28		0.796	0.933	1.00	0.587	pCi/L	03/20/23 10:50	04/05/23 11:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		30 - 110					03/20/23 10:50	04/05/23 11:29	1
Y Carrier	91.6		30 - 110					03/20/23 10:50	04/05/23 11:29	1

Method: TAL-STL 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	5.77		0.814	0.949	5.00	0.587	pCi/L		04/12/23 17:06	1

Client Sample Results

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

Job ID: 180-153324-2

Client Sample ID: APMW-3D

Lab Sample ID: 180-153324-7

Date Collected: 03/08/23 12:48

Matrix: Water

Date Received: 03/09/23 09:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.239		0.104	0.106	1.00	0.113	pCi/L	03/20/23 09:53	04/11/23 20:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					03/20/23 09:53	04/11/23 20:26	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.397	U	0.315	0.317	1.00	0.487	pCi/L	03/20/23 10:50	04/05/23 11:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					03/20/23 10:50	04/05/23 11:32	1
Y Carrier	87.9		30 - 110					03/20/23 10:50	04/05/23 11:32	1

Method: TAL-STL 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	0.636		0.332	0.334	5.00	0.487	pCi/L		04/12/23 17:06	1

Client Sample Results

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

Job ID: 180-153324-2

Client Sample ID: DUP-02

Lab Sample ID: 180-153324-8

Date Collected: 03/08/23 13:10

Matrix: Water

Date Received: 03/09/23 09:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.295		0.131	0.133	1.00	0.139	pCi/L	03/20/23 09:53	04/11/23 20:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		30 - 110					03/20/23 09:53	04/11/23 20:27	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.36		0.836	0.971	1.00	0.596	pCi/L	03/20/23 10:50	04/05/23 11:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		30 - 110					03/20/23 10:50	04/05/23 11:33	1
Y Carrier	85.2		30 - 110					03/20/23 10:50	04/05/23 11:33	1

Method: TAL-STL 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	5.66		0.846	0.980	5.00	0.596	pCi/L		04/12/23 17:06	1

Client Sample Results

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

Job ID: 180-153324-2

Client Sample ID: APMW-4

Lab Sample ID: 180-153324-9

Date Collected: 03/08/23 15:07

Matrix: Water

Date Received: 03/09/23 09:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.476		0.169	0.175	1.00	0.164	pCi/L	03/20/23 09:53	04/11/23 20:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		30 - 110					03/20/23 09:53	04/11/23 20:27	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.31		0.604	0.616	1.00	0.835	pCi/L	03/20/23 10:50	04/05/23 11:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		30 - 110					03/20/23 10:50	04/05/23 11:33	1
Y Carrier	83.7		30 - 110					03/20/23 10:50	04/05/23 11:33	1

Method: TAL-STL 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	1.78		0.627	0.640	5.00	0.835	pCi/L		04/12/23 17:06	1

Client Sample Results

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

Job ID: 180-153324-2

Client Sample ID: APMW-4D

Lab Sample ID: 180-153324-10

Date Collected: 03/08/23 16:07

Matrix: Water

Date Received: 03/09/23 09:30

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.530		0.188	0.194	1.00	0.185	pCi/L	03/20/23 09:53	04/11/23 20:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		30 - 110					03/20/23 09:53	04/11/23 20:27	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	8.87		1.12	1.39	1.00	0.811	pCi/L	03/20/23 10:50	04/05/23 11:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.5		30 - 110					03/20/23 10:50	04/05/23 11:33	1
Y Carrier	86.0		30 - 110					03/20/23 10:50	04/05/23 11:33	1

Method: TAL-STL 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	9.40		1.14	1.40	5.00	0.811	pCi/L		04/12/23 17:06	1

QC Sample Results

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

Job ID: 180-153324-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-604275/1-A
Matrix: Water
Analysis Batch: 606896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604275

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03921	U	0.0640	0.0641	1.00	0.112	pCi/L	03/20/23 09:53	04/11/23 14:54	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	94.1		30 - 110		03/20/23 09:53	04/11/23 14:54	1			

Lab Sample ID: LCS 160-604275/2-A
Matrix: Water
Analysis Batch: 606896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604275

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	12.18		1.27	1.00	0.128	pCi/L	107	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	92.0		30 - 110						

Lab Sample ID: LCSD 160-604275/3-A
Matrix: Water
Analysis Batch: 606896

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 604275

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	Limit
				Uncert. (2σ+/-)							
Radium-226	11.3	11.83		1.22	1.00	0.123	pCi/L	104	75 - 125	0.14	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	92.3		30 - 110								

Lab Sample ID: MB 160-604353/1-A
Matrix: Water
Analysis Batch: 606895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604353

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.03495	U	0.0804	0.0804	1.00	0.172	pCi/L	03/20/23 11:13	04/11/23 06:30	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	90.5		30 - 110		03/20/23 11:13	04/11/23 06:30	1			

Lab Sample ID: LCS 160-604353/2-A
Matrix: Water
Analysis Batch: 606895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604353

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.56		1.21	1.00	0.118	pCi/L	102	75 - 125

Eurofins Pittsburgh

QC Sample Results

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

Job ID: 180-153324-2

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

Lab Sample ID: LCS 160-604353/2-A
Matrix: Water
Analysis Batch: 606896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604353

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	90.5		30 - 110

Lab Sample ID: LCSD 160-604353/3-A
Matrix: Water
Analysis Batch: 606896

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 604353

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec		RER	RER
									Limits	RER	Limit	
Radium-226	11.3	11.64		1.22	1.00	0.130	pCi/L	103	75 - 125	0.03		1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	93.6		30 - 110

Lab Sample ID: MB 160-604452/1-A
Matrix: Water
Analysis Batch: 607020

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604452

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	97.7		30 - 110	03/21/23 10:37	04/12/23 14:49	1

Lab Sample ID: LCS 160-604452/2-A
Matrix: Water
Analysis Batch: 607020

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604452

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec	
									Limits	
Radium-226	11.3	9.317		1.02	1.00	0.145	pCi/L	82	75 - 125	

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	98.7		30 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-604348/1-A
Matrix: Water
Analysis Batch: 606158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604348

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	94.1		30 - 110	03/20/23 10:50	04/05/23 11:29	1

Eurofins Pittsburgh

QC Sample Results

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

Job ID: 180-153324-2

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

Lab Sample ID: MB 160-604348/1-A
Matrix: Water
Analysis Batch: 606158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604348

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Y Carrier	80.7		30 - 110	03/20/23 10:50	04/05/23 11:29	1

Lab Sample ID: LCS 160-604348/2-A
Matrix: Water
Analysis Batch: 606158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604348

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	92.0		30 - 110
Y Carrier	86.7		30 - 110

Lab Sample ID: LCSD 160-604348/3-A
Matrix: Water
Analysis Batch: 606158

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 604348

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	Limit

Carrier	LCSD LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	92.3		30 - 110
Y Carrier	88.2		30 - 110

Lab Sample ID: MB 160-604358/1-A
Matrix: Water
Analysis Batch: 606261

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604358

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.09792	U	0.271	0.272	1.00	0.484	pCi/L	03/20/23 11:35	04/05/23 11:42	1

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	90.5		30 - 110	03/20/23 11:35	04/05/23 11:42	1
Y Carrier	86.4		30 - 110	03/20/23 11:35	04/05/23 11:42	1

Lab Sample ID: LCS 160-604358/2-A
Matrix: Water
Analysis Batch: 606261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604358

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

QC Sample Results

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

Job ID: 180-153324-2

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

Lab Sample ID: LCS 160-604358/2-A
Matrix: Water
Analysis Batch: 606261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604358

Carrier	LCS		Limits
	%Yield	Qualifier	
Ba Carrier	90.5		30 - 110
Y Carrier	90.8		30 - 110

Lab Sample ID: LCSD 160-604358/3-A
Matrix: Water
Analysis Batch: 606261

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 604358

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		RER	RER Limit
									75 - 125	0.03	1	
Radium-228	8.06	8.860		1.20	1.00	0.421	pCi/L	110	75 - 125	0.03		1

Carrier	LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	93.6		30 - 110
Y Carrier	85.2		30 - 110

Lab Sample ID: MB 160-604457/1-A
Matrix: Water
Analysis Batch: 606563

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604457

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								03/21/23 11:01	04/07/23 13:04	04/07/23 13:04	13:04	
Radium-228	0.3286	U	0.306	0.308	1.00	0.488	pCi/L	03/21/23 11:01	04/07/23 13:04	04/07/23 13:04	13:04	1

Carrier	MB		Limits	Prepared		Analyzed		Dil Fac
	%Yield	Qualifier		03/21/23 11:01	04/07/23 13:04	04/07/23 13:04	13:04	
Ba Carrier	97.7		30 - 110	03/21/23 11:01	04/07/23 13:04	04/07/23 13:04	13:04	1
Y Carrier	85.6		30 - 110	03/21/23 11:01	04/07/23 13:04	04/07/23 13:04	13:04	1

Lab Sample ID: LCS 160-604457/2-A
Matrix: Water
Analysis Batch: 606563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604457

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									75 - 125	
Radium-228	8.05	8.587		1.17	1.00	0.452	pCi/L	107	75 - 125	

Carrier	LCS		Limits
	%Yield	Qualifier	
Ba Carrier	98.7		30 - 110
Y Carrier	83.7		30 - 110

QC Association Summary

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

Job ID: 180-153324-2

Rad

Prep Batch: 604275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-6	APMW-3	Total/NA	Water	PrecSep-21	
180-153324-7	APMW-3D	Total/NA	Water	PrecSep-21	
180-153324-8	DUP-02	Total/NA	Water	PrecSep-21	
180-153324-9	APMW-4	Total/NA	Water	PrecSep-21	
180-153324-10	APMW-4D	Total/NA	Water	PrecSep-21	
MB 160-604275/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-604275/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-604275/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 604348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-6	APMW-3	Total/NA	Water	PrecSep_0	
180-153324-7	APMW-3D	Total/NA	Water	PrecSep_0	
180-153324-8	DUP-02	Total/NA	Water	PrecSep_0	
180-153324-9	APMW-4	Total/NA	Water	PrecSep_0	
180-153324-10	APMW-4D	Total/NA	Water	PrecSep_0	
MB 160-604348/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-604348/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-604348/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 604353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-5	APMW-2D	Total/NA	Water	PrecSep-21	
MB 160-604353/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-604353/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-604353/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 604358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-5	APMW-2D	Total/NA	Water	PrecSep_0	
MB 160-604358/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-604358/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-604358/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 604452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-1	APMW-11	Total/NA	Water	PrecSep-21	
180-153324-2	DUP-01	Total/NA	Water	PrecSep-21	
180-153324-3	APMW-1R	Total/NA	Water	PrecSep-21	
180-153324-4	APMW-2	Total/NA	Water	PrecSep-21	
MB 160-604452/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-604452/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 604457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153324-1	APMW-11	Total/NA	Water	PrecSep_0	
180-153324-2	DUP-01	Total/NA	Water	PrecSep_0	
180-153324-3	APMW-1R	Total/NA	Water	PrecSep_0	
180-153324-4	APMW-2	Total/NA	Water	PrecSep_0	
MB 160-604457/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-604457/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

ORIGIN ID: BIXA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 13MAR23
ACTWGT: 58.00 LB
CAD: 6993799/SSFE2401
DIMS: 23x14x14 IN
BILL THIRD PARTY

Part # 156296-495-9910329-EXP 12/23

TO:

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192

REF:

INU:

DEPT:



Uncorrected temp 1.2 °C
Thermometer ID 18

CF 0 Initials mw

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

FedEx
Express



AP1011106201227

4 of 4

MPS# 3957 0219 4018
0263

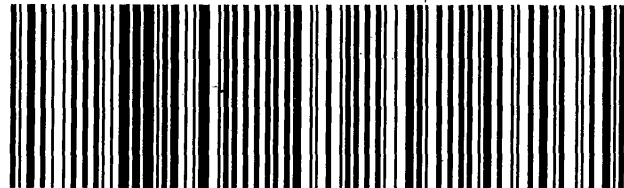
Mstr# 3957 0219 3982

0201

TUE - 14 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



*D. Watson
BPH, NE*

3-14-23

10:25

*AGCA
NOCC*



180-153324 Waybill

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM:	Carrier Tracking No(s):							
Shipping/Receiving		Brown, Shali	180-482170-1							
Company		E-Mail:	Page:							
TestAmerica Laboratories, Inc.		Shali.Brown@et.eurofins.com	180-153324-2							
Address:		State of Origin:	Job #:							
13715 Rider Trail North,		Georgia	180-153324-2							
City:		Preservation Codes:								
Earth City		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 - Trizma Z - other (specify)								
State, Zip:		Other:								
MO, 63045										
Phone:		Analysis Requested								
314-298-8566(Tel) 314-298-8757(Fax)										
Email:										
Project Name:										
Plant Watson Ash Pond										
Site:										
Due Date Requested:		Total Number of Containers								
4/11/2023										
TAT Requested (days):										
PO #:										
WO #:										
Project #:										
18020186										
SSOW#:										
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)	Perform MS/MSD (Yes or No)	9320_Ra228/PreSep_0 Radium 228	915_Ra228/PreSep_21 Radium 226	Ra228Ra228 GFPC/Combined Radium 226 and	Special Instructions/Note:
APMW-2D (180-153324-5)	3/8/23	11:02 Eastern		Water	X	X	X	X		
APMW-3 (180-153324-6)	3/8/23	14:10 Eastern		Water	X	X	X	X		
APMW-3D (180-153324-7)	3/8/23	12:48 Eastern		Water	X	X	X	X		
DUP-02 (180-153324-8)	3/8/23	13:10 Eastern		Water	X	X	X	X		
APMW-4 (180-153324-9)	3/8/23	15:07 Eastern		Water	X	X	X	X		
APMW-4D (180-153324-10)	3/8/23	16:07 Eastern		Water	X	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/ests/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: _____ Date: 3-13-23 1800
 Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: _____

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: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:		Carrier Tracking No(s):		COC No:					
Client Contact: Shipping/Receiving		Lab PM Brown, Shali		180-482613-1		Page:					
Company: TesAmerica Laboratories, Inc.		E-Mail: Shali.Brown@et.eurofins.com		State of Origin: Georgia		Page 1 of 1					
Address: 13715 Rider Trail North, Earth City State, Zip MO, 63045		Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Accreditations Required (See note): 180-153324-2		Job #: 180-153324-2					
Due Date Requested: 4/11/2023		TAT Requested (days):		Analysis Requested							
PO #:		WO #:									
Project Name: Plant Watson Ash Pond		Project #: 18020186		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 Y - Trizma L - EDA 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=water, A=air)	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	Total Number of Containers	Special Instructions/Note:
APMW-11 (180-153324-1)	3/7/23	11:17 Eastern	Water	Water	X	X	X	X	X	2	
DUP-01 (180-153324-2)	3/7/23	10:17 Eastern	Water	Water	X	X	X	X	X	2	
APMW-1R (180-153324-3)	3/8/23	08:26 Eastern	Water	Water	X	X	X	X	X	2	
APMW-2 (180-153324-4)	3/8/23	10:25 Eastern	Water	Water	X	X	X	X	X	2	8

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____
 Relinquished by: *Paul Colley* Date: 3-17-23 Time: 1800 Company: *FEDEX*
 Relinquished by: _____ Date/Time: _____ Received by: *FEDEX* Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Received by: *Bruna Shantony - Jorgensen* Date/Time: 3/20/23 09:40 Company: *ETAS IL*

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-153324-2

Login Number: 153324

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.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-153324-2

Login Number: 153324

List Number: 3

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	
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.	False	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	N/A	
Samples are received within Holding Time.	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	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-153324-2

Login Number: 153324

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 03/14/23 11:28 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	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-153324-2

Login Number: 153324

List Number: 4

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 03/20/23 12:47 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

PREPARED FOR

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

Generated 5/18/2023 10:18:18 AM

JOB DESCRIPTION

Plant Watson Ash Pond

JOB NUMBER

180-153376-1

Eurofins Pittsburgh

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Pittsburgh and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Pittsburgh Project Manager or designee who has signed this report.

PA Lab ID: 02-00416

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

Authorization



Generated
5/18/2023 10:18:18 AM

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



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions/Glossary	5
Certification Summary	6
Sample Summary	7
Method Summary	8
Lab Chronicle	9
Client Sample Results	16
QC Sample Results	27
QC Association Summary	35
Chain of Custody	40
Receipt Checklists	43

Case Narrative

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

Job ID: 180-153376-1

Job ID: 180-153376-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-153376-1

Receipt

The samples were received on 3/10/2023 9:28 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 3.4°C, 3.8°C and 4.0°C

HPLC/IC

Method 300_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: APMW-8 (180-153376-1), PZ-4 (180-153376-3), APMW-5 (180-153376-4), APMW-7 (180-153376-7) and APMW-6R (180-153376-8) at 10.0, 5.0, 2.5, 25.0, 10.0 and 10.0. Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: Reanalysis of the following samples were performed outside of the analytical holding time due to analyst error : FB-01 (180-153376-9) and EB-01 (180-153376-10).

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

Metals

Method 6020B: The continuing calibration verification (CCV) associated with batch 180-433426 recovered above the upper control limit for Beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: APMW-8 (180-153376-1), APMW-6D (180-153376-2), PZ-4 (180-153376-3), APMW-5 (180-153376-4), APMW-8D (180-153376-5), DUP-03 (180-153376-6), APMW-7 (180-153376-7), APMW-6R (180-153376-8), FB-01 (180-153376-9), EB-01 (180-153376-10) and APMW-5D (180-153376-11).

Method 6020B: The following samples were diluted to bring the concentration of several analytes to within the instrument's linear range as well as for the matrix of the sample after digestion: APMW-8 (180-153376-1), PZ-4 (180-153376-3), APMW-5 (180-153376-4), APMW-8D (180-153376-5), DUP-03 (180-153376-6), APMW-7 (180-153376-7) and APMW-6R (180-153376-8). Elevated reporting limits (RLs) are provided.

Method 6020B: The following sample was diluted to bring the concentration of sodium to within the instrument's linear range: APMW-8 (180-153376-1). Elevated reporting limits (RLs) are provided.

Method 6020B: The following sample was diluted to bring the concentration of silicon to within the instrument's linear range: APMW-6D (180-153376-2). 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 5310C: The continuing calibration verification (CCV) associated with batch 180-431142 recovered above the upper control limit for Total Organic Carbon - Quad. Insufficient sample was provided for reanalysis, therefore, the samples associated with the CCV have been reported. APMW-8 (180-153376-1), APMW-6D (180-153376-2), APMW-6R (180-153376-8) and FB-01 (180-153376-9)

Method 5310C: Sample result RSD exceeded +/- 10% for method 5310C; however, sample result was below the reporting limit. Sample result will be reported with this qualification. APMW-6D (180-153376-2) and FB-01 (180-153376-9)

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

Field Service / Mobile Lab

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: 180-153376-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
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.

General Chemistry

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
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: 180-153376-1

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	06-27-23
California	State	2891	04-30-24
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-24
Illinois	NELAP	004375	06-30-24
Kansas	NELAP	E-10350	01-31-24
Kentucky (UST)	State	162013	04-30-23 *
Kentucky (WW)	State	KY98043	12-31-23
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-23
New Hampshire	NELAP	2030	04-04-24
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-01-24
North Carolina (WW/SW)	State	434	12-31-23
North Dakota	State	R-227	04-30-23 *
Oregon	NELAP	PA-2151	02-06-24
Pennsylvania	NELAP	02-00416	04-30-24
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-23 *
Texas	NELAP	T104704528	03-31-24
US Fish & Wildlife	US Federal Programs	058448	03-31-24
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-31-23
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	03-31-24
Wisconsin	State	998027800	08-31-23

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



Sample Summary

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

Job ID: 180-153376-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-153376-1	APMW-8	Water	03/09/23 15:10	03/10/23 09:28
180-153376-2	APMW-6D	Water	03/09/23 12:12	03/10/23 09:28
180-153376-3	PZ-4	Water	03/09/23 10:56	03/10/23 09:28
180-153376-4	APMW-5	Water	03/09/23 08:45	03/10/23 09:28
180-153376-5	APMW-8D	Water	03/09/23 14:53	03/10/23 09:28
180-153376-6	DUP-03	Water	03/09/23 13:53	03/10/23 09:28
180-153376-7	APMW-7	Water	03/09/23 12:30	03/10/23 09:28
180-153376-8	APMW-6R	Water	03/09/23 10:24	03/10/23 09:28
180-153376-9	FB-01	Water	03/09/23 09:07	03/10/23 09:28
180-153376-10	EB-01	Water	03/09/23 09:17	03/10/23 09:28
180-153376-11	APMW-5D	Water	03/09/23 07:21	03/10/23 09:28

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

Method Summary

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

Job ID: 180-153376-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET PIT
EPA 6020B	Metals (ICP/MS)	SW846	EET PIT
EPA 7470A	Mercury (CVAA)	SW846	EET PIT
5310 C-2014	Total Organic Carbon/Persulfate - Ultrav	SM	EET PIT
EPA 353.2	Nitrogen, Nitrate-Nitrite	EPA	EET PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PIT
SM2320 B	Alkalinity, Total	SM18	EET PIT
Field Sampling	Field Sampling	EPA	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
7470A	Preparation, Mercury	SW846	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

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:

EET 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: 180-153376-1

Client Sample ID: APMW-8
Date Collected: 03/09/23 15:10
Date Received: 03/10/23 09:28

Lab Sample ID: 180-153376-1
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	1 mL	1 mL	428866	03/12/23 04:39	SNL	EET PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		10	1 mL	1 mL	428866	03/12/23 04:58	SNL	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	430460	03/27/23 11:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		20			435413	05/16/23 20:10	KED	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	430460	03/27/23 11:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433426	04/25/23 19:51	DSH	EET PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			25 mL	25 mL	430460	03/27/23 11:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		20			433538	04/26/23 22:26	DSH	EET PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	429984	03/22/23 07:40	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			430125	03/22/23 15:55	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	431142	04/01/23 06:06	LWM	EET PIT
Instrument ID: SAM										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	429465	03/16/23 11:48	SNR	EET PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	429335	03/15/23 18:44	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			429212	03/14/23 19:36	MAM	EET PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			431333	03/09/23 15:10	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-6D
Date Collected: 03/09/23 12:12
Date Received: 03/10/23 09:28

Lab Sample ID: 180-153376-2
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	300.0		1	1 mL	1 mL	428866	03/12/23 08:58	SNL	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	430460	03/27/23 11:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433426	04/25/23 20:09	DSH	EET PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			25 mL	25 mL	430460	03/27/23 11:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		10			435527	05/17/23 18:05	RJR	EET PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	429984	03/22/23 07:40	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			430125	03/22/23 15:56	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	431142	04/01/23 06:29	LWM	EET PIT
Instrument ID: SAM										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-153376-1

Client Sample ID: APMW-6D

Lab Sample ID: 180-153376-2

Date Collected: 03/09/23 12:12

Matrix: Water

Date Received: 03/10/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	429465	03/16/23 11:50	SNR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	429336	03/15/23 19:31	LWM	EET PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			429212	03/14/23 19:52	MAM	EET PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			431333	03/09/23 12:12	FDS	EET PIT

Client Sample ID: PZ-4

Lab Sample ID: 180-153376-3

Date Collected: 03/09/23 10:56

Matrix: Water

Date Received: 03/10/23 09:28

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		1	1 mL	1 mL	428866	03/12/23 05:16	SNL	EET PIT
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		5	1 mL	1 mL	428866	03/12/23 05:34	SNL	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430460	03/27/23 11:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			433426	04/25/23 20:18	DSH	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430460	03/27/23 11:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		10			433538	04/26/23 22:32	DSH	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429984	03/22/23 07:40	RJR	EET PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			430125	03/22/23 15:57	RJR	EET PIT
Total/NA	Analysis	5310 C-2014 Instrument ID: TOC1030		1	40 mL	40 mL	430212	03/22/23 22:35	LWM	EET PIT
Total/NA	Analysis	EPA 353.2 Instrument ID: ASTORIA2		1	10 mL	10 mL	429465	03/16/23 11:52	SNR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	25 mL	100 mL	429336	03/15/23 19:31	LWM	EET PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			429212	03/14/23 19:57	MAM	EET PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			431333	03/09/23 10:56	FDS	EET PIT

Client Sample ID: APMW-5

Lab Sample ID: 180-153376-4

Date Collected: 03/09/23 08:45

Matrix: Water

Date Received: 03/10/23 09:28

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	1 mL	1 mL	428866	03/12/23 06:30	SNL	EET PIT

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-153376-1

Client Sample ID: APMW-5

Lab Sample ID: 180-153376-4

Date Collected: 03/09/23 08:45

Matrix: Water

Date Received: 03/10/23 09:28

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	1 mL	1 mL	428866	03/12/23 06:49	SNL	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430460	03/27/23 11:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433426	04/25/23 20:36	DSH	EET PIT
		Instrument ID: NEMO								
Total Recoverable	Prep	3005A			25 mL	25 mL	430460	03/27/23 11:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		10			433538	04/26/23 22:35	DSH	EET PIT
		Instrument ID: NEMO								
Total/NA	Prep	7470A			25 mL	25 mL	429984	03/22/23 07:40	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			430125	03/22/23 15:58	RJR	EET PIT
		Instrument ID: HGZ								
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	430212	03/22/23 22:59	LWM	EET PIT
		Instrument ID: TOC1030								
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	429465	03/16/23 11:53	SNR	EET PIT
		Instrument ID: ASTORIA2								
Total/NA	Analysis	SM 2540C		1	5 mL	100 mL	429336	03/15/23 19:31	LWM	EET PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			429212	03/14/23 20:03	MAM	EET PIT
		Instrument ID: PCTITRATOR								
Total/NA	Analysis	Field Sampling		1			431333	03/09/23 08:45	FDS	EET PIT
		Instrument ID: NOEQUIP								

Client Sample ID: APMW-8D

Lab Sample ID: 180-153376-5

Date Collected: 03/09/23 14:53

Matrix: Water

Date Received: 03/10/23 09:28

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	1 mL	1 mL	428866	03/12/23 07:07	SNL	EET PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			25 mL	25 mL	430460	03/27/23 11:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433426	04/25/23 20:54	DSH	EET PIT
		Instrument ID: NEMO								
Total Recoverable	Prep	3005A			25 mL	25 mL	430460	03/27/23 11:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		10			433538	04/26/23 22:38	DSH	EET PIT
		Instrument ID: NEMO								
Total/NA	Prep	7470A			25 mL	25 mL	429984	03/22/23 07:40	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			430125	03/22/23 15:59	RJR	EET PIT
		Instrument ID: HGZ								
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	430212	03/22/23 23:23	LWM	EET PIT
		Instrument ID: TOC1030								
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	429465	03/16/23 11:55	SNR	EET PIT
		Instrument ID: ASTORIA2								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	429336	03/15/23 19:31	LWM	EET PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			429212	03/14/23 20:10	MAM	EET PIT
		Instrument ID: PCTITRATOR								

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-153376-1

Client Sample ID: APMW-8D

Lab Sample ID: 180-153376-5

Date Collected: 03/09/23 14:53

Matrix: Water

Date Received: 03/10/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			431333	03/09/23 14:53	FDS	EET PIT

Client Sample ID: DUP-03

Lab Sample ID: 180-153376-6

Date Collected: 03/09/23 13:53

Matrix: Water

Date Received: 03/10/23 09:28

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	1 mL	1 mL	428866	03/12/23 07:26	SNL	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	430460	03/27/23 11:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433426	04/25/23 20:57	DSH	EET PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			25 mL	25 mL	430460	03/27/23 11:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		10			433538	04/26/23 22:41	DSH	EET PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	429984	03/22/23 07:40	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			430125	03/22/23 16:00	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	430212	03/22/23 23:47	LWM	EET PIT
Instrument ID: TOC1030										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	429465	03/16/23 11:56	SNR	EET PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	429336	03/15/23 19:31	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			429212	03/14/23 20:16	MAM	EET PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			431333	03/09/23 13:53	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: APMW-7

Lab Sample ID: 180-153376-7

Date Collected: 03/09/23 12:30

Matrix: Water

Date Received: 03/10/23 09:28

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	1 mL	1 mL	428866	03/12/23 07:44	SNL	EET PIT
Instrument ID: INTEGRION										
Total/NA	Analysis	300.0		10	1 mL	1 mL	428866	03/12/23 08:02	SNL	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	430460	03/27/23 11:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433426	04/25/23 21:00	DSH	EET PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			25 mL	25 mL	430460	03/27/23 11:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		10			433538	04/26/23 22:44	DSH	EET PIT
Instrument ID: NEMO										

Lab Chronicle

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

Job ID: 180-153376-1

Client Sample ID: APMW-7

Lab Sample ID: 180-153376-7

Date Collected: 03/09/23 12:30

Matrix: Water

Date Received: 03/10/23 09:28

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	429984	03/22/23 07:40	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			430125	03/22/23 16:05	RJR	EET PIT
		Instrument ID: HGZ								
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	430212	03/23/23 00:37	LWM	EET PIT
		Instrument ID: TOC1030								
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	429465	03/16/23 12:11	SNR	EET PIT
		Instrument ID: ASTORIA2								
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	429336	03/15/23 19:31	LWM	EET PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			429212	03/14/23 20:21	MAM	EET PIT
		Instrument ID: PCTITRATOR								
Total/NA	Analysis	Field Sampling		1			431333	03/09/23 12:30	FDS	EET PIT
		Instrument ID: NOEQUIP								

Client Sample ID: APMW-6R

Lab Sample ID: 180-153376-8

Date Collected: 03/09/23 10:24

Matrix: Water

Date Received: 03/10/23 09:28

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	1 mL	1 mL	428866	03/12/23 10:30	SNL	EET PIT
		Instrument ID: INTEGRION								
Total/NA	Analysis	300.0		10	1 mL	1 mL	428866	03/12/23 10:49	SNL	EET PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			25 mL	25 mL	430460	03/27/23 11:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433426	04/25/23 21:09	DSH	EET PIT
		Instrument ID: NEMO								
Total Recoverable	Prep	3005A			25 mL	25 mL	430460	03/27/23 11:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		10			433538	04/26/23 22:53	DSH	EET PIT
		Instrument ID: NEMO								
Total/NA	Prep	7470A			25 mL	25 mL	429984	03/22/23 07:40	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			430125	03/22/23 16:06	RJR	EET PIT
		Instrument ID: HGZ								
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	431142	04/01/23 06:53	LWM	EET PIT
		Instrument ID: SAM								
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	429465	03/16/23 12:12	SNR	EET PIT
		Instrument ID: ASTORIA2								
Total/NA	Analysis	SM 2540C		1	10 mL	100 mL	429336	03/15/23 19:31	LWM	EET PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			429212	03/14/23 20:30	MAM	EET PIT
		Instrument ID: PCTITRATOR								
Total/NA	Analysis	Field Sampling		1			431333	03/09/23 10:24	FDS	EET PIT
		Instrument ID: NOEQUIP								

Lab Chronicle

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

Job ID: 180-153376-1

Client Sample ID: FB-01

Lab Sample ID: 180-153376-9

Date Collected: 03/09/23 09:07

Matrix: Water

Date Received: 03/10/23 09:28

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	1 mL	1 mL	431807	04/10/23 13:42	SNL	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		1	1 mL	1 mL	428866	03/12/23 11:07	SNL	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	430460	03/27/23 11:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433426	04/25/23 21:27	DSH	EET PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	429984	03/22/23 07:40	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			430125	03/22/23 16:07	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	431142	04/01/23 08:48	LWM	EET PIT
Instrument ID: SAM										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	429465	03/16/23 12:14	SNR	EET PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	429336	03/15/23 19:31	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			429212	03/14/23 20:36	MAM	EET PIT
Instrument ID: PCTITRATOR										

Client Sample ID: EB-01

Lab Sample ID: 180-153376-10

Date Collected: 03/09/23 09:17

Matrix: Water

Date Received: 03/10/23 09:28

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	1 mL	1 mL	431807	04/10/23 13:56	SNL	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		1	1 mL	1 mL	428866	03/12/23 11:26	SNL	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	430460	03/27/23 11:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433426	04/25/23 21:30	DSH	EET PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	429984	03/22/23 07:40	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			430125	03/22/23 16:08	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	431710	04/05/23 19:24	LWM	EET PIT
Instrument ID: TOC1030										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	429465	03/16/23 12:15	SNR	EET PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	429336	03/15/23 19:31	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			429212	03/14/23 21:04	MAM	EET PIT
Instrument ID: PCTITRATOR										

Lab Chronicle

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

Job ID: 180-153376-1

Client Sample ID: APMW-5D

Lab Sample ID: 180-153376-11

Date Collected: 03/09/23 07:21

Matrix: Water

Date Received: 03/10/23 09:28

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	1 mL	1 mL	428866	03/12/23 11:44	SNL	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	430460	03/27/23 11:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433426	04/25/23 21:34	DSH	EET PIT
Instrument ID: NEMO										
Total Recoverable	Prep	3005A			25 mL	25 mL	430460	03/27/23 11:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433538	04/26/23 23:02	DSH	EET PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	429984	03/22/23 07:40	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			430125	03/22/23 16:09	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	431710	04/05/23 19:48	LWM	EET PIT
Instrument ID: TOC1030										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	429465	03/16/23 12:17	SNR	EET PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	429336	03/15/23 19:31	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			429212	03/14/23 21:09	MAM	EET PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			431333	03/09/23 07:21	FDS	EET PIT
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: EET PIT

Batch Type: Prep

HCY = Harrison Yaeger

RJR = Ron Rosenbaum

Batch Type: Analysis

DSH = David Heakin

FDS = Sampler Field

KED = Katie Dacko

LWM = Leslie McIntire

MAM = Matthew Martin

RJR = Ron Rosenbaum

SNL = Sean Lordo

SNR = Sabra Richart

Client Sample Results

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

Job ID: 180-153376-1

Client Sample ID: APMW-8

Lab Sample ID: 180-153376-1

Date Collected: 03/09/23 15:10

Matrix: Water

Date Received: 03/10/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	13		0.10	0.053	mg/L			03/12/23 04:39	1
Chloride	3300		10	7.1	mg/L			03/12/23 04:58	10
Fluoride	0.59		0.20	0.026	mg/L			03/12/23 04:39	1
Sulfate	570		1.0	0.76	mg/L			03/12/23 04:39	1

Method: SW846 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		03/27/23 11:30	04/25/23 19:51	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/27/23 11:30	04/25/23 19:51	1
Arsenic	0.011		0.0010	0.00028	mg/L		03/27/23 11:30	04/25/23 19:51	1
Barium	0.30		0.010	0.0031	mg/L		03/27/23 11:30	04/25/23 19:51	1
Beryllium	0.00030	J ^+	0.0025	0.00027	mg/L		03/27/23 11:30	04/25/23 19:51	1
Boron	19		1.6	1.2	mg/L		03/27/23 11:30	04/26/23 22:26	20
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/27/23 11:30	04/25/23 19:51	1
Calcium	470		0.50	0.13	mg/L		03/27/23 11:30	04/25/23 19:51	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/27/23 11:30	04/25/23 19:51	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/27/23 11:30	04/25/23 19:51	1
Lead	0.00075	J B	0.0010	0.00038	mg/L		03/27/23 11:30	04/25/23 19:51	1
Lithium	0.067	B	0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 19:51	1
Molybdenum	0.018		0.015	0.00061	mg/L		03/27/23 11:30	04/25/23 19:51	1
Selenium	0.00076	J	0.0050	0.00074	mg/L		03/27/23 11:30	04/25/23 19:51	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/27/23 11:30	04/25/23 19:51	1
Iron	4.6	B	0.050	0.028	mg/L		03/27/23 11:30	04/25/23 19:51	1
Potassium	86		0.50	0.16	mg/L		03/27/23 11:30	04/25/23 19:51	1
Magnesium	92		0.50	0.050	mg/L		03/27/23 11:30	04/25/23 19:51	1
Manganese	0.10		0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 19:51	1
Sodium	2000	B	10	3.7	mg/L		03/27/23 11:30	05/16/23 20:10	20
Silicon	7.3	J	10	1.2	mg/L		03/27/23 11:30	04/26/23 22:26	20
Strontium	5.2		0.0050	0.0017	mg/L		03/27/23 11:30	04/25/23 19:51	1
SiO2, Silica	16	J	21	3.0	mg/L		03/27/23 11:30	04/26/23 22:26	20

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/22/23 07:40	03/22/23 15:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	5.7	^+	1.0	0.51	mg/L			04/01/23 06:06	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/16/23 11:48	1
Total Dissolved Solids (SM 2540C)	7400		100	100	mg/L			03/15/23 18:44	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	400		5.0	5.0	mg/L			03/14/23 19:36	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	400		5.0	5.0	mg/L			03/14/23 19:36	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/14/23 19:36	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.50				SU			03/09/23 15:10	1

Eurofins Pittsburgh

Client Sample Results

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

Job ID: 180-153376-1

Client Sample ID: APMW-6D

Lab Sample ID: 180-153376-2

Date Collected: 03/09/23 12:12

Matrix: Water

Date Received: 03/10/23 09:28

Method: EPA 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			03/12/23 08:58	1
Chloride	20		1.0	0.71	mg/L			03/12/23 08:58	1
Fluoride	0.080	J	0.20	0.026	mg/L			03/12/23 08:58	1
Sulfate	19		1.0	0.76	mg/L			03/12/23 08:58	1

Method: SW846 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		03/27/23 11:30	04/25/23 20:09	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/27/23 11:30	04/25/23 20:09	1
Arsenic	0.0041		0.0010	0.00028	mg/L		03/27/23 11:30	04/25/23 20:09	1
Barium	0.15		0.010	0.0031	mg/L		03/27/23 11:30	04/25/23 20:09	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/27/23 11:30	04/25/23 20:09	1
Boron	0.11		0.080	0.060	mg/L		03/27/23 11:30	04/25/23 20:09	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/27/23 11:30	04/25/23 20:09	1
Calcium	12		0.50	0.13	mg/L		03/27/23 11:30	04/25/23 20:09	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/27/23 11:30	04/25/23 20:09	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/27/23 11:30	04/25/23 20:09	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/27/23 11:30	04/25/23 20:09	1
Lithium	0.010	B	0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 20:09	1
Molybdenum	0.0017	J	0.015	0.00061	mg/L		03/27/23 11:30	04/25/23 20:09	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/27/23 11:30	04/25/23 20:09	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/27/23 11:30	04/25/23 20:09	1
Iron	1.6	B	0.050	0.028	mg/L		03/27/23 11:30	04/25/23 20:09	1
Potassium	3.4		0.50	0.16	mg/L		03/27/23 11:30	04/25/23 20:09	1
Magnesium	2.1		0.50	0.050	mg/L		03/27/23 11:30	04/25/23 20:09	1
Manganese	0.16		0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 20:09	1
Sodium	43	B	0.50	0.18	mg/L		03/27/23 11:30	04/25/23 20:09	1
Silicon	20		5.0	0.62	mg/L		03/27/23 11:30	05/17/23 18:05	10
Strontium	0.25		0.0050	0.0017	mg/L		03/27/23 11:30	04/25/23 20:09	1
SiO2, Silica	42		11	1.5	mg/L		03/27/23 11:30	05/17/23 18:05	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/22/23 07:40	03/22/23 15:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	0.62	J ^+	1.0	0.51	mg/L			04/01/23 06:29	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/16/23 11:50	1
Total Dissolved Solids (SM 2540C)	190		10	10	mg/L			03/15/23 19:31	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	92		5.0	5.0	mg/L			03/14/23 19:52	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	92		5.0	5.0	mg/L			03/14/23 19:52	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/14/23 19:52	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.92				SU			03/09/23 12:12	1

Eurofins Pittsburgh

Client Sample Results

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

Job ID: 180-153376-1

Client Sample ID: PZ-4

Lab Sample ID: 180-153376-3

Date Collected: 03/09/23 10:56

Matrix: Water

Date Received: 03/10/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	8.5		0.10	0.053	mg/L			03/12/23 05:16	1
Chloride	2100		5.0	3.6	mg/L			03/12/23 05:34	5
Fluoride	1.2		0.20	0.026	mg/L			03/12/23 05:16	1
Sulfate	230		1.0	0.76	mg/L			03/12/23 05:16	1

Method: SW846 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		03/27/23 11:30	04/25/23 20:18	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/27/23 11:30	04/25/23 20:18	1
Arsenic	0.22		0.0010	0.00028	mg/L		03/27/23 11:30	04/25/23 20:18	1
Barium	0.25		0.010	0.0031	mg/L		03/27/23 11:30	04/25/23 20:18	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/27/23 11:30	04/25/23 20:18	1
Boron	14		0.80	0.60	mg/L		03/27/23 11:30	04/26/23 22:32	10
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/27/23 11:30	04/25/23 20:18	1
Calcium	280		0.50	0.13	mg/L		03/27/23 11:30	04/25/23 20:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/27/23 11:30	04/25/23 20:18	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/27/23 11:30	04/25/23 20:18	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/27/23 11:30	04/25/23 20:18	1
Lithium	0.019	B	0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 20:18	1
Molybdenum	0.60		0.015	0.00061	mg/L		03/27/23 11:30	04/25/23 20:18	1
Selenium	0.00077	J	0.0050	0.00074	mg/L		03/27/23 11:30	04/25/23 20:18	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/27/23 11:30	04/25/23 20:18	1
Iron	30	B	0.050	0.028	mg/L		03/27/23 11:30	04/25/23 20:18	1
Potassium	51		0.50	0.16	mg/L		03/27/23 11:30	04/25/23 20:18	1
Magnesium	44		0.50	0.050	mg/L		03/27/23 11:30	04/25/23 20:18	1
Manganese	0.48		0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 20:18	1
Sodium	1300	B	5.0	1.8	mg/L		03/27/23 11:30	04/26/23 22:32	10
Silicon	7.3		0.50	0.062	mg/L		03/27/23 11:30	04/25/23 20:18	1
Strontium	3.7		0.0050	0.0017	mg/L		03/27/23 11:30	04/25/23 20:18	1
SiO2, Silica	16		1.1	0.15	mg/L		03/27/23 11:30	04/25/23 20:18	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/22/23 07:40	03/22/23 15:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	5.4		1.0	0.51	mg/L			03/22/23 22:35	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/16/23 11:52	1
Total Dissolved Solids (SM 2540C)	4300		40	40	mg/L			03/15/23 19:31	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	230		5.0	5.0	mg/L			03/14/23 19:57	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	230		5.0	5.0	mg/L			03/14/23 19:57	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/14/23 19:57	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.21				SU			03/09/23 10:56	1

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Client Sample Results

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

Job ID: 180-153376-1

Client Sample ID: APMW-5

Lab Sample ID: 180-153376-4

Date Collected: 03/09/23 08:45

Matrix: Water

Date Received: 03/10/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	30		0.25	0.13	mg/L			03/12/23 06:30	2.5
Chloride	7800		25	18	mg/L			03/12/23 06:49	25
Fluoride	0.12	J	0.50	0.065	mg/L			03/12/23 06:30	2.5
Sulfate	810		2.5	1.9	mg/L			03/12/23 06:30	2.5

Method: SW846 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		03/27/23 11:30	04/25/23 20:36	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/27/23 11:30	04/25/23 20:36	1
Arsenic	0.22		0.0010	0.00028	mg/L		03/27/23 11:30	04/25/23 20:36	1
Barium	0.11		0.010	0.0031	mg/L		03/27/23 11:30	04/25/23 20:36	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/27/23 11:30	04/25/23 20:36	1
Boron	6.6		0.80	0.60	mg/L		03/27/23 11:30	04/26/23 22:35	10
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/27/23 11:30	04/25/23 20:36	1
Calcium	310		0.50	0.13	mg/L		03/27/23 11:30	04/25/23 20:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/27/23 11:30	04/25/23 20:36	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/27/23 11:30	04/25/23 20:36	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/27/23 11:30	04/25/23 20:36	1
Lithium	0.040	B	0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 20:36	1
Molybdenum	0.15		0.015	0.00061	mg/L		03/27/23 11:30	04/25/23 20:36	1
Selenium	0.0016	J	0.0050	0.00074	mg/L		03/27/23 11:30	04/25/23 20:36	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/27/23 11:30	04/25/23 20:36	1
Iron	26	B	0.050	0.028	mg/L		03/27/23 11:30	04/25/23 20:36	1
Potassium	140		0.50	0.16	mg/L		03/27/23 11:30	04/25/23 20:36	1
Magnesium	470		0.50	0.050	mg/L		03/27/23 11:30	04/25/23 20:36	1
Manganese	0.52		0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 20:36	1
Sodium	4400	B	5.0	1.8	mg/L		03/27/23 11:30	04/26/23 22:35	10
Silicon	12		5.0	0.62	mg/L		03/27/23 11:30	04/26/23 22:35	10
Strontium	5.2		0.0050	0.0017	mg/L		03/27/23 11:30	04/25/23 20:36	1
SiO2, Silica	26		11	1.5	mg/L		03/27/23 11:30	04/26/23 22:35	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/22/23 07:40	03/22/23 15:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	3.6		1.0	0.51	mg/L			03/22/23 22:59	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/16/23 11:53	1
Total Dissolved Solids (SM 2540C)	15000		200	200	mg/L			03/15/23 19:31	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	230		5.0	5.0	mg/L			03/14/23 20:03	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	230		5.0	5.0	mg/L			03/14/23 20:03	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/14/23 20:03	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.28				SU			03/09/23 08:45	1

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Client Sample Results

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

Job ID: 180-153376-1

Client Sample ID: APMW-8D

Lab Sample ID: 180-153376-5

Date Collected: 03/09/23 14:53

Matrix: Water

Date Received: 03/10/23 09:28

Method: EPA 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			03/12/23 07:07	1
Chloride	6.7		1.0	0.71	mg/L			03/12/23 07:07	1
Fluoride	0.066	J	0.20	0.026	mg/L			03/12/23 07:07	1
Sulfate	9.3		1.0	0.76	mg/L			03/12/23 07:07	1

Method: SW846 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		03/27/23 11:30	04/25/23 20:54	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/27/23 11:30	04/25/23 20:54	1
Arsenic	0.0021		0.0010	0.00028	mg/L		03/27/23 11:30	04/25/23 20:54	1
Barium	0.10		0.010	0.0031	mg/L		03/27/23 11:30	04/25/23 20:54	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/27/23 11:30	04/25/23 20:54	1
Boron	0.091		0.080	0.060	mg/L		03/27/23 11:30	04/25/23 20:54	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/27/23 11:30	04/25/23 20:54	1
Calcium	6.6		0.50	0.13	mg/L		03/27/23 11:30	04/25/23 20:54	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/27/23 11:30	04/25/23 20:54	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/27/23 11:30	04/25/23 20:54	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/27/23 11:30	04/25/23 20:54	1
Lithium	0.0071	B	0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 20:54	1
Molybdenum	0.00086	J	0.015	0.00061	mg/L		03/27/23 11:30	04/25/23 20:54	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/27/23 11:30	04/25/23 20:54	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/27/23 11:30	04/25/23 20:54	1
Iron	5.1	B	0.050	0.028	mg/L		03/27/23 11:30	04/25/23 20:54	1
Potassium	2.3		0.50	0.16	mg/L		03/27/23 11:30	04/25/23 20:54	1
Magnesium	2.2		0.50	0.050	mg/L		03/27/23 11:30	04/25/23 20:54	1
Manganese	0.12		0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 20:54	1
Sodium	30	B	0.50	0.18	mg/L		03/27/23 11:30	04/25/23 20:54	1
Silicon	16		5.0	0.62	mg/L		03/27/23 11:30	04/26/23 22:38	10
Strontium	0.077		0.0050	0.0017	mg/L		03/27/23 11:30	04/25/23 20:54	1
SiO2, Silica	34		11	1.5	mg/L		03/27/23 11:30	04/26/23 22:38	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/22/23 07:40	03/22/23 15:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	0.76	J	1.0	0.51	mg/L			03/22/23 23:23	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/16/23 11:55	1
Total Dissolved Solids (SM 2540C)	110		10	10	mg/L			03/15/23 19:31	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	77		5.0	5.0	mg/L			03/14/23 20:10	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	77		5.0	5.0	mg/L			03/14/23 20:10	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/14/23 20:10	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.49				SU			03/09/23 14:53	1

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Client Sample Results

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

Job ID: 180-153376-1

Client Sample ID: DUP-03

Lab Sample ID: 180-153376-6

Date Collected: 03/09/23 13:53

Matrix: Water

Date Received: 03/10/23 09:28

Method: EPA 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			03/12/23 07:26	1
Chloride	6.6		1.0	0.71	mg/L			03/12/23 07:26	1
Fluoride	0.064	J	0.20	0.026	mg/L			03/12/23 07:26	1
Sulfate	9.1		1.0	0.76	mg/L			03/12/23 07:26	1

Method: SW846 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		03/27/23 11:30	04/25/23 20:57	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/27/23 11:30	04/25/23 20:57	1
Arsenic	0.0022		0.0010	0.00028	mg/L		03/27/23 11:30	04/25/23 20:57	1
Barium	0.10		0.010	0.0031	mg/L		03/27/23 11:30	04/25/23 20:57	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/27/23 11:30	04/25/23 20:57	1
Boron	0.078	J	0.080	0.060	mg/L		03/27/23 11:30	04/25/23 20:57	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/27/23 11:30	04/25/23 20:57	1
Calcium	6.7		0.50	0.13	mg/L		03/27/23 11:30	04/25/23 20:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/27/23 11:30	04/25/23 20:57	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/27/23 11:30	04/25/23 20:57	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/27/23 11:30	04/25/23 20:57	1
Lithium	0.0041	J B	0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 20:57	1
Molybdenum	0.00086	J	0.015	0.00061	mg/L		03/27/23 11:30	04/25/23 20:57	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/27/23 11:30	04/25/23 20:57	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/27/23 11:30	04/25/23 20:57	1
Iron	4.9	B	0.050	0.028	mg/L		03/27/23 11:30	04/25/23 20:57	1
Potassium	2.4		0.50	0.16	mg/L		03/27/23 11:30	04/25/23 20:57	1
Magnesium	2.2		0.50	0.050	mg/L		03/27/23 11:30	04/25/23 20:57	1
Manganese	0.13		0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 20:57	1
Sodium	30	B	0.50	0.18	mg/L		03/27/23 11:30	04/25/23 20:57	1
Silicon	15		5.0	0.62	mg/L		03/27/23 11:30	04/26/23 22:41	10
Strontium	0.079		0.0050	0.0017	mg/L		03/27/23 11:30	04/25/23 20:57	1
SiO2, Silica	32		11	1.5	mg/L		03/27/23 11:30	04/26/23 22:41	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/22/23 07:40	03/22/23 16:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	0.66	J	1.0	0.51	mg/L			03/22/23 23:47	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/16/23 11:56	1
Total Dissolved Solids (SM 2540C)	120		10	10	mg/L			03/15/23 19:31	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	75		5.0	5.0	mg/L			03/14/23 20:16	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	75		5.0	5.0	mg/L			03/14/23 20:16	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/14/23 20:16	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.49				SU			03/09/23 13:53	1

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Client Sample Results

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

Job ID: 180-153376-1

Client Sample ID: APMW-7

Lab Sample ID: 180-153376-7

Date Collected: 03/09/23 12:30

Matrix: Water

Date Received: 03/10/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	15		0.10	0.053	mg/L			03/12/23 07:44	1
Chloride	4200		10	7.1	mg/L			03/12/23 08:02	10
Fluoride	0.14	J	0.20	0.026	mg/L			03/12/23 07:44	1
Sulfate	79		1.0	0.76	mg/L			03/12/23 07:44	1

Method: SW846 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		03/27/23 11:30	04/25/23 21:00	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/27/23 11:30	04/25/23 21:00	1
Arsenic	0.00051	J	0.0010	0.00028	mg/L		03/27/23 11:30	04/25/23 21:00	1
Barium	0.65		0.010	0.0031	mg/L		03/27/23 11:30	04/25/23 21:00	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/27/23 11:30	04/25/23 21:00	1
Boron	0.87		0.080	0.060	mg/L		03/27/23 11:30	04/25/23 21:00	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/27/23 11:30	04/25/23 21:00	1
Calcium	110		0.50	0.13	mg/L		03/27/23 11:30	04/25/23 21:00	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/27/23 11:30	04/25/23 21:00	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/27/23 11:30	04/25/23 21:00	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/27/23 11:30	04/25/23 21:00	1
Lithium	0.0071	B	0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 21:00	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/27/23 11:30	04/25/23 21:00	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/27/23 11:30	04/25/23 21:00	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/27/23 11:30	04/25/23 21:00	1
Iron	2.2	B	0.050	0.028	mg/L		03/27/23 11:30	04/25/23 21:00	1
Potassium	52		0.50	0.16	mg/L		03/27/23 11:30	04/25/23 21:00	1
Magnesium	300		0.50	0.050	mg/L		03/27/23 11:30	04/25/23 21:00	1
Manganese	0.069		0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 21:00	1
Sodium	2400	B	5.0	1.8	mg/L		03/27/23 11:30	04/26/23 22:44	10
Silicon	14		5.0	0.62	mg/L		03/27/23 11:30	04/26/23 22:44	10
Strontium	1.8		0.0050	0.0017	mg/L		03/27/23 11:30	04/25/23 21:00	1
SiO2, Silica	31		11	1.5	mg/L		03/27/23 11:30	04/26/23 22:44	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/22/23 07:40	03/22/23 16:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	9.7		1.0	0.51	mg/L			03/23/23 00:37	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/16/23 12:11	1
Total Dissolved Solids (SM 2540C)	7900		100	100	mg/L			03/15/23 19:31	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	640		5.0	5.0	mg/L			03/14/23 20:21	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	640		5.0	5.0	mg/L			03/14/23 20:21	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/14/23 20:21	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.37				SU			03/09/23 12:30	1

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Client Sample Results

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

Job ID: 180-153376-1

Client Sample ID: APMW-6R

Lab Sample ID: 180-153376-8

Date Collected: 03/09/23 10:24

Matrix: Water

Date Received: 03/10/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	19		0.10	0.053	mg/L			03/12/23 10:30	1
Chloride	3700		10	7.1	mg/L			03/12/23 10:49	10
Fluoride	0.11	J	0.20	0.026	mg/L			03/12/23 10:30	1
Sulfate	810		1.0	0.76	mg/L			03/12/23 10:30	1

Method: SW846 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		03/27/23 11:30	04/25/23 21:09	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/27/23 11:30	04/25/23 21:09	1
Arsenic	0.22		0.0010	0.00028	mg/L		03/27/23 11:30	04/25/23 21:09	1
Barium	0.046		0.010	0.0031	mg/L		03/27/23 11:30	04/25/23 21:09	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/27/23 11:30	04/25/23 21:09	1
Boron	11		0.80	0.60	mg/L		03/27/23 11:30	04/26/23 22:53	10
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/27/23 11:30	04/25/23 21:09	1
Calcium	370		0.50	0.13	mg/L		03/27/23 11:30	04/25/23 21:09	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/27/23 11:30	04/25/23 21:09	1
Cobalt	0.0025		0.0025	0.00026	mg/L		03/27/23 11:30	04/25/23 21:09	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/27/23 11:30	04/25/23 21:09	1
Lithium	0.054	B	0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 21:09	1
Molybdenum	0.58		0.015	0.00061	mg/L		03/27/23 11:30	04/25/23 21:09	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/27/23 11:30	04/25/23 21:09	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/27/23 11:30	04/25/23 21:09	1
Iron	220	B	0.050	0.028	mg/L		03/27/23 11:30	04/25/23 21:09	1
Potassium	17		0.50	0.16	mg/L		03/27/23 11:30	04/25/23 21:09	1
Magnesium	130		0.50	0.050	mg/L		03/27/23 11:30	04/25/23 21:09	1
Manganese	4.8		0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 21:09	1
Sodium	1900	B	5.0	1.8	mg/L		03/27/23 11:30	04/26/23 22:53	10
Silicon	16		5.0	0.62	mg/L		03/27/23 11:30	04/26/23 22:53	10
Strontium	3.4		0.0050	0.0017	mg/L		03/27/23 11:30	04/25/23 21:09	1
SiO2, Silica	34		11	1.5	mg/L		03/27/23 11:30	04/26/23 22:53	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/22/23 07:40	03/22/23 16:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	3.2	^+	1.0	0.51	mg/L			04/01/23 06:53	1
Nitrate Nitrite as N (EPA 353.2)	0.14		0.10	0.065	mg/L			03/16/23 12:12	1
Total Dissolved Solids (SM 2540C)	7500		100	100	mg/L			03/15/23 19:31	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	44		5.0	5.0	mg/L			03/14/23 20:30	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	44		5.0	5.0	mg/L			03/14/23 20:30	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/14/23 20:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.04				SU			03/09/23 10:24	1

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Client Sample Results

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

Job ID: 180-153376-1

Client Sample ID: FB-01

Lab Sample ID: 180-153376-9

Date Collected: 03/09/23 09:07

Matrix: Water

Date Received: 03/10/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.053	H	0.10	0.053	mg/L			04/10/23 13:42	1
Chloride	<0.71		1.0	0.71	mg/L			03/12/23 11:07	1
Fluoride	0.026	J	0.20	0.026	mg/L			03/12/23 11:07	1
Sulfate	<0.76	H	1.0	0.76	mg/L			04/10/23 13:42	1

Method: SW846 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		03/27/23 11:30	04/25/23 21:27	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/27/23 11:30	04/25/23 21:27	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/27/23 11:30	04/25/23 21:27	1
Barium	<0.0031		0.010	0.0031	mg/L		03/27/23 11:30	04/25/23 21:27	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/27/23 11:30	04/25/23 21:27	1
Boron	<0.060		0.080	0.060	mg/L		03/27/23 11:30	04/25/23 21:27	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/27/23 11:30	04/25/23 21:27	1
Calcium	<0.13		0.50	0.13	mg/L		03/27/23 11:30	04/25/23 21:27	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/27/23 11:30	04/25/23 21:27	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/27/23 11:30	04/25/23 21:27	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/27/23 11:30	04/25/23 21:27	1
Lithium	0.0032	J B	0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 21:27	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/27/23 11:30	04/25/23 21:27	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/27/23 11:30	04/25/23 21:27	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/27/23 11:30	04/25/23 21:27	1
Iron	<0.028		0.050	0.028	mg/L		03/27/23 11:30	04/25/23 21:27	1
Potassium	<0.16		0.50	0.16	mg/L		03/27/23 11:30	04/25/23 21:27	1
Magnesium	<0.050		0.50	0.050	mg/L		03/27/23 11:30	04/25/23 21:27	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 21:27	1
Sodium	0.89	B	0.50	0.18	mg/L		03/27/23 11:30	04/25/23 21:27	1
Silicon	0.079	J	0.50	0.062	mg/L		03/27/23 11:30	04/25/23 21:27	1
Strontium	<0.0017		0.0050	0.0017	mg/L		03/27/23 11:30	04/25/23 21:27	1
SiO2, Silica	0.17	J	1.1	0.15	mg/L		03/27/23 11:30	04/25/23 21:27	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/22/23 07:40	03/22/23 16:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	<0.51	^+	1.0	0.51	mg/L			04/01/23 08:48	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/16/23 12:14	1
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			03/15/23 19:31	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/14/23 20:36	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/14/23 20:36	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/14/23 20:36	1

Client Sample Results

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

Job ID: 180-153376-1

Client Sample ID: EB-01

Lab Sample ID: 180-153376-10

Date Collected: 03/09/23 09:17

Matrix: Water

Date Received: 03/10/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.053	H	0.10	0.053	mg/L			04/10/23 13:56	1
Chloride	<0.71		1.0	0.71	mg/L			03/12/23 11:26	1
Fluoride	<0.026		0.20	0.026	mg/L			03/12/23 11:26	1
Sulfate	<0.76	H	1.0	0.76	mg/L			04/10/23 13:56	1

Method: SW846 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		03/27/23 11:30	04/25/23 21:30	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/27/23 11:30	04/25/23 21:30	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/27/23 11:30	04/25/23 21:30	1
Barium	<0.0031		0.010	0.0031	mg/L		03/27/23 11:30	04/25/23 21:30	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/27/23 11:30	04/25/23 21:30	1
Boron	<0.060		0.080	0.060	mg/L		03/27/23 11:30	04/25/23 21:30	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/27/23 11:30	04/25/23 21:30	1
Calcium	<0.13		0.50	0.13	mg/L		03/27/23 11:30	04/25/23 21:30	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/27/23 11:30	04/25/23 21:30	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/27/23 11:30	04/25/23 21:30	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/27/23 11:30	04/25/23 21:30	1
Lithium	0.0028	J B	0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 21:30	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/27/23 11:30	04/25/23 21:30	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/27/23 11:30	04/25/23 21:30	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/27/23 11:30	04/25/23 21:30	1
Iron	<0.028		0.050	0.028	mg/L		03/27/23 11:30	04/25/23 21:30	1
Potassium	<0.16		0.50	0.16	mg/L		03/27/23 11:30	04/25/23 21:30	1
Magnesium	<0.050		0.50	0.050	mg/L		03/27/23 11:30	04/25/23 21:30	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 21:30	1
Sodium	1.0	B	0.50	0.18	mg/L		03/27/23 11:30	04/25/23 21:30	1
Silicon	0.079	J	0.50	0.062	mg/L		03/27/23 11:30	04/25/23 21:30	1
Strontium	<0.0017		0.0050	0.0017	mg/L		03/27/23 11:30	04/25/23 21:30	1
SiO2, Silica	0.17	J	1.1	0.15	mg/L		03/27/23 11:30	04/25/23 21:30	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/22/23 07:40	03/22/23 16:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	<0.51		1.0	0.51	mg/L			04/05/23 19:24	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/16/23 12:15	1
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			03/15/23 19:31	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/14/23 21:04	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/14/23 21:04	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/14/23 21:04	1

Client Sample Results

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

Job ID: 180-153376-1

Client Sample ID: APMW-5D

Lab Sample ID: 180-153376-11

Date Collected: 03/09/23 07:21

Matrix: Water

Date Received: 03/10/23 09:28

Method: EPA 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			03/12/23 11:44	1
Chloride	7.4		1.0	0.71	mg/L			03/12/23 11:44	1
Fluoride	0.077	J	0.20	0.026	mg/L			03/12/23 11:44	1
Sulfate	6.3		1.0	0.76	mg/L			03/12/23 11:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.21		0.030	0.016	mg/L		03/27/23 11:30	04/25/23 21:34	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/27/23 11:30	04/25/23 21:34	1
Arsenic	0.016		0.0010	0.00028	mg/L		03/27/23 11:30	04/25/23 21:34	1
Barium	0.043		0.010	0.0031	mg/L		03/27/23 11:30	04/25/23 21:34	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/27/23 11:30	04/25/23 21:34	1
Boron	0.083		0.080	0.060	mg/L		03/27/23 11:30	04/25/23 21:34	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/27/23 11:30	04/25/23 21:34	1
Calcium	1.1		0.50	0.13	mg/L		03/27/23 11:30	04/25/23 21:34	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/27/23 11:30	04/25/23 21:34	1
Cobalt	0.00034	J	0.0025	0.00026	mg/L		03/27/23 11:30	04/25/23 21:34	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/27/23 11:30	04/25/23 21:34	1
Lithium	0.0085	B	0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 21:34	1
Molybdenum	0.00085	J	0.015	0.00061	mg/L		03/27/23 11:30	04/25/23 21:34	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/27/23 11:30	04/25/23 21:34	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/27/23 11:30	04/25/23 21:34	1
Iron	1.1	B	0.050	0.028	mg/L		03/27/23 11:30	04/25/23 21:34	1
Potassium	3.1		0.50	0.16	mg/L		03/27/23 11:30	04/25/23 21:34	1
Magnesium	0.65		0.50	0.050	mg/L		03/27/23 11:30	04/25/23 21:34	1
Manganese	0.033		0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 21:34	1
Sodium	35	B	0.50	0.18	mg/L		03/27/23 11:30	04/25/23 21:34	1
Silicon	1.9		0.50	0.062	mg/L		03/27/23 11:30	04/26/23 23:02	1
Strontium	0.018		0.0050	0.0017	mg/L		03/27/23 11:30	04/25/23 21:34	1
SiO2, Silica	4.1		1.1	0.15	mg/L		03/27/23 11:30	04/26/23 23:02	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/22/23 07:40	03/22/23 16:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	0.52	J	1.0	0.51	mg/L			04/05/23 19:48	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/16/23 12:17	1
Total Dissolved Solids (SM 2540C)	150		10	10	mg/L			03/15/23 19:31	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	78		5.0	5.0	mg/L			03/14/23 21:09	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	78		5.0	5.0	mg/L			03/14/23 21:09	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/14/23 21:09	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.53				SU			03/09/23 07:21	1

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QC Sample Results

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

Job ID: 180-153376-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-428866/31
Matrix: Water
Analysis Batch: 428866

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromide	<0.053		0.10	0.053	mg/L			03/11/23 18:44	1
Chloride	<0.71		1.0	0.71	mg/L			03/11/23 18:44	1
Fluoride	<0.026		0.20	0.026	mg/L			03/11/23 18:44	1
Sulfate	<0.76		1.0	0.76	mg/L			03/11/23 18:44	1

Lab Sample ID: MB 180-428866/72
Matrix: Water
Analysis Batch: 428866

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromide	<0.053		0.10	0.053	mg/L			03/12/23 08:21	1
Chloride	<0.71		1.0	0.71	mg/L			03/12/23 08:21	1
Fluoride	<0.026		0.20	0.026	mg/L			03/12/23 08:21	1
Sulfate	<0.76		1.0	0.76	mg/L			03/12/23 08:21	1

Lab Sample ID: LCS 180-428866/32
Matrix: Water
Analysis Batch: 428866

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

Analyte	Spike Added	LCS Result	LCS	Unit	D	%Rec	%Rec Limits
			Qualifier				
Bromide	10.0	9.87		mg/L		99	90 - 110
Chloride	50.0	49.3		mg/L		99	90 - 110
Fluoride	2.50	2.75		mg/L		110	90 - 110
Sulfate	50.0	51.4		mg/L		103	90 - 110

Lab Sample ID: LCS 180-428866/73
Matrix: Water
Analysis Batch: 428866

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

Analyte	Spike Added	LCS Result	LCS	Unit	D	%Rec	%Rec Limits
			Qualifier				
Bromide	10.0	10.6		mg/L		106	90 - 110
Chloride	50.0	50.3		mg/L		101	90 - 110
Fluoride	2.50	2.52		mg/L		101	90 - 110
Sulfate	50.0	50.1		mg/L		100	90 - 110

Lab Sample ID: 180-153376-2 MS
Matrix: Water
Analysis Batch: 428866

Client Sample ID: APMW-6D
Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Bromide	<0.053		10.0	10.3		mg/L		103	90 - 110
Chloride	20		50.0	68.4		mg/L		97	90 - 110
Fluoride	0.080	J	2.50	2.68		mg/L		104	90 - 110
Sulfate	19		50.0	68.4		mg/L		100	90 - 110

QC Sample Results

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

Job ID: 180-153376-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-153376-2 MSD
Matrix: Water
Analysis Batch: 428866

Client Sample ID: APMW-6D
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Bromide	<0.053		10.0	10.3		mg/L		103	90 - 110	0	20
Chloride	20		50.0	68.7		mg/L		98	90 - 110	0	20
Fluoride	0.080	J	2.50	2.67		mg/L		104	90 - 110	0	20
Sulfate	19		50.0	68.2		mg/L		99	90 - 110	0	20

Lab Sample ID: MB 180-431807/6
Matrix: Water
Analysis Batch: 431807

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromide	<0.053		0.10	0.053	mg/L		04/10/23 11:20	04/10/23 11:20	1
Chloride	<0.71		1.0	0.71	mg/L		04/10/23 11:20	04/10/23 11:20	1
Fluoride	<0.026		0.20	0.026	mg/L		04/10/23 11:20	04/10/23 11:20	1
Sulfate	<0.76		1.0	0.76	mg/L		04/10/23 11:20	04/10/23 11:20	1

Lab Sample ID: LCS 180-431807/7
Matrix: Water
Analysis Batch: 431807

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Bromide	10.0	9.88		mg/L		99	90 - 110
Chloride	50.0	49.5		mg/L		99	90 - 110
Fluoride	2.50	2.64		mg/L		106	90 - 110
Sulfate	50.0	49.7		mg/L		99	90 - 110

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

Lab Sample ID: MB 180-430460/1-A
Matrix: Water
Analysis Batch: 433426

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 430460

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	<0.016		0.030	0.016	mg/L		03/27/23 11:30	04/25/23 19:45	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/27/23 11:30	04/25/23 19:45	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/27/23 11:30	04/25/23 19:45	1
Barium	<0.0031		0.010	0.0031	mg/L		03/27/23 11:30	04/25/23 19:45	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/27/23 11:30	04/25/23 19:45	1
Boron	<0.060		0.080	0.060	mg/L		03/27/23 11:30	04/25/23 19:45	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/27/23 11:30	04/25/23 19:45	1
Calcium	<0.13		0.50	0.13	mg/L		03/27/23 11:30	04/25/23 19:45	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/27/23 11:30	04/25/23 19:45	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/27/23 11:30	04/25/23 19:45	1
Lead	0.000516	J	0.0010	0.00038	mg/L		03/27/23 11:30	04/25/23 19:45	1
Lithium	0.00139	J	0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 19:45	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/27/23 11:30	04/25/23 19:45	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/27/23 11:30	04/25/23 19:45	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/27/23 11:30	04/25/23 19:45	1
Iron	0.0368	J	0.050	0.028	mg/L		03/27/23 11:30	04/25/23 19:45	1
Potassium	<0.16		0.50	0.16	mg/L		03/27/23 11:30	04/25/23 19:45	1

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QC Sample Results

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

Job ID: 180-153376-1

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

Lab Sample ID: MB 180-430460/1-A
Matrix: Water
Analysis Batch: 433426

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 430460

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Magnesium	<0.050		0.50	0.050	mg/L		03/27/23 11:30	04/25/23 19:45	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/27/23 11:30	04/25/23 19:45	1
Sodium	0.348	J	0.50	0.18	mg/L		03/27/23 11:30	04/25/23 19:45	1
Strontium	<0.0017		0.0050	0.0017	mg/L		03/27/23 11:30	04/25/23 19:45	1

Lab Sample ID: MB 180-430460/1-A
Matrix: Water
Analysis Batch: 433538

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 430460

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.060		0.080	0.060	mg/L		03/27/23 11:30	04/26/23 22:20	1
Silicon	<0.062		0.50	0.062	mg/L		03/27/23 11:30	04/26/23 22:20	1
SiO2, Silica	<0.15		1.1	0.15	mg/L		03/27/23 11:30	04/26/23 22:20	1

Lab Sample ID: LCS 180-430460/2-A
Matrix: Water
Analysis Batch: 433426

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 430460

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.269		mg/L		108	80 - 120
Arsenic	1.00	0.865		mg/L		87	80 - 120
Barium	1.00	1.04		mg/L		104	80 - 120
Beryllium	0.500	0.579	^+	mg/L		116	80 - 120
Boron	1.25	1.05		mg/L		84	80 - 120
Cadmium	0.500	0.515		mg/L		103	80 - 120
Calcium	25.0	26.7		mg/L		107	80 - 120
Chromium	0.500	0.511		mg/L		102	80 - 120
Cobalt	0.500	0.524		mg/L		105	80 - 120
Lead	0.500	0.517		mg/L		103	80 - 120
Lithium	0.500	0.493		mg/L		99	80 - 120
Molybdenum	0.500	0.488		mg/L		98	80 - 120
Selenium	1.00	1.13		mg/L		113	80 - 120
Thallium	1.00	0.971		mg/L		97	80 - 120
Iron	5.00	4.72		mg/L		94	80 - 120
Potassium	25.0	22.9		mg/L		92	80 - 120
Magnesium	25.0	24.8		mg/L		99	80 - 120
Manganese	0.500	0.501		mg/L		100	80 - 120
Sodium	25.0	25.9		mg/L		104	80 - 120
Strontium	0.500	0.429		mg/L		86	80 - 120

Lab Sample ID: LCS 180-430460/2-A
Matrix: Water
Analysis Batch: 433538

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 430460

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silicon	1.00	0.883		mg/L		88	80 - 120
SiO2, Silica	2.14	1.89		mg/L		88	80 - 120

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QC Sample Results

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

Job ID: 180-153376-1

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-429984/1-A
Matrix: Water
Analysis Batch: 430125

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 429984

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/22/23 07:39	03/22/23 15:53	1

Lab Sample ID: LCS 180-429984/2-A
Matrix: Water
Analysis Batch: 430125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 429984

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00232		mg/L		93	80 - 120

Method: 5310 C-2014 - Total Organic Carbon/Persulfate - Ultrav

Lab Sample ID: MB 180-430212/35
Matrix: Water
Analysis Batch: 430212

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 - Quad	<0.51		1.0	0.51	mg/L			03/22/23 04:21	1

Lab Sample ID: MB 180-430212/67
Matrix: Water
Analysis Batch: 430212

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 - Quad	<0.51		1.0	0.51	mg/L			03/22/23 17:36	1

Lab Sample ID: LCS 180-430212/66
Matrix: Water
Analysis Batch: 430212

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 - Quad	20.0	19.0		mg/L		95	85 - 115

Lab Sample ID: 180-153376-6 MS
Matrix: Water
Analysis Batch: 430212

Client Sample ID: DUP-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon - Quad	0.66	J	10.0	10.1		mg/L		94	85 - 115

Lab Sample ID: 180-153376-7 DU
Matrix: Water
Analysis Batch: 430212

Client Sample ID: APMW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon - Quad	9.7		9.80		mg/L		0.5	15

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QC Sample Results

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

Job ID: 180-153376-1

Method: 5310 C-2014 - Total Organic Carbon/Persulfate - Ultrav (Continued)

Lab Sample ID: MB 180-431142/5
Matrix: Water
Analysis Batch: 431142

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 - Quad	<0.51	^+	1.0	0.51	mg/L			04/01/23 00:27	1

Lab Sample ID: LCS 180-431142/4
Matrix: Water
Analysis Batch: 431142

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 - Quad	20.0	20.6	^+	mg/L		103	85 - 115

Lab Sample ID: MB 180-431710/5
Matrix: Water
Analysis Batch: 431710

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 - Quad	<0.51		1.0	0.51	mg/L			04/05/23 16:59	1

Lab Sample ID: LCS 180-431710/4
Matrix: Water
Analysis Batch: 431710

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 - Quad	20.0	19.9		mg/L		100	85 - 115

Method: EPA 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 180-429465/21
Matrix: Water
Analysis Batch: 429465

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			03/16/23 10:13	1

Lab Sample ID: MB 180-429465/56
Matrix: Water
Analysis Batch: 429465

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			03/16/23 11:09	1

Lab Sample ID: MB 180-429465/88
Matrix: Water
Analysis Batch: 429465

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			03/16/23 11:59	1

QC Sample Results

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

Job ID: 180-153376-1

Method: EPA 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 180-429465/52
Matrix: Water
Analysis Batch: 429465

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	2.18		mg/L		109	90 - 110

Lab Sample ID: LCS 180-429465/87
Matrix: Water
Analysis Batch: 429465

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	2.13		mg/L		106	90 - 110

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

Lab Sample ID: MB 180-429335/1
Matrix: Water
Analysis Batch: 429335

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			03/15/23 18:44	1

Lab Sample ID: LCS 180-429335/2
Matrix: Water
Analysis Batch: 429335

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	665	662		mg/L		100	85 - 115

Lab Sample ID: MB 180-429336/1
Matrix: Water
Analysis Batch: 429336

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			03/15/23 19:31	1

Lab Sample ID: LCS 180-429336/2
Matrix: Water
Analysis Batch: 429336

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	665	644		mg/L		97	85 - 115

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-429212/29
Matrix: Water
Analysis Batch: 429212

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			03/14/23 16:19	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/14/23 16:19	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/14/23 16:19	1

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QC Sample Results

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

Job ID: 180-153376-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: MB 180-429212/53
Matrix: Water
Analysis Batch: 429212

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/14/23 18:45	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/14/23 18:45	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/14/23 18:45	1

Lab Sample ID: MB 180-429212/77
Matrix: Water
Analysis Batch: 429212

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/14/23 21:00	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/14/23 21:00	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/14/23 21:00	1

Lab Sample ID: LCS 180-429212/52
Matrix: Water
Analysis Batch: 429212

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: LCS 180-429212/76
Matrix: Water
Analysis Batch: 429212

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: LLCS 180-429212/51
Matrix: Water
Analysis Batch: 429212

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: LLCS 180-429212/75
Matrix: Water
Analysis Batch: 429212

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits

QC Sample Results

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

Job ID: 180-153376-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: 180-153376-1 DU
Matrix: Water
Analysis Batch: 429212

Client Sample ID: APMW-8
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Alkalinity as CaCO3 to pH 4.5	400		392		mg/L		0.8	20
Bicarbonate Alkalinity as CaCO3	400		392		mg/L		0.8	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

Lab Sample ID: 180-153376-10 DU
Matrix: Water
Analysis Batch: 429212

Client Sample ID: EB-01
Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
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



QC Association Summary

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

Job ID: 180-153376-1

HPLC/IC

Analysis Batch: 428866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-1	APMW-8	Total/NA	Water	300.0	
180-153376-1	APMW-8	Total/NA	Water	300.0	
180-153376-2	APMW-6D	Total/NA	Water	300.0	
180-153376-3	PZ-4	Total/NA	Water	300.0	
180-153376-3	PZ-4	Total/NA	Water	300.0	
180-153376-4	APMW-5	Total/NA	Water	300.0	
180-153376-4	APMW-5	Total/NA	Water	300.0	
180-153376-5	APMW-8D	Total/NA	Water	300.0	
180-153376-6	DUP-03	Total/NA	Water	300.0	
180-153376-7	APMW-7	Total/NA	Water	300.0	
180-153376-7	APMW-7	Total/NA	Water	300.0	
180-153376-8	APMW-6R	Total/NA	Water	300.0	
180-153376-8	APMW-6R	Total/NA	Water	300.0	
180-153376-9	FB-01	Total/NA	Water	300.0	
180-153376-10	EB-01	Total/NA	Water	300.0	
180-153376-11	APMW-5D	Total/NA	Water	300.0	
MB 180-428866/31	Method Blank	Total/NA	Water	300.0	
MB 180-428866/72	Method Blank	Total/NA	Water	300.0	
LCS 180-428866/32	Lab Control Sample	Total/NA	Water	300.0	
LCS 180-428866/73	Lab Control Sample	Total/NA	Water	300.0	
180-153376-2 MS	APMW-6D	Total/NA	Water	300.0	
180-153376-2 MSD	APMW-6D	Total/NA	Water	300.0	

Analysis Batch: 431807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-9	FB-01	Total/NA	Water	300.0	
180-153376-10	EB-01	Total/NA	Water	300.0	
MB 180-431807/6	Method Blank	Total/NA	Water	300.0	
LCS 180-431807/7	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 429984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-1	APMW-8	Total/NA	Water	7470A	
180-153376-2	APMW-6D	Total/NA	Water	7470A	
180-153376-3	PZ-4	Total/NA	Water	7470A	
180-153376-4	APMW-5	Total/NA	Water	7470A	
180-153376-5	APMW-8D	Total/NA	Water	7470A	
180-153376-6	DUP-03	Total/NA	Water	7470A	
180-153376-7	APMW-7	Total/NA	Water	7470A	
180-153376-8	APMW-6R	Total/NA	Water	7470A	
180-153376-9	FB-01	Total/NA	Water	7470A	
180-153376-10	EB-01	Total/NA	Water	7470A	
180-153376-11	APMW-5D	Total/NA	Water	7470A	
MB 180-429984/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-429984/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 430125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-1	APMW-8	Total/NA	Water	EPA 7470A	429984

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QC Association Summary

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

Job ID: 180-153376-1

Metals (Continued)

Analysis Batch: 430125 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-2	APMW-6D	Total/NA	Water	EPA 7470A	429984
180-153376-3	PZ-4	Total/NA	Water	EPA 7470A	429984
180-153376-4	APMW-5	Total/NA	Water	EPA 7470A	429984
180-153376-5	APMW-8D	Total/NA	Water	EPA 7470A	429984
180-153376-6	DUP-03	Total/NA	Water	EPA 7470A	429984
180-153376-7	APMW-7	Total/NA	Water	EPA 7470A	429984
180-153376-8	APMW-6R	Total/NA	Water	EPA 7470A	429984
180-153376-9	FB-01	Total/NA	Water	EPA 7470A	429984
180-153376-10	EB-01	Total/NA	Water	EPA 7470A	429984
180-153376-11	APMW-5D	Total/NA	Water	EPA 7470A	429984
MB 180-429984/1-A	Method Blank	Total/NA	Water	EPA 7470A	429984
LCS 180-429984/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	429984

Prep Batch: 430460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-1	APMW-8	Total Recoverable	Water	3005A	
180-153376-2	APMW-6D	Total Recoverable	Water	3005A	
180-153376-3	PZ-4	Total Recoverable	Water	3005A	
180-153376-4	APMW-5	Total Recoverable	Water	3005A	
180-153376-5	APMW-8D	Total Recoverable	Water	3005A	
180-153376-6	DUP-03	Total Recoverable	Water	3005A	
180-153376-7	APMW-7	Total Recoverable	Water	3005A	
180-153376-8	APMW-6R	Total Recoverable	Water	3005A	
180-153376-9	FB-01	Total Recoverable	Water	3005A	
180-153376-10	EB-01	Total Recoverable	Water	3005A	
180-153376-11	APMW-5D	Total Recoverable	Water	3005A	
MB 180-430460/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-430460/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 433426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-1	APMW-8	Total Recoverable	Water	EPA 6020B	430460
180-153376-2	APMW-6D	Total Recoverable	Water	EPA 6020B	430460
180-153376-3	PZ-4	Total Recoverable	Water	EPA 6020B	430460
180-153376-4	APMW-5	Total Recoverable	Water	EPA 6020B	430460
180-153376-5	APMW-8D	Total Recoverable	Water	EPA 6020B	430460
180-153376-6	DUP-03	Total Recoverable	Water	EPA 6020B	430460
180-153376-7	APMW-7	Total Recoverable	Water	EPA 6020B	430460
180-153376-8	APMW-6R	Total Recoverable	Water	EPA 6020B	430460
180-153376-9	FB-01	Total Recoverable	Water	EPA 6020B	430460
180-153376-10	EB-01	Total Recoverable	Water	EPA 6020B	430460
180-153376-11	APMW-5D	Total Recoverable	Water	EPA 6020B	430460
MB 180-430460/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	430460
LCS 180-430460/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	430460

Analysis Batch: 433538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-1	APMW-8	Total Recoverable	Water	EPA 6020B	430460
180-153376-3	PZ-4	Total Recoverable	Water	EPA 6020B	430460
180-153376-4	APMW-5	Total Recoverable	Water	EPA 6020B	430460
180-153376-5	APMW-8D	Total Recoverable	Water	EPA 6020B	430460

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QC Association Summary

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

Job ID: 180-153376-1

Metals (Continued)

Analysis Batch: 433538 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-6	DUP-03	Total Recoverable	Water	EPA 6020B	430460
180-153376-7	APMW-7	Total Recoverable	Water	EPA 6020B	430460
180-153376-8	APMW-6R	Total Recoverable	Water	EPA 6020B	430460
180-153376-11	APMW-5D	Total Recoverable	Water	EPA 6020B	430460
MB 180-430460/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	430460
LCS 180-430460/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	430460

Analysis Batch: 435413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-1	APMW-8	Total Recoverable	Water	EPA 6020B	430460

Analysis Batch: 435527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-2	APMW-6D	Total Recoverable	Water	EPA 6020B	430460

General Chemistry

Analysis Batch: 429212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-1	APMW-8	Total/NA	Water	SM2320 B	
180-153376-2	APMW-6D	Total/NA	Water	SM2320 B	
180-153376-3	PZ-4	Total/NA	Water	SM2320 B	
180-153376-4	APMW-5	Total/NA	Water	SM2320 B	
180-153376-5	APMW-8D	Total/NA	Water	SM2320 B	
180-153376-6	DUP-03	Total/NA	Water	SM2320 B	
180-153376-7	APMW-7	Total/NA	Water	SM2320 B	
180-153376-8	APMW-6R	Total/NA	Water	SM2320 B	
180-153376-9	FB-01	Total/NA	Water	SM2320 B	
180-153376-10	EB-01	Total/NA	Water	SM2320 B	
180-153376-11	APMW-5D	Total/NA	Water	SM2320 B	
MB 180-429212/29	Method Blank	Total/NA	Water	SM2320 B	
MB 180-429212/53	Method Blank	Total/NA	Water	SM2320 B	
MB 180-429212/77	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-429212/52	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-429212/76	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-429212/51	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-429212/75	Lab Control Sample	Total/NA	Water	SM2320 B	
180-153376-1 DU	APMW-8	Total/NA	Water	SM2320 B	
180-153376-10 DU	EB-01	Total/NA	Water	SM2320 B	

Analysis Batch: 429335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-1	APMW-8	Total/NA	Water	SM 2540C	
MB 180-429335/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-429335/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 429336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-2	APMW-6D	Total/NA	Water	SM 2540C	
180-153376-3	PZ-4	Total/NA	Water	SM 2540C	
180-153376-4	APMW-5	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 180-153376-1

General Chemistry (Continued)

Analysis Batch: 429336 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-5	APMW-8D	Total/NA	Water	SM 2540C	
180-153376-6	DUP-03	Total/NA	Water	SM 2540C	
180-153376-7	APMW-7	Total/NA	Water	SM 2540C	
180-153376-8	APMW-6R	Total/NA	Water	SM 2540C	
180-153376-9	FB-01	Total/NA	Water	SM 2540C	
180-153376-10	EB-01	Total/NA	Water	SM 2540C	
180-153376-11	APMW-5D	Total/NA	Water	SM 2540C	
MB 180-429336/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-429336/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 429465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-1	APMW-8	Total/NA	Water	EPA 353.2	
180-153376-2	APMW-6D	Total/NA	Water	EPA 353.2	
180-153376-3	PZ-4	Total/NA	Water	EPA 353.2	
180-153376-4	APMW-5	Total/NA	Water	EPA 353.2	
180-153376-5	APMW-8D	Total/NA	Water	EPA 353.2	
180-153376-6	DUP-03	Total/NA	Water	EPA 353.2	
180-153376-7	APMW-7	Total/NA	Water	EPA 353.2	
180-153376-8	APMW-6R	Total/NA	Water	EPA 353.2	
180-153376-9	FB-01	Total/NA	Water	EPA 353.2	
180-153376-10	EB-01	Total/NA	Water	EPA 353.2	
180-153376-11	APMW-5D	Total/NA	Water	EPA 353.2	
MB 180-429465/21	Method Blank	Total/NA	Water	EPA 353.2	
MB 180-429465/56	Method Blank	Total/NA	Water	EPA 353.2	
MB 180-429465/88	Method Blank	Total/NA	Water	EPA 353.2	
LCS 180-429465/52	Lab Control Sample	Total/NA	Water	EPA 353.2	
LCS 180-429465/87	Lab Control Sample	Total/NA	Water	EPA 353.2	

Analysis Batch: 430212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-3	PZ-4	Total/NA	Water	5310 C-2014	
180-153376-4	APMW-5	Total/NA	Water	5310 C-2014	
180-153376-5	APMW-8D	Total/NA	Water	5310 C-2014	
180-153376-6	DUP-03	Total/NA	Water	5310 C-2014	
180-153376-7	APMW-7	Total/NA	Water	5310 C-2014	
MB 180-430212/35	Method Blank	Total/NA	Water	5310 C-2014	
MB 180-430212/67	Method Blank	Total/NA	Water	5310 C-2014	
LCS 180-430212/66	Lab Control Sample	Total/NA	Water	5310 C-2014	
180-153376-6 MS	DUP-03	Total/NA	Water	5310 C-2014	
180-153376-7 DU	APMW-7	Total/NA	Water	5310 C-2014	

Analysis Batch: 431142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-1	APMW-8	Total/NA	Water	5310 C-2014	
180-153376-2	APMW-6D	Total/NA	Water	5310 C-2014	
180-153376-8	APMW-6R	Total/NA	Water	5310 C-2014	
180-153376-9	FB-01	Total/NA	Water	5310 C-2014	
MB 180-431142/5	Method Blank	Total/NA	Water	5310 C-2014	
LCS 180-431142/4	Lab Control Sample	Total/NA	Water	5310 C-2014	

QC Association Summary

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

Job ID: 180-153376-1

General Chemistry

Analysis Batch: 431710


Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-10	EB-01	Total/NA	Water	5310 C-2014	
180-153376-11	APMW-5D	Total/NA	Water	5310 C-2014	
MB 180-431710/5	Method Blank	Total/NA	Water	5310 C-2014	
LCS 180-431710/4	Lab Control Sample	Total/NA	Water	5310 C-2014	

Field Service / Mobile Lab

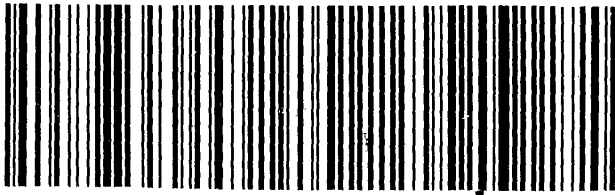
Analysis Batch: 431333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-1	APMW-8	Total/NA	Water	Field Sampling	
180-153376-2	APMW-6D	Total/NA	Water	Field Sampling	
180-153376-3	PZ-4	Total/NA	Water	Field Sampling	
180-153376-4	APMW-5	Total/NA	Water	Field Sampling	
180-153376-5	APMW-8D	Total/NA	Water	Field Sampling	
180-153376-6	DUP-03	Total/NA	Water	Field Sampling	
180-153376-7	APMW-7	Total/NA	Water	Field Sampling	
180-153376-8	APMW-6R	Total/NA	Water	Field Sampling	
180-153376-11	APMW-5D	Total/NA	Water	Field Sampling	

Chain of Custody Record

Client Information Client Contact: RICK HARRIS SCS Contacts: 850-336-0192 Company: SCS		Lab PM: Lab PM Brown, Shail E-Mail: shail.brown@eurofinset.com		Carrier Tracking No(s): Job # 1 of 1	
Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email: 		Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 18020186 SSON#: 		Analysis Requested 2540 Total Dissolved Solids 300 28Day Chloride Fluoride Sulfate Bromide 6020B/740 Custom 23 (App/II/APPV+9) + Mercury + Fe Mg Na Al Mn K Sr Si and Silica 5310C Total Organic Carbon 2320B Alkalinity, Total, Carb, Bicarb 9315 Ra226 Radium 226 9320 Ra228 Radium 228 Combined RAD 2540 Total Suspended Solids	
Sample Identification APNW-8 APNW-6D PZ-4 APNW-5 APNW-8D DUP-03 APNW-7 APNW-6R FB-01 EB-01 APNW-5D		Sample Date 9 MAR 23 9 MAR 23 9 MAR 23 9 MAR 23 9 MAR 23 9 MAR 23 9 MAR 23 9 MAR 23 9 MAR 23 9 MAR 23		Sample Time 1510 1212 1056 0845 1453 1353 1230 1024 0907 0917 0721	
Sample Type (C=Comp, G=grab) G G G G G G G G G G		Matrix (W=water, S=solid, O=oil, T=tissue, A=air) W W W W W W W W W W		Preservation Code: W W W W W W W W W W	
Field Filtered Sample (Yes or No) YES/NO YES/NO YES/NO YES/NO YES/NO YES/NO YES/NO YES/NO YES/NO YES/NO YES/NO		Total Number of Containers 8 8 8 8 8 8 8 8 8 8 8		Special Instructions/Note: 180-153376 Chain of Custody 	
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		Deliverable Requested: I, II, III, IV, Other (specify) Empty Kit Relinquished by:		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	
Relinquished by: Todd Vobers Relinquished by: Dan Viner Relinquished by:		Date/Time: 9 MAR 23 1614 Date/Time:		Date/Time: 3-16-23 9:28 Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Custody Seal No. <input type="checkbox"/>		Relinquished by:		Company: RDH ENV Company:	
Relinquished by:		Date/Time:		Company:	





PA-US
PIT 15238
AHS
FRI - 10 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA
MASTER #
RK# 3955 6571 5310
1 of 3

PA-US
PIT 15238
AHS
FRI - 10 MAR 10:30A
PRIORITY OVERNIGHT

XN AG
Mstr# 3955 6571 53
MPS# 0263
2 of 3

180-153376 Waybill



PT-WI-SR-001 effective 11/8/18
CF 0.1 Initials
Thermometer ID
Uncorrected temp 3.7 °C



PT-WI-SR-001 effective 11/8/18
CF 0.1 Initials
Thermometer ID
Uncorrected temp 3.2 °C

PITTSBURGH PA 15238

PITTSBURGH PA 15238

EUROFINS TEST AMERICA

EUROFINS TEST AMERICA

301 ALPHA DR

301 ALPHA DR

SHIP DATE: 09MAR23
ACTWGT: 62.45 LB
CAD: 6993799/5SFE2401
DIMS: 24x13x14 IN
TESTAMERICA PITTSBURGH LAB
SEE CHEERS & BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 09MAR23
ACTWGT: 62.45 LB
CAD: 6993799/5SFE2401
DIMS: 24x13x14 IN
TESTAMERICA PITTSBURGH LAB
SEE CHEERS & BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

Part # 156287-385-4410E2-EXP-12/23

Part # 156287-385-4410E2-EXP-12/23

Do Not Lift Using This Tag

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



XN AGCA
 Mstr# 3955 6571 5310
 0263
 MPS# 3955 6571 5332
 3 of 3
 FRI - 10 MAR 10:30A
 PRIORITY OVERNIGHT
 AHS
 15238
 PA-US
 PIT

PT-WI-SR-001 effective 1/8/18
 C.P.O. Initials MD
 Thermometer ID 3.9
 Uncorrected temp 18
 DEPT: _____ REF: _____
 (412) 963-7058
PITTSBURGH PA 15238

301 ALPHA DR
TO EUROFINS TEST AMERICA
 ORIGIN ID: B1XA (850) 336-0192
 TESTAMERICA PITTSBURGH LAB
 SEE CHEERS 5 BEFORE BILL
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US
 BILL THIRD PARTY
 SHIP DATE: 09MAR23
 ACTWGT: 62.45 LB
 CAD: 6993799/SSE2401
 DIMS: 24x13x14 IN

Part # 156297468#HIGB#EXP 12/23



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-153376-1

Login Number: 153376

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	





ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/17/2023 4:02:59 PM

JOB DESCRIPTION

Plant Watson Ash Pond

JOB NUMBER

180-153376-2

Eurofins Pittsburgh

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Pittsburgh and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Pittsburgh Project Manager or designee who has signed this report.

PA Lab ID: 02-00416

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

Authorization



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4/17/2023 4:02:59 PM

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



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions/Glossary	5
Certification Summary	6
Sample Summary	7
Method Summary	8
Lab Chronicle	9
Client Sample Results	13
QC Sample Results	24
QC Association Summary	27
Chain of Custody	28
Receipt Checklists	34

Case Narrative

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

Job ID: 180-153376-2

Job ID: 180-153376-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-153376-2

Receipt

The samples were received on 3/10/2023 9:28 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 3.4°C, 3.8°C and 4.0°C

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 prep batch 160-604452: 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-8 (180-153376-1), APMW-6D (180-153376-2), (LCS 160-604452/2-A), (MB 160-604452/1-A), (380-38726-A-3-A) and (380-38726-C-3-A DU)

Method 9315_Ra226: Radium-226 prep batch 160-604592: 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 (180-153376-3), APMW-5 (180-153376-4), APMW-8D (180-153376-5), DUP-03 (180-153376-6), APMW-7 (180-153376-7), APMW-6R (180-153376-8), FB-01 (180-153376-9), EB-01 (180-153376-10), APMW-5D (180-153376-11), (LCS 160-604592/2-A), (MB 160-604592/1-A), (310-251197-E-4-A), (310-251197-E-4-B MS) and (310-251197-E-4-C MSD)

Method 9320_Ra228: Radium-228 batch 604457 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-8 (180-153376-1), APMW-6D (180-153376-2), (LCS 160-604457/2-A), (MB 160-604457/1-A), (380-38726-A-3-B) and (380-38726-C-3-B DU)

Method 9320_Ra228: Radium-228 prep batch 160-604594: 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 (180-153376-3), APMW-5 (180-153376-4), APMW-8D (180-153376-5), DUP-03 (180-153376-6), APMW-7 (180-153376-7), APMW-6R (180-153376-8), FB-01 (180-153376-9), EB-01 (180-153376-10), APMW-5D (180-153376-11), (LCS 160-604594/2-A), (MB 160-604594/1-A), (310-251197-E-4-D), (310-251197-E-4-E MS) and (310-251197-E-4-F MSD)

Method 9320_Ra228: Radium-228 Prep Batch 160-607341 Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-5D (180-153376-11). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9320_Ra228: Radium-228 batch 607341 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 (180-153376-11), (LCS 160-607341/2-A), (LCSD 160-607341/3-A) and (MB 160-607341/1-A)

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

Rad

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

Definitions/Glossary

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

Job ID: 180-153376-2

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: 180-153376-2

Laboratory: Eurofins St. Louis

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

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

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

Sample Summary

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

Job ID: 180-153376-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-153376-1	APMW-8	Water	03/09/23 15:10	03/10/23 09:28
180-153376-2	APMW-6D	Water	03/09/23 12:12	03/10/23 09:28
180-153376-3	PZ-4	Water	03/09/23 10:56	03/10/23 09:28
180-153376-4	APMW-5	Water	03/09/23 08:45	03/10/23 09:28
180-153376-5	APMW-8D	Water	03/09/23 14:53	03/10/23 09:28
180-153376-6	DUP-03	Water	03/09/23 13:53	03/10/23 09:28
180-153376-7	APMW-7	Water	03/09/23 12:30	03/10/23 09:28
180-153376-8	APMW-6R	Water	03/09/23 10:24	03/10/23 09:28
180-153376-9	FB-01	Water	03/09/23 09:07	03/10/23 09:28
180-153376-10	EB-01	Water	03/09/23 09:17	03/10/23 09:28
180-153376-11	APMW-5D	Water	03/09/23 07:21	03/10/23 09:28

- 1
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Method Summary

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

Job ID: 180-153376-2

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

Protocol References:

None = None

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

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

Laboratory References:

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

Lab Chronicle

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

Job ID: 180-153376-2

Client Sample ID: APMW-8

Lab Sample ID: 180-153376-1

Date Collected: 03/09/23 15:10

Matrix: Water

Date Received: 03/10/23 09:28

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			759.84 mL	1.0 g	604452	03/21/23 10:37	BMP	EET SL
Total/NA	Analysis	9315		1			607141	04/12/23 14:54	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			759.84 mL	1.0 g	604457	03/21/23 11:01	BMP	EET SL
Total/NA	Analysis	9320		1			606587	04/07/23 13:13	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			607838	04/17/23 14:06	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-6D

Lab Sample ID: 180-153376-2

Date Collected: 03/09/23 12:12

Matrix: Water

Date Received: 03/10/23 09:28

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			1006.03 mL	1.0 g	604452	03/21/23 10:37	BMP	EET SL
Total/NA	Analysis	9315		1			607020	04/12/23 14:50	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1006.03 mL	1.0 g	604457	03/21/23 11:01	BMP	EET SL
Total/NA	Analysis	9320		1	1.0 mL	1.0 mL	606587	04/07/23 13:13	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			607838	04/17/23 14:15	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: PZ-4

Lab Sample ID: 180-153376-3

Date Collected: 03/09/23 10:56

Matrix: Water

Date Received: 03/10/23 09:28

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	604592	03/22/23 08:58	DJP	EET SL
Total/NA	Analysis	9315		1			607358	04/13/23 08:44	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			748.89 mL	1.0 g	604594	03/22/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			606896	04/11/23 12:21	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			607838	04/17/23 14:15	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-5

Lab Sample ID: 180-153376-4

Date Collected: 03/09/23 08:45

Matrix: Water

Date Received: 03/10/23 09:28

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			990.98 mL	1.0 g	604592	03/22/23 08:58	DJP	EET SL
Total/NA	Analysis	9315		1			607358	04/13/23 08:44	SCB	EET SL
Instrument ID: GFPCBLUE										

Lab Chronicle

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

Job ID: 180-153376-2

Client Sample ID: APMW-5

Lab Sample ID: 180-153376-4

Date Collected: 03/09/23 08:45

Matrix: Water

Date Received: 03/10/23 09:28

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			990.98 mL	1.0 g	604594	03/22/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			606896	04/11/23 12:21	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			607838	04/17/23 14:15	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-8D

Lab Sample ID: 180-153376-5

Date Collected: 03/09/23 14:53

Matrix: Water

Date Received: 03/10/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			995.32 mL	1.0 g	604592	03/22/23 08:58	DJP	EET SL
Total/NA	Analysis	9315		1			607358	04/13/23 08:44	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			995.32 mL	1.0 g	604594	03/22/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			606896	04/11/23 12:21	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			607838	04/17/23 14:15	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-03

Lab Sample ID: 180-153376-6

Date Collected: 03/09/23 13:53

Matrix: Water

Date Received: 03/10/23 09:28

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			1005.31 mL	1.0 g	604592	03/22/23 08:58	DJP	EET SL
Total/NA	Analysis	9315		1			607358	04/13/23 08:44	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1005.31 mL	1.0 g	604594	03/22/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			606896	04/11/23 12:21	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			607838	04/17/23 14:15	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-7

Lab Sample ID: 180-153376-7

Date Collected: 03/09/23 12:30

Matrix: Water

Date Received: 03/10/23 09:28

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			742.79 mL	1.0 g	604592	03/22/23 08:58	DJP	EET SL
Total/NA	Analysis	9315		1			607358	04/13/23 08:45	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			742.79 mL	1.0 g	604594	03/22/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			606896	04/11/23 12:22	SCB	EET SL
Instrument ID: GFPCPURPLE										

Lab Chronicle

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

Job ID: 180-153376-2

Client Sample ID: APMW-7

Lab Sample ID: 180-153376-7

Date Collected: 03/09/23 12:30

Matrix: Water

Date Received: 03/10/23 09:28

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			607838	04/17/23 14:15	MLK	EET SL

Client Sample ID: APMW-6R

Lab Sample ID: 180-153376-8

Date Collected: 03/09/23 10:24

Matrix: Water

Date Received: 03/10/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			993.03 mL	1.0 g	604592	03/22/23 08:58	DJP	EET SL
Total/NA	Analysis	9315		1			607358	04/13/23 08:45	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			993.03 mL	1.0 g	604594	03/22/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			606896	04/11/23 12:22	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			607838	04/17/23 14:15	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-01

Lab Sample ID: 180-153376-9

Date Collected: 03/09/23 09:07

Matrix: Water

Date Received: 03/10/23 09:28

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			992.62 mL	1.0 g	604592	03/22/23 08:58	DJP	EET SL
Total/NA	Analysis	9315		1			607358	04/13/23 08:45	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			992.62 mL	1.0 g	604594	03/22/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			606896	04/11/23 12:22	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			607838	04/17/23 14:15	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-01

Lab Sample ID: 180-153376-10

Date Collected: 03/09/23 09:17

Matrix: Water

Date Received: 03/10/23 09:28

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			1005.93 mL	1.0 g	604592	03/22/23 08:58	DJP	EET SL
Total/NA	Analysis	9315		1			607358	04/13/23 08:45	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1005.93 mL	1.0 g	604594	03/22/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			606896	04/11/23 12:22	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			607838	04/17/23 14:15	MLK	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-153376-2

Client Sample ID: APMW-5D

Lab Sample ID: 180-153376-11

Date Collected: 03/09/23 07:21

Matrix: Water

Date Received: 03/10/23 09:28

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			747.20 mL	1.0 g	604592	03/22/23 08:58	DJP	EET SL
Total/NA	Analysis	9315		1			607357	04/13/23 08:49	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			755.74 mL	1.0 g	607341	04/13/23 12:38	KAC	EET SL
Total/NA	Analysis	9320		1			607834	04/17/23 12:13	FLC	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			607863	04/17/23 16:48	SCB	EET SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: EET SL

Batch Type: Prep

BMP = Bailey Pinette

DJP = Dalton Pieper

KAC = Kevin Cox

Batch Type: Analysis

FLC = Fernando Cruz

MLK = Micha Korrinhizer

SCB = Sarah Bernsen

Client Sample Results

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

Job ID: 180-153376-2

Client Sample ID: APMW-8

Lab Sample ID: 180-153376-1

Date Collected: 03/09/23 15:10

Matrix: Water

Date Received: 03/10/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.12		0.241	0.261	1.00	0.180	pCi/L	03/21/23 10:37	04/12/23 14:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		30 - 110					03/21/23 10:37	04/12/23 14:54	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.16		0.749	0.841	1.00	0.641	pCi/L	03/21/23 11:01	04/07/23 13:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		30 - 110					03/21/23 11:01	04/07/23 13:13	1
Y Carrier	82.6		30 - 110					03/21/23 11:01	04/07/23 13:13	1

Method: TAL-STL 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	5.27		0.787	0.881	5.00	0.641	pCi/L		04/17/23 14:06	1

Client Sample Results

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

Job ID: 180-153376-2

Client Sample ID: APMW-6D

Lab Sample ID: 180-153376-2

Date Collected: 03/09/23 12:12

Matrix: Water

Date Received: 03/10/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.369		0.137	0.141	1.00	0.138	pCi/L	03/21/23 10:37	04/12/23 14:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					03/21/23 10:37	04/12/23 14:50	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.464	U	0.386	0.388	1.00	0.606	pCi/L	03/21/23 11:01	04/07/23 13:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					03/21/23 11:01	04/07/23 13:13	1
Y Carrier	77.4		30 - 110					03/21/23 11:01	04/07/23 13:13	1

Method: TAL-STL 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	0.833		0.410	0.413	5.00	0.606	pCi/L		04/17/23 14:15	1

Client Sample Results

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

Job ID: 180-153376-2

Client Sample ID: PZ-4

Lab Sample ID: 180-153376-3

Date Collected: 03/09/23 10:56

Matrix: Water

Date Received: 03/10/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.451		0.215	0.219	1.00	0.249	pCi/L	03/22/23 08:58	04/13/23 08:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					03/22/23 08:58	04/13/23 08:44	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.835		0.517	0.523	1.00	0.773	pCi/L	03/22/23 09:25	04/11/23 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					03/22/23 09:25	04/11/23 12:21	1
Y Carrier	89.7		30 - 110					03/22/23 09:25	04/11/23 12:21	1

Method: TAL-STL 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	1.29		0.560	0.567	5.00	0.773	pCi/L		04/17/23 14:15	1

Client Sample Results

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

Job ID: 180-153376-2

Client Sample ID: APMW-5

Lab Sample ID: 180-153376-4

Date Collected: 03/09/23 08:45

Matrix: Water

Date Received: 03/10/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.520		0.214	0.219	1.00	0.252	pCi/L	03/22/23 08:58	04/13/23 08:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.1		30 - 110					03/22/23 08:58	04/13/23 08:44	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.06		0.466	0.503	1.00	0.412	pCi/L	03/22/23 09:25	04/11/23 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.1		30 - 110					03/22/23 09:25	04/11/23 12:21	1
Y Carrier	87.5		30 - 110					03/22/23 09:25	04/11/23 12:21	1

Method: TAL-STL 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	2.58		0.513	0.549	5.00	0.412	pCi/L		04/17/23 14:15	1

Client Sample Results

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

Job ID: 180-153376-2

Client Sample ID: APMW-8D

Lab Sample ID: 180-153376-5

Date Collected: 03/09/23 14:53

Matrix: Water

Date Received: 03/10/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.176	U	0.128	0.129	1.00	0.180	pCi/L	03/22/23 08:58	04/13/23 08:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		30 - 110					03/22/23 08:58	04/13/23 08:44	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.176	U	0.289	0.289	1.00	0.493	pCi/L	03/22/23 09:25	04/11/23 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		30 - 110					03/22/23 09:25	04/11/23 12:21	1
Y Carrier	87.5		30 - 110					03/22/23 09:25	04/11/23 12:21	1

Method: TAL-STL 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	0.353	U	0.316	0.316	5.00	0.493	pCi/L		04/17/23 14:15	1

Client Sample Results

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

Job ID: 180-153376-2

Client Sample ID: DUP-03

Lab Sample ID: 180-153376-6

Date Collected: 03/09/23 13:53

Matrix: Water

Date Received: 03/10/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0571	U	0.109	0.109	1.00	0.195	pCi/L	03/22/23 08:58	04/13/23 08:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		30 - 110					03/22/23 08:58	04/13/23 08:44	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.000	U	0.220	0.220	1.00	0.420	pCi/L	03/22/23 09:25	04/11/23 12:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		30 - 110					03/22/23 09:25	04/11/23 12:21	1
Y Carrier	92.7		30 - 110					03/22/23 09:25	04/11/23 12:21	1

Method: TAL-STL 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	0.0571	U	0.246	0.246	5.00	0.420	pCi/L		04/17/23 14:15	1

Client Sample Results

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

Job ID: 180-153376-2

Client Sample ID: APMW-7

Lab Sample ID: 180-153376-7

Date Collected: 03/09/23 12:30

Matrix: Water

Date Received: 03/10/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.00		0.381	0.421	1.00	0.221	pCi/L	03/22/23 08:58	04/13/23 08:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					03/22/23 08:58	04/13/23 08:45	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.77		0.632	0.681	1.00	0.635	pCi/L	03/22/23 09:25	04/11/23 12:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					03/22/23 09:25	04/11/23 12:22	1
Y Carrier	90.1		30 - 110					03/22/23 09:25	04/11/23 12:22	1

Method: TAL-STL 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	4.77		0.738	0.801	5.00	0.635	pCi/L		04/17/23 14:15	1

Client Sample Results

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

Job ID: 180-153376-2

Client Sample ID: APMW-6R

Lab Sample ID: 180-153376-8

Date Collected: 03/09/23 10:24

Matrix: Water

Date Received: 03/10/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.375		0.173	0.177	1.00	0.206	pCi/L	03/22/23 08:58	04/13/23 08:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		30 - 110					03/22/23 08:58	04/13/23 08:45	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.00		0.510	0.542	1.00	0.566	pCi/L	03/22/23 09:25	04/11/23 12:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		30 - 110					03/22/23 09:25	04/11/23 12:22	1
Y Carrier	87.5		30 - 110					03/22/23 09:25	04/11/23 12:22	1

Method: TAL-STL 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	2.37		0.539	0.570	5.00	0.566	pCi/L		04/17/23 14:15	1

Client Sample Results

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

Job ID: 180-153376-2

Client Sample ID: FB-01

Lab Sample ID: 180-153376-9

Date Collected: 03/09/23 09:07

Matrix: Water

Date Received: 03/10/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0369	U	0.131	0.131	1.00	0.240	pCi/L	03/22/23 08:58	04/13/23 08:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		30 - 110					03/22/23 08:58	04/13/23 08:45	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.123	U	0.226	0.226	1.00	0.455	pCi/L	03/22/23 09:25	04/11/23 12:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		30 - 110					03/22/23 09:25	04/11/23 12:22	1
Y Carrier	91.6		30 - 110					03/22/23 09:25	04/11/23 12:22	1

Method: TAL-STL 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	-0.0858	U	0.261	0.261	5.00	0.455	pCi/L		04/17/23 14:15	1

Client Sample Results

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

Job ID: 180-153376-2

Client Sample ID: EB-01

Lab Sample ID: 180-153376-10

Date Collected: 03/09/23 09:17

Matrix: Water

Date Received: 03/10/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0829	U	0.144	0.144	1.00	0.250	pCi/L	03/22/23 08:58	04/13/23 08:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		30 - 110					03/22/23 08:58	04/13/23 08:45	1

Method: SW846 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	0.173	0.173	1.00	0.386	pCi/L	03/22/23 09:25	04/11/23 12:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		30 - 110					03/22/23 09:25	04/11/23 12:22	1
Y Carrier	90.1		30 - 110					03/22/23 09:25	04/11/23 12:22	1

Method: TAL-STL 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	-0.0489	U	0.225	0.225	5.00	0.386	pCi/L		04/17/23 14:15	1

Client Sample Results

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

Job ID: 180-153376-2

Client Sample ID: APMW-5D

Lab Sample ID: 180-153376-11

Date Collected: 03/09/23 07:21

Matrix: Water

Date Received: 03/10/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0211	U	0.134	0.134	1.00	0.282	pCi/L	03/22/23 08:58	04/13/23 08:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		30 - 110					03/22/23 08:58	04/13/23 08:49	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.113	U	0.381	0.381	1.00	0.747	pCi/L	04/13/23 12:38	04/17/23 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		30 - 110					04/13/23 12:38	04/17/23 12:13	1
Y Carrier	81.9		30 - 110					04/13/23 12:38	04/17/23 12:13	1

Method: TAL-STL 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	-0.134	U	0.404	0.404	5.00	0.747	pCi/L		04/17/23 16:48	1

QC Sample Results

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

Job ID: 180-153376-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-604452/1-A
Matrix: Water
Analysis Batch: 607020

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604452

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert.	Uncert.						
Radium-226	-0.002589	U	0.0601	0.0601	1.00	0.126	pCi/L	03/21/23 10:37	04/12/23 14:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		30 - 110					03/21/23 10:37	04/12/23 14:49	1

Lab Sample ID: LCS 160-604452/2-A
Matrix: Water
Analysis Batch: 607020

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604452

Analyte	LCS		Spike	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Uncert.					
Radium-226			11.3	9.317	1.02	1.00	0.145	pCi/L	82	75 - 125
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	98.7		30 - 110							

Lab Sample ID: MB 160-604592/1-A
Matrix: Water
Analysis Batch: 607358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604592

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert.	Uncert.						
Radium-226	-0.01963	U	0.0733	0.0734	1.00	0.171	pCi/L	03/22/23 08:58	04/13/23 08:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		30 - 110					03/22/23 08:58	04/13/23 08:44	1

Lab Sample ID: LCS 160-604592/2-A
Matrix: Water
Analysis Batch: 607358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604592

Analyte	LCS		Spike	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Uncert.					
Radium-226			11.3	10.84	1.23	1.00	0.176	pCi/L	96	75 - 125
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	97.7		30 - 110							

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-604457/1-A
Matrix: Water
Analysis Batch: 606563

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604457

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert.	Uncert.						
Radium-228	0.3286	U	0.306	0.308	1.00	0.488	pCi/L	03/21/23 11:01	04/07/23 13:04	1

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QC Sample Results

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

Job ID: 180-153376-2

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

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		30 - 110	03/21/23 11:01	04/07/23 13:04	1
Y Carrier	85.6		30 - 110	03/21/23 11:01	04/07/23 13:04	1

Lab Sample ID: LCS 160-604457/2-A
Matrix: Water
Analysis Batch: 606563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604457

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.05	8.587		1.17	1.00	0.452	pCi/L	107	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	98.7		30 - 110
Y Carrier	83.7		30 - 110

Lab Sample ID: MB 160-604594/1-A
Matrix: Water
Analysis Batch: 606896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604594

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2702	U	0.293	0.294	1.00	0.476	pCi/L	03/22/23 09:25	04/11/23 12:19	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		30 - 110	03/22/23 09:25	04/11/23 12:19	1
Y Carrier	86.0		30 - 110	03/22/23 09:25	04/11/23 12:19	1

Lab Sample ID: LCS 160-604594/2-A
Matrix: Water
Analysis Batch: 606896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604594

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.04	7.282		1.03	1.00	0.446	pCi/L	91	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	97.7		30 - 110
Y Carrier	95.0		30 - 110

Lab Sample ID: MB 160-607341/1-A
Matrix: Water
Analysis Batch: 607834

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 607341

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2290	U	0.333	0.334	1.00	0.562	pCi/L	04/13/23 12:38	04/17/23 12:12	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		30 - 110	04/13/23 12:38	04/17/23 12:12	1
Y Carrier	84.9		30 - 110	04/13/23 12:38	04/17/23 12:12	1

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QC Sample Results

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

Job ID: 180-153376-2

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

Lab Sample ID: LCS 160-607341/2-A
Matrix: Water
Analysis Batch: 607834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 607341

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
										RER	Limit
Radium-228	8.03	9.158		1.28	1.00	0.606	pCi/L	114	75 - 125		
LCS LCS											
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	94.4		30 - 110								
Y Carrier	80.4		30 - 110								

Lab Sample ID: LCSD 160-607341/3-A
Matrix: Water
Analysis Batch: 607834

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 607341

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER	Limit
Radium-228	8.03	7.108		1.06	1.00	0.458	pCi/L	89	75 - 125	0.88	1	
LCSD LCSD												
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	93.4		30 - 110									
Y Carrier	80.4		30 - 110									

QC Association Summary

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

Job ID: 180-153376-2

Rad

Prep Batch: 604452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-1	APMW-8	Total/NA	Water	PrecSep-21	
180-153376-2	APMW-6D	Total/NA	Water	PrecSep-21	
MB 160-604452/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-604452/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 604457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-1	APMW-8	Total/NA	Water	PrecSep_0	
180-153376-2	APMW-6D	Total/NA	Water	PrecSep_0	
MB 160-604457/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-604457/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 604592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-3	PZ-4	Total/NA	Water	PrecSep-21	
180-153376-4	APMW-5	Total/NA	Water	PrecSep-21	
180-153376-5	APMW-8D	Total/NA	Water	PrecSep-21	
180-153376-6	DUP-03	Total/NA	Water	PrecSep-21	
180-153376-7	APMW-7	Total/NA	Water	PrecSep-21	
180-153376-8	APMW-6R	Total/NA	Water	PrecSep-21	
180-153376-9	FB-01	Total/NA	Water	PrecSep-21	
180-153376-10	EB-01	Total/NA	Water	PrecSep-21	
180-153376-11	APMW-5D	Total/NA	Water	PrecSep-21	
MB 160-604592/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-604592/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 604594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-3	PZ-4	Total/NA	Water	PrecSep_0	
180-153376-4	APMW-5	Total/NA	Water	PrecSep_0	
180-153376-5	APMW-8D	Total/NA	Water	PrecSep_0	
180-153376-6	DUP-03	Total/NA	Water	PrecSep_0	
180-153376-7	APMW-7	Total/NA	Water	PrecSep_0	
180-153376-8	APMW-6R	Total/NA	Water	PrecSep_0	
180-153376-9	FB-01	Total/NA	Water	PrecSep_0	
180-153376-10	EB-01	Total/NA	Water	PrecSep_0	
MB 160-604594/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-604594/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

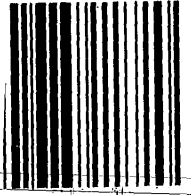
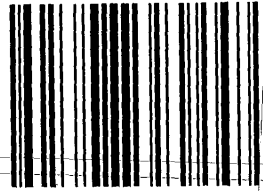
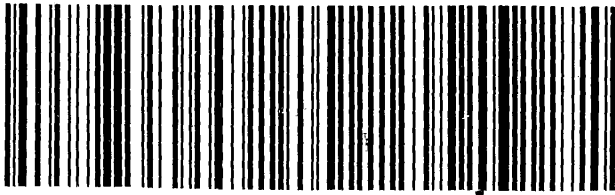
Prep Batch: 607341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153376-11	APMW-5D	Total/NA	Water	PrecSep_0	
MB 160-607341/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-607341/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCS 160-607341/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Chain of Custody Record

Client Information Client Contact: RICK HARRIS SCS Contacts: - 850-336-0192 Company: SCS		Lab PM: Brown, Shail E-Mail: shail.brown@eurofinset.com	
Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email: [Redacted] SCS Contacts: [Redacted] Project Name: Plant Watson Site: [Redacted]		Carrier Tracking No(s): Job #: 1 of 1	
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 18020186 SSOV#:		Analysis Requested: 2540 Total Dissolved Solids 300 28Day Chloride Fluoride Sulfate Bromide 6020B/740 Custom 23 (App/II/APPV+9) + Mercury + Fe Mg Na Al Mn K Sr Si and Silica 5310C Total Organic Carbon 2320B Alkalinity, Total, Carb, Bicarb 9315 Ra226 Radium 226 9320 Ra228 Radium 228 Combined RAD 2540 Total Suspended Solids	
Sample Identification: APNW-8 APNW-6D PZ-4 APNW-5 APNW-8D DUP-03 APNW-7 APNW-6R FB-01 EB-01 APNW-5D		Field Filtered Sample (Yes or No): Matrix (W=water, S=solid, O=oil, T=tissue, A=air): Sample Type (C=Comp, G=grab) Sample Time Sample Date Preservation Code: 9 MAR 23 1510 W 9 MAR 23 1212 W 9 MAR 23 1056 W 9 MAR 23 0845 W 9 MAR 23 1453 W 9 MAR 23 1353 W 9 MAR 23 1230 W 9 MAR 23 1024 W 9 MAR 23 0907 W 9 MAR 23 0917 W 9 MAR 23 0721 W	
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		Special Instructions/Note: 180-153376 Chain of Custody Barcode: [Barcode]	
Deliverable Requested: I, II, III, IV, Other (specify) Empty Kit Relinquished by: Relinquished by: Todd Vobers Relinquished by: [Redacted] Relinquished by: [Redacted]		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:	
Custody Seals Intact: Custody Seal No. Δ Yes Δ No		Date/Time: 9 MAR 23 1614 Date/Time: [Redacted] Date/Time: [Redacted]	
Relinquished by: [Redacted] Relinquished by: [Redacted]		Received by: [Redacted] Received by: [Redacted]	
Company: [Redacted]		Company: [Redacted]	





PA-US
PIT 15238
AHS
FRI - 10 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA
MASTER #
RK# 3955 6571 5310
1 of 3

PA-US
PIT 15238
AHS
FRI - 10 MAR 10:30A
PRIORITY OVERNIGHT

XN AG
MPS# 3955 6571 53
1 of 3

180-153376 Waybill



PT-WI-SR-001 effective 11/8/18
CF 0.1 Initials
Thermometer ID
Uncorrected temp 3.7 °C



PT-WI-SR-001 effective 11/8/18
CF 0.1 Initials
Thermometer ID
Uncorrected temp 3.2 °C

PITTSBURGH PA 15238

PITTSBURGH PA 15238

PITTSBURGH PA 15238

EUROFINS TEST AMERICA

EUROFINS TEST AMERICA

301 ALPHA DR

301 ALPHA DR

SHIP DATE: 09MAR23
ACTWGT: 62.45 LB
CAD: 6993799/55FE2401
DIMS: 24x13x14 IN
TESTAMERICA PITTSBURGH LAB
SEE CHEERS & BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 09MAR23
ACTWGT: 62.45 LB
CAD: 6993799/55FE2401
DIMS: 24x13x14 IN
TESTAMERICA PITTSBURGH LAB
SEE CHEERS & BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

ORIGIN ID: B1XA (850) 396-0192

Part # 156287-385-4410E2-EXP-12/23

Part # 156287-385-4410E2-EXP-12/23

Do Not Lift Using This Tag

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- 11
- 12
- 13



XN AGCA
 Mstr# 3955 6571 5310
 0263
 MPS# 3955 6571 5332
 3 of 3
 0201
 FRI - 10 MAR 10:30A
 PRIORITY OVERNIGHT
 AHS
 15238
 PA-US
 PIT

PT-WI-SR-001 effective 1/8/18
 C.P.O. Initials MD
 Thermometer ID 3.9
 Uncorrected temp 18
 Fedex Express
 E
 40101106201827

TO EUROFINS TEST AMERICA
 301 ALPHA DR
 PITTSBURGH PA 15238
 (412) 963-7058
 REF: _____
 DEPT: _____

ORIGIN ID: B1XA (850) 336-0192
 TESTAMERICA PITTSBURGH LAB
 SEE CHEERS 5 BEFORE BILL
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US
 BILL THIRD PARTY
 SHIP DATE: 09MAR23
 ACTWGT: 62.45 LB
 CAD: 6993799/SSE2401
 DIMS: 24x13x14 IN

Part # 156297468#H010185EXP 12/23

Chain of Custody Record



Environment Testing



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s): 180-482170-1
Client Contact: Shipping/Receiving		State of Origin: Georgia	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		E-Mail: Shali.Brown@et.eurofins.com	Job #: 180-153376-2
Address: 13715 Rider Trail North, Earth City State, Zip: MO, 63045		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 Y - Trizma Z - other (specify) Other:	
Due Date Requested: 3/23/2023		Analysis Requested	
TAT Requested (days):		Total Number of Containers	
PO #:		9315_Ra226/PreSep_21 Radium 226	
WO #:		9320_Ra226/PreSep_0 Radium 228	
Project #: 18020186		Radium-228	
SSOW#:		Ra226Ra228 GFPC/ Combined Radium-226 and	
Sample Date		Field Filtered Sample (Yes or No)	
Sample Time		Perform MS/MSD (Yes or No)	
Sample Type (C=Comp, G=grab)		Preservation Code:	
Matrix (W=water, S=solid, O=on-site, BT=Tabur, AA=Air)		Special Instructions/Note:	
APMW-8 (180-153376-1)	3/9/23 15:10 Eastern	Water	X
APMW-6D (180-153376-2)	3/9/23 12:12 Eastern	Water	X
PZ-4 (180-153376-3)	3/9/23 10:56 Eastern	Water	X
APMW-5 (180-153376-4)	3/9/23 08:45 Eastern	Water	X
APMW-8D (180-153376-5)	3/9/23 14:53 Eastern	Water	X
DUP-03 (180-153376-6)	3/9/23 13:53 Eastern	Water	X
APMW-7 (180-153376-7)	3/9/23 12:30 Eastern	Water	X
APMW-6R (180-153376-8)	3/9/23 10:24 Eastern	Water	X
FB-01 (180-153376-9)	3/9/23 09:07 Eastern	Water	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
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: 3-13-23 1800
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ 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: *Shali Brown* Date/Time: *3-13-23 1800* Company: *ET*
 Received by: *Sana Washington* Date/Time: *MAR 14 2023 0915* Company: *ET*
 Received by: _____ Date/Time: _____ Company: _____
 Method of Shipment: *FEDEX*



Chain of Custody Record



Environment Testing



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s): 180-482170.1
Client Contact Shipping/Receiving		E-Mail: Shali.Brown@et.eurofins.com	Page: Page 1 of 1
Company TestAmerica Laboratories, Inc.		Accreditations Required (See note): 180-153376-1	
Address: 13715 Rider Trail North,		State of Origin: Georgia	
City: Earth City	Due Date Requested: 3/23/2023	Job #: 180-153376-1	
State, Zip: MO, 63045	TAT Requested (days):	Preservation Codes: 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 Y - Tizma Z - other (specify)	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:	Other: 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	
Email:	WO #:	Special Instructions/Note:	
Project Name: Plant Watson Ash Pond	Project #: 18020186	Total Number of containers	
Site: SSOW#	SSOW#	2	
Sample Identification - Client ID (Lab ID)		Perform MS/MSD (Yes or No)	
APMW-8 (180-153376-1)	Sample Date 3/9/23	X	
	Sample Time 15:10 Eastern	X	
	Sample Type (C=Comp, G=grab)	Field Filtered Sample (Yes or No)	
	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	9315_Ra226/PrecSep_21 Radium 226	
	Preservation Code:	9320_Ra228/PrecSep_0 Radium 228	
		Analysis Requested	
<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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.</p>			
Possible Hazard Identification			
Unconfirmed			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Relinquished by: <i>Shali Brown</i>		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
Date/Time: 3/13/23 18:00	Company: <i>CRANE</i>	Method of Shipment:	
Date/Time: <i>MAR 14 2023 09:05</i>	Company: <i>CRANE</i>	Received by: <i>FED EX</i>	
Date/Time:	Company:	Received by: <i>Sima Woodrington</i>	
Date/Time:	Company:	Received by:	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-153376-2

Login Number: 153376

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: 180-153376-2

Login Number: 153376

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 03/14/23 11:28 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

PREPARED FOR

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

Generated 5/10/2023 12:49:48 PM

JOB DESCRIPTION

Plant Watson Ash Pond

JOB NUMBER

180-153449-1

Eurofins Pittsburgh

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Pittsburgh and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Pittsburgh Project Manager or designee who has signed this report.

PA Lab ID: 02-00416

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

Authorization



Generated
5/10/2023 12:49:48 PM

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



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions/Glossary	5
Certification Summary	6
Sample Summary	7
Method Summary	8
Lab Chronicle	9
Client Sample Results	13
QC Sample Results	18
QC Association Summary	23
Chain of Custody	26
Receipt Checklists	29

Case Narrative

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

Job ID: 180-153449-1

Job ID: 180-153449-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-153449-1

Comments

No additional comments.

Receipt

The samples were received on 3/11/2023 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 2 coolers at receipt time were 2.5° C and 2.6° C.

GC Semi VOA

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: APMW-13 (180-153449-1), APMW-14 (180-153449-2), APMW-15 (180-153449-3), APMW-16 (180-153449-4), DUP-04 (180-153449-5). 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.

Metals

Method 6020B: The continuing calibration verification (CCV) associated with batch 180-433445 recovered above the upper control limit for beryllium. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

Method 6020B: The following samples were diluted to bring the concentration of sodium and/or silicon/silica to within the instrument's linear range: APMW-13 (180-153449-1), APMW-14 (180-153449-2), APMW-15 (180-153449-3), APMW-16 (180-153449-4) and DUP-04 (180-153449-5). Elevated reporting limits (RLs) are provided. Boron is also reported from the dilutions due to the matrix effect from the high sodium levels.

Method 6020B: The low level continuing calibration verification (CCVL) associated with batch 180-433881 recovered above the upper control limit for sodium and boron for APMW-13 (180-153449-1), APMW-14 (180-153449-2), APMW-15 (180-153449-3), APMW-16 (180-153449-4) and DUP-04 (180-153449-5) The samples associated with this CCVL had results that were greater than the continuing calibration verification (CCV), negating the need for the low-level verification for these analytes; therefore, the data have been reported.

Method 6020B: The method blank for preparation batch 180-430292 and analytical batch 180-433881 contained sodium above the reporting limit (RL). Associated samples were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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.

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: 180-153449-1

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
^+	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.
▫	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: 180-153449-1

Laboratory: Eurofins Pittsburgh

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

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

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



Sample Summary

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

Job ID: 180-153449-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-153449-1	APMW-13	Water	03/10/23 12:07	03/11/23 09:00
180-153449-2	APMW-14	Water	03/10/23 11:01	03/11/23 09:00
180-153449-3	APMW-15	Water	03/10/23 09:48	03/11/23 09:00
180-153449-4	APMW-16	Water	03/10/23 08:16	03/11/23 09:00
180-153449-5	DUP-04	Water	03/10/23 10:01	03/11/23 09:00

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Method Summary

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

Job ID: 180-153449-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET PIT
EPA 6020B	Metals (ICP/MS)	SW846	EET PIT
EPA 7470A	Mercury (CVAA)	SW846	EET PIT
5310 C-2014	Total Organic Carbon/Persulfate - Ultrav	SM	EET PIT
EPA 353.2	Nitrogen, Nitrate-Nitrite	EPA	EET PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PIT
SM2320 B	Alkalinity, Total	SM18	EET PIT
Field Sampling	Field Sampling	EPA	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
7470A	Preparation, Mercury	SW846	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

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:

EET 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: 180-153449-1

Client Sample ID: APMW-13

Lab Sample ID: 180-153449-1

Date Collected: 03/10/23 12:07

Matrix: Water

Date Received: 03/11/23 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	1 mL	1 mL	429106	03/14/23 19:48	M1D	EET PIT
	Instrument ID: INTEGRION									
Total/NA	Analysis	300.0		5	1 mL	1 mL	429106	03/14/23 20:06	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	430292	03/24/23 11:00	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433445	04/26/23 01:31	RJR	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	430292	03/24/23 11:00	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		5			433881	04/28/23 17:46	RJR	EET PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	430156	03/23/23 08:44	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			430328	03/24/23 11:57	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	431710	04/06/23 20:13	LWM	EET PIT
	Instrument ID: TOC1030									
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	430081	03/22/23 14:45	SNR	EET PIT
	Instrument ID: ASTORIA2									
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	429481	03/16/23 20:21	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			429381	03/15/23 17:17	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			431326	03/10/23 12:07	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: APMW-14

Lab Sample ID: 180-153449-2

Date Collected: 03/10/23 11:01

Matrix: Water

Date Received: 03/11/23 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	1 mL	1 mL	429106	03/14/23 20:25	M1D	EET PIT
	Instrument ID: INTEGRION									
Total/NA	Analysis	300.0		10	1 mL	1 mL	429106	03/14/23 20:43	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	430292	03/24/23 11:00	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433445	04/26/23 01:35	RJR	EET PIT
	Instrument ID: DORY									
Total Recoverable	Prep	3005A			25 mL	25 mL	430292	03/24/23 11:00	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		5			433881	04/28/23 17:49	RJR	EET PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	430156	03/23/23 08:44	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			430328	03/24/23 11:58	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	431710	04/05/23 22:16	LWM	EET PIT
	Instrument ID: TOC1030									

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-153449-1

Client Sample ID: APMW-14

Lab Sample ID: 180-153449-2

Date Collected: 03/10/23 11:01

Matrix: Water

Date Received: 03/11/23 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	EPA 353.2		1	10 mL	10 mL	430081	03/22/23 14:18	SNR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	15 mL	100 mL	429480	03/16/23 19:33	LWM	EET PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			429381	03/15/23 17:24	MAM	EET PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			431326	03/10/23 11:01	FDS	EET PIT

Client Sample ID: APMW-15

Lab Sample ID: 180-153449-3

Date Collected: 03/10/23 09:48

Matrix: Water

Date Received: 03/11/23 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 Instrument ID: INTEGRION		1	1 mL	1 mL	429106	03/14/23 21:02	M1D	EET PIT
Total/NA	Analysis	300.0 Instrument ID: INTEGRION		10	1 mL	1 mL	429106	03/14/23 21:20	M1D	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430292	03/24/23 11:00	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: DORY		1			433445	04/26/23 01:49	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430292	03/24/23 11:00	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		5			433881	04/28/23 17:52	RJR	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	430156	03/23/23 08:44	RJR	EET PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			430328	03/24/23 11:59	RJR	EET PIT
Total/NA	Analysis	5310 C-2014 Instrument ID: TOC1030		1	40 mL	40 mL	431710	04/05/23 22:40	LWM	EET PIT
Total/NA	Analysis	EPA 353.2 Instrument ID: ASTORIA2		1	10 mL	10 mL	430081	03/22/23 14:19	SNR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	20 mL	100 mL	429480	03/16/23 19:33	LWM	EET PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			429381	03/15/23 17:29	MAM	EET PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			431326	03/10/23 09:48	FDS	EET PIT

Client Sample ID: APMW-16

Lab Sample ID: 180-153449-4

Date Collected: 03/10/23 08:16

Matrix: Water

Date Received: 03/11/23 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 Instrument ID: INTEGRION		1	1 mL	1 mL	429106	03/14/23 22:16	M1D	EET PIT

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-153449-1

Client Sample ID: APMW-16

Lab Sample ID: 180-153449-4

Date Collected: 03/10/23 08:16

Matrix: Water

Date Received: 03/11/23 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	1 mL	1 mL	429106	03/14/23 22:34	M1D	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	430292	03/24/23 11:00	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433445	04/26/23 02:00	RJR	EET PIT
		Instrument ID: DORY								
Total Recoverable	Prep	3005A			25 mL	25 mL	430292	03/24/23 11:00	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		5			433881	04/28/23 17:55	RJR	EET PIT
		Instrument ID: NEMO								
Total/NA	Prep	7470A			25 mL	25 mL	430156	03/23/23 08:44	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			430328	03/24/23 12:00	RJR	EET PIT
		Instrument ID: HGZ								
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	431710	04/06/23 00:41	LWM	EET PIT
		Instrument ID: TOC1030								
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	430081	03/22/23 14:21	SNR	EET PIT
		Instrument ID: ASTORIA2								
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	429480	03/16/23 19:33	LWM	EET PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			429381	03/15/23 17:37	MAM	EET PIT
		Instrument ID: PCTITRATOR								
Total/NA	Analysis	Field Sampling		1			431326	03/10/23 08:16	FDS	EET PIT
		Instrument ID: NOEQUIP								

Client Sample ID: DUP-04

Lab Sample ID: 180-153449-5

Date Collected: 03/10/23 10:01

Matrix: Water

Date Received: 03/11/23 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	1 mL	1 mL	429106	03/14/23 22:53	M1D	EET PIT
		Instrument ID: INTEGRION								
Total/NA	Analysis	300.0		10	1 mL	1 mL	429106	03/14/23 23:11	M1D	EET PIT
		Instrument ID: INTEGRION								
Total Recoverable	Prep	3005A			25 mL	25 mL	430292	03/24/23 11:00	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433445	04/26/23 02:15	RJR	EET PIT
		Instrument ID: DORY								
Total Recoverable	Prep	3005A			25 mL	25 mL	430292	03/24/23 11:00	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		5			433881	04/28/23 17:58	RJR	EET PIT
		Instrument ID: NEMO								
Total/NA	Prep	7470A			25 mL	25 mL	430156	03/23/23 08:44	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			430328	03/24/23 12:01	RJR	EET PIT
		Instrument ID: HGZ								
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	431710	04/06/23 01:05	LWM	EET PIT
		Instrument ID: TOC1030								
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	430081	03/22/23 14:22	SNR	EET PIT
		Instrument ID: ASTORIA2								
Total/NA	Analysis	SM 2540C		1	15 mL	100 mL	429480	03/16/23 19:33	LWM	EET PIT
		Instrument ID: NOEQUIP								

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-153449-1

Client Sample ID: DUP-04
Date Collected: 03/10/23 10:01
Date Received: 03/11/23 09:00

Lab Sample ID: 180-153449-5
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	SM2320 B		1			429381	03/15/23 17:45	MAM	EET PIT
Total/NA	Analysis	Field Sampling		1			431326	03/10/23 10:01	FDS	EET PIT

Instrument ID: NOEQUIP

Laboratory References:

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

Analyst References:

Lab: EET PIT

Batch Type: Prep

HCY = Harrison Yaeger

RJR = Ron Rosenbaum

Batch Type: Analysis

FDS = Sampler Field

LWM = Leslie McIntire

M1D = Maureen Donlin

MAM = Matthew Martin

RJR = Ron Rosenbaum

SNR = Sabra Richart

Client Sample Results

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

Job ID: 180-153449-1

Client Sample ID: APMW-13

Lab Sample ID: 180-153449-1

Date Collected: 03/10/23 12:07

Matrix: Water

Date Received: 03/11/23 09:00

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	5.4		0.10	0.053	mg/L			03/14/23 19:48	1
Chloride	1300		5.0	3.6	mg/L			03/14/23 20:06	5
Fluoride	0.064	J	0.20	0.026	mg/L			03/14/23 19:48	1
Sulfate	850		1.0	0.76	mg/L			03/14/23 19:48	1

Method: SW846 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		03/24/23 11:00	04/26/23 01:31	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/24/23 11:00	04/26/23 01:31	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/24/23 11:00	04/26/23 01:31	1
Barium	0.22		0.010	0.0031	mg/L		03/24/23 11:00	04/26/23 01:31	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/24/23 11:00	04/26/23 01:31	1
Boron	0.66		0.40	0.30	mg/L		03/24/23 11:00	04/28/23 17:46	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/24/23 11:00	04/26/23 01:31	1
Calcium	91		0.50	0.13	mg/L		03/24/23 11:00	04/26/23 01:31	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/24/23 11:00	04/26/23 01:31	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/24/23 11:00	04/26/23 01:31	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/24/23 11:00	04/26/23 01:31	1
Lithium	0.0050		0.0050	0.0013	mg/L		03/24/23 11:00	04/26/23 01:31	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/24/23 11:00	04/26/23 01:31	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/24/23 11:00	04/26/23 01:31	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/24/23 11:00	04/26/23 01:31	1
Iron	32		0.050	0.028	mg/L		03/24/23 11:00	04/26/23 01:31	1
Potassium	41		0.50	0.16	mg/L		03/24/23 11:00	04/26/23 01:31	1
Magnesium	170		0.50	0.050	mg/L		03/24/23 11:00	04/26/23 01:31	1
Manganese	1.0		0.0050	0.0013	mg/L		03/24/23 11:00	04/26/23 01:31	1
Sodium	840	B	2.5	0.92	mg/L		03/24/23 11:00	04/28/23 17:46	5
Silicon	11		2.5	0.31	mg/L		03/24/23 11:00	04/28/23 17:46	5
Strontium	1.2		0.0050	0.0017	mg/L		03/24/23 11:00	04/26/23 01:31	1
SiO2, Silica	23		5.4	0.76	mg/L		03/24/23 11:00	04/28/23 17:46	5

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/23/23 08:44	03/24/23 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	5.2		1.0	0.51	mg/L			04/06/23 20:13	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/22/23 14:45	1
Total Dissolved Solids (SM 2540C)	3600		40	40	mg/L			03/16/23 20:21	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	190		5.0	5.0	mg/L			03/15/23 17:17	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	190		5.0	5.0	mg/L			03/15/23 17:17	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/15/23 17:17	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.00				SU			03/10/23 12:07	1

Eurofins Pittsburgh

Client Sample Results

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

Job ID: 180-153449-1

Client Sample ID: APMW-14

Lab Sample ID: 180-153449-2

Date Collected: 03/10/23 11:01

Matrix: Water

Date Received: 03/11/23 09:00

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	9.1		0.10	0.053	mg/L			03/14/23 20:25	1
Chloride	2700		10	7.1	mg/L			03/14/23 20:43	10
Fluoride	0.094	J	0.20	0.026	mg/L			03/14/23 20:25	1
Sulfate	870		1.0	0.76	mg/L			03/14/23 20:25	1

Method: SW846 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		03/24/23 11:00	04/26/23 01:35	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/24/23 11:00	04/26/23 01:35	1
Arsenic	0.00034	J	0.0010	0.00028	mg/L		03/24/23 11:00	04/26/23 01:35	1
Barium	0.19		0.010	0.0031	mg/L		03/24/23 11:00	04/26/23 01:35	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/24/23 11:00	04/26/23 01:35	1
Boron	0.69		0.40	0.30	mg/L		03/24/23 11:00	04/28/23 17:49	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/24/23 11:00	04/26/23 01:35	1
Calcium	110		0.50	0.13	mg/L		03/24/23 11:00	04/26/23 01:35	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/24/23 11:00	04/26/23 01:35	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/24/23 11:00	04/26/23 01:35	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/24/23 11:00	04/26/23 01:35	1
Lithium	0.0069		0.0050	0.0013	mg/L		03/24/23 11:00	04/26/23 01:35	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/24/23 11:00	04/26/23 01:35	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/24/23 11:00	04/26/23 01:35	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/24/23 11:00	04/26/23 01:35	1
Iron	34		0.050	0.028	mg/L		03/24/23 11:00	04/26/23 01:35	1
Potassium	54		0.50	0.16	mg/L		03/24/23 11:00	04/26/23 01:35	1
Magnesium	240		0.50	0.050	mg/L		03/24/23 11:00	04/26/23 01:35	1
Manganese	0.73		0.0050	0.0013	mg/L		03/24/23 11:00	04/26/23 01:35	1
Sodium	1600	B	2.5	0.92	mg/L		03/24/23 11:00	04/28/23 17:49	5
Silicon	4.4		2.5	0.31	mg/L		03/24/23 11:00	04/28/23 17:49	5
Strontium	1.5		0.0050	0.0017	mg/L		03/24/23 11:00	04/26/23 01:35	1
SiO2, Silica	9.4		5.4	0.76	mg/L		03/24/23 11:00	04/28/23 17:49	5

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/23/23 08:44	03/24/23 11:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	3.3		1.0	0.51	mg/L			04/05/23 22:16	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/22/23 14:18	1
Total Dissolved Solids (SM 2540C)	5600		67	67	mg/L			03/16/23 19:33	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	140		5.0	5.0	mg/L			03/15/23 17:24	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	140		5.0	5.0	mg/L			03/15/23 17:24	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/15/23 17:24	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.00				SU			03/10/23 11:01	1

Eurofins Pittsburgh

Client Sample Results

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

Job ID: 180-153449-1

Client Sample ID: APMW-15

Lab Sample ID: 180-153449-3

Date Collected: 03/10/23 09:48

Matrix: Water

Date Received: 03/11/23 09:00

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	11		0.10	0.053	mg/L			03/14/23 21:02	1
Chloride	2800		10	7.1	mg/L			03/14/23 21:20	10
Fluoride	0.19	J	0.20	0.026	mg/L			03/14/23 21:02	1
Sulfate	88		1.0	0.76	mg/L			03/14/23 21:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.017	J	0.030	0.016	mg/L		03/24/23 11:00	04/26/23 01:49	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/24/23 11:00	04/26/23 01:49	1
Arsenic	0.00078	J	0.0010	0.00028	mg/L		03/24/23 11:00	04/26/23 01:49	1
Barium	0.045		0.010	0.0031	mg/L		03/24/23 11:00	04/26/23 01:49	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/24/23 11:00	04/26/23 01:49	1
Boron	0.66		0.40	0.30	mg/L		03/24/23 11:00	04/28/23 17:52	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/24/23 11:00	04/26/23 01:49	1
Calcium	60		0.50	0.13	mg/L		03/24/23 11:00	04/26/23 01:49	1
Chromium	0.0015	J	0.0020	0.0015	mg/L		03/24/23 11:00	04/26/23 01:49	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/24/23 11:00	04/26/23 01:49	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/24/23 11:00	04/26/23 01:49	1
Lithium	0.014		0.0050	0.0013	mg/L		03/24/23 11:00	04/26/23 01:49	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/24/23 11:00	04/26/23 01:49	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/24/23 11:00	04/26/23 01:49	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/24/23 11:00	04/26/23 01:49	1
Iron	<0.028		0.050	0.028	mg/L		03/24/23 11:00	04/26/23 01:49	1
Potassium	48		0.50	0.16	mg/L		03/24/23 11:00	04/26/23 01:49	1
Magnesium	170		0.50	0.050	mg/L		03/24/23 11:00	04/26/23 01:49	1
Manganese	0.16		0.0050	0.0013	mg/L		03/24/23 11:00	04/26/23 01:49	1
Sodium	1500	B	2.5	0.92	mg/L		03/24/23 11:00	04/28/23 17:52	5
Silicon	16		2.5	0.31	mg/L		03/24/23 11:00	04/28/23 17:52	5
Strontium	1.1		0.0050	0.0017	mg/L		03/24/23 11:00	04/26/23 01:49	1
SiO2, Silica	34		5.4	0.76	mg/L		03/24/23 11:00	04/28/23 17:52	5

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/23/23 08:44	03/24/23 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	7.7		1.0	0.51	mg/L			04/05/23 22:40	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/22/23 14:19	1
Total Dissolved Solids (SM 2540C)	5000		50	50	mg/L			03/16/23 19:33	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	380		5.0	5.0	mg/L			03/15/23 17:29	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	380		5.0	5.0	mg/L			03/15/23 17:29	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/15/23 17:29	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.48				SU			03/10/23 09:48	1

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Client Sample Results

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

Job ID: 180-153449-1

Client Sample ID: APMW-16

Lab Sample ID: 180-153449-4

Date Collected: 03/10/23 08:16

Matrix: Water

Date Received: 03/11/23 09:00

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	9.9		0.10	0.053	mg/L			03/14/23 22:16	1
Chloride	2600		10	7.1	mg/L			03/14/23 22:34	10
Fluoride	0.18	J	0.20	0.026	mg/L			03/14/23 22:16	1
Sulfate	76		1.0	0.76	mg/L			03/14/23 22:16	1

Method: SW846 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		03/24/23 11:00	04/26/23 02:00	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/24/23 11:00	04/26/23 02:00	1
Arsenic	0.00073	J	0.0010	0.00028	mg/L		03/24/23 11:00	04/26/23 02:00	1
Barium	0.055		0.010	0.0031	mg/L		03/24/23 11:00	04/26/23 02:00	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/24/23 11:00	04/26/23 02:00	1
Boron	0.67		0.40	0.30	mg/L		03/24/23 11:00	04/28/23 17:55	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/24/23 11:00	04/26/23 02:00	1
Calcium	57		0.50	0.13	mg/L		03/24/23 11:00	04/26/23 02:00	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/24/23 11:00	04/26/23 02:00	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/24/23 11:00	04/26/23 02:00	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/24/23 11:00	04/26/23 02:00	1
Lithium	0.0093		0.0050	0.0013	mg/L		03/24/23 11:00	04/26/23 02:00	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/24/23 11:00	04/26/23 02:00	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/24/23 11:00	04/26/23 02:00	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/24/23 11:00	04/26/23 02:00	1
Iron	<0.028		0.050	0.028	mg/L		03/24/23 11:00	04/26/23 02:00	1
Potassium	46		0.50	0.16	mg/L		03/24/23 11:00	04/26/23 02:00	1
Magnesium	160		0.50	0.050	mg/L		03/24/23 11:00	04/26/23 02:00	1
Manganese	0.14		0.0050	0.0013	mg/L		03/24/23 11:00	04/26/23 02:00	1
Sodium	1400	B	2.5	0.92	mg/L		03/24/23 11:00	04/28/23 17:55	5
Silicon	15		2.5	0.31	mg/L		03/24/23 11:00	04/28/23 17:55	5
Strontium	0.97		0.0050	0.0017	mg/L		03/24/23 11:00	04/26/23 02:00	1
SiO2, Silica	33		5.4	0.76	mg/L		03/24/23 11:00	04/28/23 17:55	5

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/23/23 08:44	03/24/23 12:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	8.2		1.0	0.51	mg/L			04/06/23 00:41	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/22/23 14:21	1
Total Dissolved Solids (SM 2540C)	4700		50	50	mg/L			03/16/23 19:33	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	390		5.0	5.0	mg/L			03/15/23 17:37	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	390		5.0	5.0	mg/L			03/15/23 17:37	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/15/23 17:37	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.50				SU			03/10/23 08:16	1

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Client Sample Results

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

Job ID: 180-153449-1

Client Sample ID: DUP-04

Lab Sample ID: 180-153449-5

Date Collected: 03/10/23 10:01

Matrix: Water

Date Received: 03/11/23 09:00

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	10		0.10	0.053	mg/L			03/14/23 22:53	1
Chloride	2800		10	7.1	mg/L			03/14/23 23:11	10
Fluoride	0.088	J	0.20	0.026	mg/L			03/14/23 22:53	1
Sulfate	890		1.0	0.76	mg/L			03/14/23 22:53	1

Method: SW846 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		03/24/23 11:00	04/26/23 02:15	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/24/23 11:00	04/26/23 02:15	1
Arsenic	0.00032	J	0.0010	0.00028	mg/L		03/24/23 11:00	04/26/23 02:15	1
Barium	0.20		0.010	0.0031	mg/L		03/24/23 11:00	04/26/23 02:15	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/24/23 11:00	04/26/23 02:15	1
Boron	0.72		0.40	0.30	mg/L		03/24/23 11:00	04/28/23 17:58	5
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/24/23 11:00	04/26/23 02:15	1
Calcium	110		0.50	0.13	mg/L		03/24/23 11:00	04/26/23 02:15	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/24/23 11:00	04/26/23 02:15	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/24/23 11:00	04/26/23 02:15	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/24/23 11:00	04/26/23 02:15	1
Lithium	0.0075		0.0050	0.0013	mg/L		03/24/23 11:00	04/26/23 02:15	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/24/23 11:00	04/26/23 02:15	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/24/23 11:00	04/26/23 02:15	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/24/23 11:00	04/26/23 02:15	1
Iron	36		0.050	0.028	mg/L		03/24/23 11:00	04/26/23 02:15	1
Potassium	56		0.50	0.16	mg/L		03/24/23 11:00	04/26/23 02:15	1
Magnesium	260		0.50	0.050	mg/L		03/24/23 11:00	04/26/23 02:15	1
Manganese	0.77		0.0050	0.0013	mg/L		03/24/23 11:00	04/26/23 02:15	1
Sodium	1600	B	2.5	0.92	mg/L		03/24/23 11:00	04/28/23 17:58	5
Silicon	4.4		2.5	0.31	mg/L		03/24/23 11:00	04/28/23 17:58	5
Strontium	1.6		0.0050	0.0017	mg/L		03/24/23 11:00	04/26/23 02:15	1
SiO2, Silica	9.4		5.4	0.76	mg/L		03/24/23 11:00	04/28/23 17:58	5

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/23/23 08:44	03/24/23 12:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	3.4		1.0	0.51	mg/L			04/06/23 01:05	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/22/23 14:22	1
Total Dissolved Solids (SM 2540C)	5800		67	67	mg/L			03/16/23 19:33	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	140		5.0	5.0	mg/L			03/15/23 17:45	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	140		5.0	5.0	mg/L			03/15/23 17:45	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/15/23 17:45	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.00				SU			03/10/23 10:01	1

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QC Sample Results

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

Job ID: 180-153449-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-429106/6
Matrix: Water
Analysis Batch: 429106

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			03/14/23 11:10	1
Chloride	<0.71		1.0	0.71	mg/L			03/14/23 11:10	1
Fluoride	<0.026		0.20	0.026	mg/L			03/14/23 11:10	1
Sulfate	<0.76		1.0	0.76	mg/L			03/14/23 11:10	1

Lab Sample ID: LCS 180-429106/7
Matrix: Water
Analysis Batch: 429106

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	9.87		mg/L		99	90 - 110
Chloride	50.0	48.9		mg/L		98	90 - 110
Fluoride	2.50	2.64		mg/L		106	90 - 110
Sulfate	50.0	52.1		mg/L		104	90 - 110

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

Lab Sample ID: MB 180-430292/1-A
Matrix: Water
Analysis Batch: 433445

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 430292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		03/24/23 11:00	04/26/23 00:17	1
Antimony	<0.00097		0.0020	0.00097	mg/L		03/24/23 11:00	04/26/23 00:17	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/24/23 11:00	04/26/23 00:17	1
Barium	<0.0031		0.010	0.0031	mg/L		03/24/23 11:00	04/26/23 00:17	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/24/23 11:00	04/26/23 00:17	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/24/23 11:00	04/26/23 00:17	1
Calcium	<0.13		0.50	0.13	mg/L		03/24/23 11:00	04/26/23 00:17	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/24/23 11:00	04/26/23 00:17	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/24/23 11:00	04/26/23 00:17	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/24/23 11:00	04/26/23 00:17	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/24/23 11:00	04/26/23 00:17	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/24/23 11:00	04/26/23 00:17	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/24/23 11:00	04/26/23 00:17	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/24/23 11:00	04/26/23 00:17	1
Iron	<0.028		0.050	0.028	mg/L		03/24/23 11:00	04/26/23 00:17	1
Potassium	<0.16		0.50	0.16	mg/L		03/24/23 11:00	04/26/23 00:17	1
Magnesium	<0.050		0.50	0.050	mg/L		03/24/23 11:00	04/26/23 00:17	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/24/23 11:00	04/26/23 00:17	1
Sodium	<0.18		0.50	0.18	mg/L		03/24/23 11:00	04/26/23 00:17	1
Strontium	<0.0017		0.0050	0.0017	mg/L		03/24/23 11:00	04/26/23 00:17	1

Lab Sample ID: MB 180-430292/1-A
Matrix: Water
Analysis Batch: 433881

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 430292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		03/24/23 11:00	04/28/23 17:40	1

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QC Sample Results

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

Job ID: 180-153449-1

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

Lab Sample ID: MB 180-430292/1-A
Matrix: Water
Analysis Batch: 433881

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 430292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	0.553		0.50	0.18	mg/L		03/24/23 11:00	04/28/23 17:40	1
Silicon	<0.062		0.50	0.062	mg/L		03/24/23 11:00	04/28/23 17:40	1
SiO2, Silica	<0.15		1.1	0.15	mg/L		03/24/23 11:00	04/28/23 17:40	1

Lab Sample ID: LCS 180-430292/2-A
Matrix: Water
Analysis Batch: 433445

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 430292

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5.00	4.50		mg/L		90	80 - 120
Antimony	0.250	0.256		mg/L		102	80 - 120
Arsenic	1.00	0.927		mg/L		93	80 - 120
Barium	1.00	0.948		mg/L		95	80 - 120
Beryllium	0.500	0.552	^+	mg/L		110	80 - 120
Cadmium	0.500	0.489		mg/L		98	80 - 120
Calcium	25.0	26.2		mg/L		105	80 - 120
Chromium	0.500	0.480		mg/L		96	80 - 120
Cobalt	0.500	0.465		mg/L		93	80 - 120
Lead	0.500	0.482		mg/L		96	80 - 120
Lithium	0.500	0.481		mg/L		96	80 - 120
Molybdenum	0.500	0.487		mg/L		97	80 - 120
Selenium	1.00	0.962		mg/L		96	80 - 120
Thallium	1.00	0.975		mg/L		98	80 - 120
Iron	5.00	4.68		mg/L		94	80 - 120
Potassium	25.0	24.6		mg/L		99	80 - 120
Magnesium	25.0	23.9		mg/L		96	80 - 120
Manganese	0.500	0.467		mg/L		93	80 - 120
Sodium	25.0	24.7		mg/L		99	80 - 120
Strontium	0.500	0.445		mg/L		89	80 - 120

Lab Sample ID: LCS 180-430292/2-A
Matrix: Water
Analysis Batch: 433881

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 430292

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.13		mg/L		90	80 - 120
Sodium	25.0	25.6		mg/L		103	80 - 120
Silicon	1.00	0.858		mg/L		86	80 - 120
SiO2, Silica	2.14	1.84		mg/L		86	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-430156/1-A
Matrix: Water
Analysis Batch: 430328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430156

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/23/23 08:44	03/24/23 11:42	1

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QC Sample Results

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

Job ID: 180-153449-1

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

Lab Sample ID: LCS 180-430156/2-A
Matrix: Water
Analysis Batch: 430328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430156

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00262		mg/L		105	80 - 120

Method: 5310 C-2014 - Total Organic Carbon/Persulfate - Ultrav

Lab Sample ID: MB 180-431710/35
Matrix: Water
Analysis Batch: 431710

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 - Quad	<0.51		1.0	0.51	mg/L			04/06/23 05:12	1

Lab Sample ID: MB 180-431710/5
Matrix: Water
Analysis Batch: 431710

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 - Quad	<0.51		1.0	0.51	mg/L			04/05/23 16:59	1

Lab Sample ID: MB 180-431710/67
Matrix: Water
Analysis Batch: 431710

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 - Quad	<0.51		1.0	0.51	mg/L			04/06/23 18:12	1

Lab Sample ID: LCS 180-431710/4
Matrix: Water
Analysis Batch: 431710

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 - Quad	20.0	19.9		mg/L		100	85 - 115

Lab Sample ID: LCS 180-431710/66
Matrix: Water
Analysis Batch: 431710

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 - Quad	20.0	19.4		mg/L		97	85 - 115

Method: EPA 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 180-430081/21
Matrix: Water
Analysis Batch: 430081

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			03/22/23 13:32	1

Eurofins Pittsburgh

QC Sample Results

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

Job ID: 180-153449-1

Method: EPA 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 180-430081/20
Matrix: Water
Analysis Batch: 430081

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	2.17		mg/L		108	90 - 110

Lab Sample ID: 180-153449-1 MS
Matrix: Water
Analysis Batch: 430081

Client Sample ID: APMW-13
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	2.13		mg/L		106	90 - 110

Lab Sample ID: 180-153449-1 MSD
Matrix: Water
Analysis Batch: 430081

Client Sample ID: APMW-13
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	2.13		mg/L		107	90 - 110	0	20

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

Lab Sample ID: MB 180-429480/1
Matrix: Water
Analysis Batch: 429480

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			03/16/23 19:33	1

Lab Sample ID: LCS 180-429480/2
Matrix: Water
Analysis Batch: 429480

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	665	648		mg/L		97	85 - 115

Lab Sample ID: MB 180-429481/1
Matrix: Water
Analysis Batch: 429481

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			03/16/23 20:21	1

Lab Sample ID: LCS 180-429481/2
Matrix: Water
Analysis Batch: 429481

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	665	652		mg/L		98	85 - 115

Eurofins Pittsburgh

QC Sample Results

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

Job ID: 180-153449-1

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-429381/5
Matrix: Water
Analysis Batch: 429381

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			03/15/23 15:51	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/15/23 15:51	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/15/23 15:51	1

Lab Sample ID: LCS 180-429381/4
Matrix: Water
Analysis Batch: 429381

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	255	260		mg/L		102	90 - 110

Lab Sample ID: LLCS 180-429381/3
Matrix: Water
Analysis Batch: 429381

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	15.3	13.9		mg/L		91	75 - 125

QC Association Summary

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

Job ID: 180-153449-1

HPLC/IC

Analysis Batch: 429106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153449-1	APMW-13	Total/NA	Water	300.0	
180-153449-1	APMW-13	Total/NA	Water	300.0	
180-153449-2	APMW-14	Total/NA	Water	300.0	
180-153449-2	APMW-14	Total/NA	Water	300.0	
180-153449-3	APMW-15	Total/NA	Water	300.0	
180-153449-3	APMW-15	Total/NA	Water	300.0	
180-153449-4	APMW-16	Total/NA	Water	300.0	
180-153449-4	APMW-16	Total/NA	Water	300.0	
180-153449-5	DUP-04	Total/NA	Water	300.0	
180-153449-5	DUP-04	Total/NA	Water	300.0	
MB 180-429106/6	Method Blank	Total/NA	Water	300.0	
LCS 180-429106/7	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 430156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153449-1	APMW-13	Total/NA	Water	7470A	
180-153449-2	APMW-14	Total/NA	Water	7470A	
180-153449-3	APMW-15	Total/NA	Water	7470A	
180-153449-4	APMW-16	Total/NA	Water	7470A	
180-153449-5	DUP-04	Total/NA	Water	7470A	
MB 180-430156/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-430156/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 430292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153449-1	APMW-13	Total Recoverable	Water	3005A	
180-153449-2	APMW-14	Total Recoverable	Water	3005A	
180-153449-3	APMW-15	Total Recoverable	Water	3005A	
180-153449-4	APMW-16	Total Recoverable	Water	3005A	
180-153449-5	DUP-04	Total Recoverable	Water	3005A	
MB 180-430292/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-430292/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 430328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153449-1	APMW-13	Total/NA	Water	EPA 7470A	430156
180-153449-2	APMW-14	Total/NA	Water	EPA 7470A	430156
180-153449-3	APMW-15	Total/NA	Water	EPA 7470A	430156
180-153449-4	APMW-16	Total/NA	Water	EPA 7470A	430156
180-153449-5	DUP-04	Total/NA	Water	EPA 7470A	430156
MB 180-430156/1-A	Method Blank	Total/NA	Water	EPA 7470A	430156
LCS 180-430156/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	430156

Analysis Batch: 433445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153449-1	APMW-13	Total Recoverable	Water	EPA 6020B	430292
180-153449-2	APMW-14	Total Recoverable	Water	EPA 6020B	430292
180-153449-3	APMW-15	Total Recoverable	Water	EPA 6020B	430292
180-153449-4	APMW-16	Total Recoverable	Water	EPA 6020B	430292

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QC Association Summary

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

Job ID: 180-153449-1

Metals (Continued)

Analysis Batch: 433445 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153449-5	DUP-04	Total Recoverable	Water	EPA 6020B	430292
MB 180-430292/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	430292
LCS 180-430292/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	430292

Analysis Batch: 433881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153449-1	APMW-13	Total Recoverable	Water	EPA 6020B	430292
180-153449-2	APMW-14	Total Recoverable	Water	EPA 6020B	430292
180-153449-3	APMW-15	Total Recoverable	Water	EPA 6020B	430292
180-153449-4	APMW-16	Total Recoverable	Water	EPA 6020B	430292
180-153449-5	DUP-04	Total Recoverable	Water	EPA 6020B	430292
MB 180-430292/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	430292
LCS 180-430292/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	430292

General Chemistry

Analysis Batch: 429381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153449-1	APMW-13	Total/NA	Water	SM2320 B	
180-153449-2	APMW-14	Total/NA	Water	SM2320 B	
180-153449-3	APMW-15	Total/NA	Water	SM2320 B	
180-153449-4	APMW-16	Total/NA	Water	SM2320 B	
180-153449-5	DUP-04	Total/NA	Water	SM2320 B	
MB 180-429381/5	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-429381/4	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-429381/3	Lab Control Sample	Total/NA	Water	SM2320 B	

Analysis Batch: 429480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153449-2	APMW-14	Total/NA	Water	SM 2540C	
180-153449-3	APMW-15	Total/NA	Water	SM 2540C	
180-153449-4	APMW-16	Total/NA	Water	SM 2540C	
180-153449-5	DUP-04	Total/NA	Water	SM 2540C	
MB 180-429480/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-429480/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 429481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153449-1	APMW-13	Total/NA	Water	SM 2540C	
MB 180-429481/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-429481/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 430081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153449-1	APMW-13	Total/NA	Water	EPA 353.2	
180-153449-2	APMW-14	Total/NA	Water	EPA 353.2	
180-153449-3	APMW-15	Total/NA	Water	EPA 353.2	
180-153449-4	APMW-16	Total/NA	Water	EPA 353.2	
180-153449-5	DUP-04	Total/NA	Water	EPA 353.2	
MB 180-430081/21	Method Blank	Total/NA	Water	EPA 353.2	
LCS 180-430081/20	Lab Control Sample	Total/NA	Water	EPA 353.2	

Eurofins Pittsburgh

QC Association Summary

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

Job ID: 180-153449-1

General Chemistry (Continued)

Analysis Batch: 430081 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153449-1 MS	APMW-13	Total/NA	Water	EPA 353.2	
180-153449-1 MSD	APMW-13	Total/NA	Water	EPA 353.2	

Analysis Batch: 431710


Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153449-1	APMW-13	Total/NA	Water	5310 C-2014	
180-153449-2	APMW-14	Total/NA	Water	5310 C-2014	
180-153449-3	APMW-15	Total/NA	Water	5310 C-2014	
180-153449-4	APMW-16	Total/NA	Water	5310 C-2014	
180-153449-5	DUP-04	Total/NA	Water	5310 C-2014	
MB 180-431710/35	Method Blank	Total/NA	Water	5310 C-2014	
MB 180-431710/5	Method Blank	Total/NA	Water	5310 C-2014	
MB 180-431710/67	Method Blank	Total/NA	Water	5310 C-2014	
LCS 180-431710/4	Lab Control Sample	Total/NA	Water	5310 C-2014	
LCS 180-431710/66	Lab Control Sample	Total/NA	Water	5310 C-2014	

Field Service / Mobile Lab

Analysis Batch: 431326

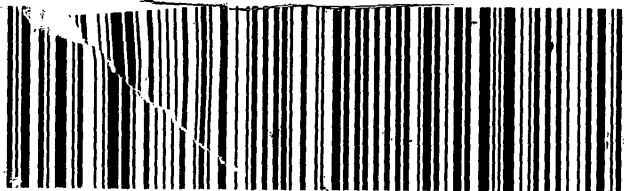
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153449-1	APMW-13	Total/NA	Water	Field Sampling	
180-153449-2	APMW-14	Total/NA	Water	Field Sampling	
180-153449-3	APMW-15	Total/NA	Water	Field Sampling	
180-153449-4	APMW-16	Total/NA	Water	Field Sampling	
180-153449-5	DUP-04	Total/NA	Water	Field Sampling	

Chain of Custody Record

Client Information Client Contact: <i>Phong Nguyen</i> SCS Contacts: <i>850-336-0192</i> Company: SCS		Lab PM: Brown, Shall E-Mail: shall.brown@eurofinset.com		Carrier Tracking No(s):		COC No:							
Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State/Zip: AL, 35243 Phone: 205-992-6283 Email:		Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 18020186 SSOW#:		Analysis Requested 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate Bromide 6020B/470 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, Bicarh 9315_Ra226 Radium 226 9320_Ra228 Radium 228 Combined RAD 2540 Total Suspended Solids		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 X - EDTA Z - other (specify)		Special Instructions/Note: 					
Sample Identification APW-13 APW-14 APW-15 APW-16 Dup-04		Sample Date 3-10-23 3-10-23 3-10-23 3-10-23 3-10-23		Sample Time 1707 1101 0948 0816 1001		Sample Type (C=Comp, G=grab) G G G G G		Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, Asst) W W W W W		Field Filtered Sample (Yes or No) X X X X X		Total Number of Containers 8 8 8 8 8	
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		Date: 3-10-23 1423 Date/Time: 3-10-23 1423		Date/Time: 3/11/23 9:00 Date/Time:		Date/Time:		Date/Time:		Date/Time:		Date/Time:	
Relinquished by: <i>Phong Nguyen</i> Relinquished by:		Relinquished by: <i>ROH BW</i> Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:	
Empty Kit Relinquished by:		Date:		Date:		Date:		Date:		Date:		Date:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:	



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- 13



XO AGCA

PA-US
PIT
15238

SATURDAY 12:00P
PRIORITY OVERNIGHT
AHS

0201

MPS# 3956 0803 9966
MPS# 3956 0803 9966
Matr# 3956 0803 9966

2 of 2



Uncorrected temp 2.4 °C
Thermometer ID 18
Initials MC
CF 101

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

PITTSBURGH PA 15238

301 ALPHA DR

10 EUROFINS TESTAMERICA PITTSBURG


ORIGIN ID: BIXA (850) 396-0192
TESTAMERICA PITTSBURGH LAB
SEE CHECKS & BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US
SHIP DATE: 10MAR23
ACTWGT: 66.35 LB
CAD: 6993799/SSFE2401
DIMS: 24x13x14 IN
BILL THIRD PARTY

156297-435944859-EXP 12/23



180-153449 Waybill

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




2.5 °C
20
30

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

CF-0.3
Initials

Thermometer ID

Uncorrected temp



XO AGCA

TRK# 3956 0803 9955
1 of 2

0201

MASTER

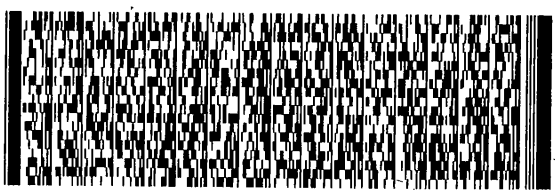
SATURDAY 12:00P

PRIORITY OVERNIGHT

AHS

15238

PA-US P11



FedEx Express

10 EUROFINS TESTAMERICA PITTSBURG

301 ALPHA DR

PITTSBURGH PA 15238

REF: (412) 963-7058

DEPT:

SHIP DATE: 10MAR23

ACTWGT: 66.35-LB

CAD: 6993799/SFEE2401

DIMS: 24x13x14 IN

BILL THIRD PARTY

TESTAMERICA PITTSBURGH LAB

SEE CHEERS 5 BEFORE BILL

301 ALPHA DR

PITTSBURGH, PA 15238

UNITED STATES US

Part # 15625-2405-PR1059-EXP 12/23

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-153449-1

Login Number: 153449

List Source: Eurofins 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

PREPARED FOR

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

Generated 4/14/2023 4:37:58 PM

JOB DESCRIPTION

Plant Watson Ash Pond

JOB NUMBER

180-153449-2

Eurofins Pittsburgh

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Pittsburgh and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Pittsburgh Project Manager or designee who has signed this report.

PA Lab ID: 02-00416

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

Authorization



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

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4/14/2023 4:37:58 PM



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions/Glossary	5
Certification Summary	6
Sample Summary	7
Method Summary	8
Lab Chronicle	9
Client Sample Results	11
QC Sample Results	16
QC Association Summary	17
Chain of Custody	18
Receipt Checklists	22

Case Narrative

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

Job ID: 180-153449-2

Job ID: 180-153449-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-153449-2

Receipt

The samples were received on 3/11/2023 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 2 coolers at receipt time were 2.5°C and 2.6°C

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 prep batch 160-604592: 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-13 (180-153449-1), APMW-14 (180-153449-2), APMW-15 (180-153449-3), APMW-16 (180-153449-4), DUP-04 (180-153449-5), (LCS 160-604592/2-A), (MB 160-604592/1-A), (310-251197-E-4-A), (310-251197-E-4-B MS) and (310-251197-E-4-C MSD)

Method 9320_Ra228: Radium-228 prep batch 160-604594: The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interference. During preparation the analyst visually noted matrix effects. The data have been reported with this narrative. APMW-16 (180-153449-4)

Method 9320_Ra228: Radium-228 prep batch 160-604594: 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-13 (180-153449-1), APMW-14 (180-153449-2), APMW-15 (180-153449-3), APMW-16 (180-153449-4), DUP-04 (180-153449-5), (LCS 160-604594/2-A), (MB 160-604594/1-A), (310-251197-E-4-D), (310-251197-E-4-E MS) and (310-251197-E-4-F MSD)

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

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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: 180-153449-2

Qualifiers

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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

Job ID: 180-153449-2

Laboratory: Eurofins St. Louis

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

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

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

Sample Summary

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

Job ID: 180-153449-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-153449-1	APMW-13	Water	03/10/23 12:07	03/11/23 09:00
180-153449-2	APMW-14	Water	03/10/23 11:01	03/11/23 09:00
180-153449-3	APMW-15	Water	03/10/23 09:48	03/11/23 09:00
180-153449-4	APMW-16	Water	03/10/23 08:16	03/11/23 09:00
180-153449-5	DUP-04	Water	03/10/23 10:01	03/11/23 09:00

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Method Summary

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

Job ID: 180-153449-2

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

Protocol References:

None = None

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

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

Laboratory References:

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



Lab Chronicle

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

Job ID: 180-153449-2

Client Sample ID: APMW-13

Lab Sample ID: 180-153449-1

Date Collected: 03/10/23 12:07

Matrix: Water

Date Received: 03/11/23 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			750.69 mL	1.0 g	604592	03/22/23 08:58	DJP	EET SL
Total/NA	Analysis	9315		1			607357	04/13/23 08:50	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			750.69 mL	1.0 g	604594	03/22/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			606892	04/11/23 11:55	SCB	EET SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			607575	04/14/23 17:31	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-14

Lab Sample ID: 180-153449-2

Date Collected: 03/10/23 11:01

Matrix: Water

Date Received: 03/11/23 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			1002.34 mL	1.0 g	604592	03/22/23 08:58	DJP	EET SL
Total/NA	Analysis	9315		1			607357	04/13/23 08:50	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1002.34 mL	1.0 g	604594	03/22/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			606892	04/11/23 11:56	SCB	EET SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			607575	04/14/23 17:31	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-15

Lab Sample ID: 180-153449-3

Date Collected: 03/10/23 09:48

Matrix: Water

Date Received: 03/11/23 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			751.80 mL	1.0 g	604592	03/22/23 08:58	DJP	EET SL
Total/NA	Analysis	9315		1			607357	04/13/23 08:50	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			751.80 mL	1.0 g	604594	03/22/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			606892	04/11/23 11:56	SCB	EET SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			607575	04/14/23 17:31	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-16

Lab Sample ID: 180-153449-4

Date Collected: 03/10/23 08:16

Matrix: Water

Date Received: 03/11/23 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			754.38 mL	1.0 g	604592	03/22/23 08:58	DJP	EET SL
Total/NA	Analysis	9315		1			607357	04/13/23 08:50	SCB	EET SL
Instrument ID: GFPCPURPLE										

Lab Chronicle

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

Job ID: 180-153449-2

Client Sample ID: APMW-16

Lab Sample ID: 180-153449-4

Date Collected: 03/10/23 08:16

Matrix: Water

Date Received: 03/11/23 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_0			754.38 mL	1.0 g	604594	03/22/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			606892	04/11/23 11:56	SCB	EET SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			607575	04/14/23 17:31	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-04

Lab Sample ID: 180-153449-5

Date Collected: 03/10/23 10:01

Matrix: Water

Date Received: 03/11/23 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			992.76 mL	1.0 g	604592	03/22/23 08:58	DJP	EET SL
Total/NA	Analysis	9315		1	1.0 mL	1.0 mL	607357	04/13/23 08:51	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			992.76 mL	1.0 g	604594	03/22/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1	1.0 mL	1.0 mL	606892	04/11/23 11:56	SCB	EET SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			607575	04/14/23 17:31	MLK	EET SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: EET SL

Batch Type: Prep

DJP = Dalton Pieper

Batch Type: Analysis

MLK = Micha Korrinhizer

SCB = Sarah Bernsen

Client Sample Results

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

Job ID: 180-153449-2

Client Sample ID: APMW-13

Lab Sample ID: 180-153449-1

Date Collected: 03/10/23 12:07

Matrix: Water

Date Received: 03/11/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.79		0.420	0.450	1.00	0.331	pCi/L	03/22/23 08:58	04/13/23 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.7		30 - 110					03/22/23 08:58	04/13/23 08:50	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.45		0.612	0.627	1.00	0.802	pCi/L	03/22/23 09:25	04/11/23 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.7		30 - 110					03/22/23 09:25	04/11/23 11:55	1
Y Carrier	89.7		30 - 110					03/22/23 09:25	04/11/23 11:55	1

Method: TAL-STL 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	3.24		0.742	0.772	5.00	0.802	pCi/L		04/14/23 17:31	1

Client Sample Results

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

Job ID: 180-153449-2

Client Sample ID: APMW-14

Lab Sample ID: 180-153449-2

Date Collected: 03/10/23 11:01

Matrix: Water

Date Received: 03/11/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.42		0.355	0.416	1.00	0.197	pCi/L	03/22/23 08:58	04/13/23 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		30 - 110					03/22/23 08:58	04/13/23 08:50	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.52		0.546	0.593	1.00	0.503	pCi/L	03/22/23 09:25	04/11/23 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.3		30 - 110					03/22/23 09:25	04/11/23 11:56	1
Y Carrier	78.1		30 - 110					03/22/23 09:25	04/11/23 11:56	1

Method: TAL-STL 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	4.94		0.651	0.724	5.00	0.503	pCi/L		04/14/23 17:31	1

Client Sample Results

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

Job ID: 180-153449-2

Client Sample ID: APMW-15

Lab Sample ID: 180-153449-3

Date Collected: 03/10/23 09:48

Matrix: Water

Date Received: 03/11/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.764		0.273	0.282	1.00	0.281	pCi/L	03/22/23 08:58	04/13/23 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.4		30 - 110					03/22/23 08:58	04/13/23 08:50	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.826		0.459	0.466	1.00	0.649	pCi/L	03/22/23 09:25	04/11/23 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.4		30 - 110					03/22/23 09:25	04/11/23 11:56	1
Y Carrier	89.0		30 - 110					03/22/23 09:25	04/11/23 11:56	1

Method: TAL-STL 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	1.59		0.534	0.545	5.00	0.649	pCi/L		04/14/23 17:31	1

Client Sample Results

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

Job ID: 180-153449-2

Client Sample ID: APMW-16

Lab Sample ID: 180-153449-4

Date Collected: 03/10/23 08:16

Matrix: Water

Date Received: 03/11/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.663		0.367	0.372	1.00	0.494	pCi/L	03/22/23 08:58	04/13/23 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	55.2		30 - 110					03/22/23 08:58	04/13/23 08:50	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0592	U G	0.560	0.560	1.00	1.03	pCi/L	03/22/23 09:25	04/11/23 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	55.2		30 - 110					03/22/23 09:25	04/11/23 11:56	1
Y Carrier	93.1		30 - 110					03/22/23 09:25	04/11/23 11:56	1

Method: TAL-STL 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	0.722	U	0.670	0.672	5.00	1.03	pCi/L		04/14/23 17:31	1

Client Sample Results

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

Job ID: 180-153449-2

Client Sample ID: DUP-04

Lab Sample ID: 180-153449-5

Date Collected: 03/10/23 10:01

Matrix: Water

Date Received: 03/11/23 09:00

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.16		0.377	0.424	1.00	0.233	pCi/L	03/22/23 08:58	04/13/23 08:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.7		30 - 110					03/22/23 08:58	04/13/23 08:51	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.38		0.623	0.696	1.00	0.512	pCi/L	03/22/23 09:25	04/11/23 11:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.7		30 - 110					03/22/23 09:25	04/11/23 11:56	1
Y Carrier	88.2		30 - 110					03/22/23 09:25	04/11/23 11:56	1

Method: TAL-STL 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	5.54		0.728	0.815	5.00	0.512	pCi/L		04/14/23 17:31	1

QC Sample Results

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

Job ID: 180-153449-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-604592/1-A
Matrix: Water
Analysis Batch: 607358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604592

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.01963	U	0.0733	0.0734	1.00	0.171	pCi/L	03/22/23 08:58	04/13/23 08:44	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	95.9		30 - 110		03/22/23 08:58	04/13/23 08:44	1			

Lab Sample ID: LCS 160-604592/2-A
Matrix: Water
Analysis Batch: 607358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604592

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.84		1.23	1.00	0.176	pCi/L	96	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	97.7		30 - 110						

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-604594/1-A
Matrix: Water
Analysis Batch: 606896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604594

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2702	U	0.293	0.294	1.00	0.476	pCi/L	03/22/23 09:25	04/11/23 12:19	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	95.9		30 - 110		03/22/23 09:25	04/11/23 12:19	1			
Y Carrier	86.0		30 - 110		03/22/23 09:25	04/11/23 12:19	1			

Lab Sample ID: LCS 160-604594/2-A
Matrix: Water
Analysis Batch: 606896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604594

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.04	7.282		1.03	1.00	0.446	pCi/L	91	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	97.7		30 - 110						
Y Carrier	95.0		30 - 110						

QC Association Summary

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

Job ID: 180-153449-2

Rad

Prep Batch: 604592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153449-1	APMW-13	Total/NA	Water	PrecSep-21	
180-153449-2	APMW-14	Total/NA	Water	PrecSep-21	
180-153449-3	APMW-15	Total/NA	Water	PrecSep-21	
180-153449-4	APMW-16	Total/NA	Water	PrecSep-21	
180-153449-5	DUP-04	Total/NA	Water	PrecSep-21	
MB 160-604592/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-604592/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 604594

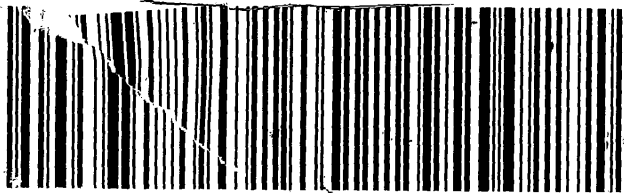
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153449-1	APMW-13	Total/NA	Water	PrecSep_0	
180-153449-2	APMW-14	Total/NA	Water	PrecSep_0	
180-153449-3	APMW-15	Total/NA	Water	PrecSep_0	
180-153449-4	APMW-16	Total/NA	Water	PrecSep_0	
180-153449-5	DUP-04	Total/NA	Water	PrecSep_0	
MB 160-604594/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-604594/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Chain of Custody Record

Client Information Client Contact: <i>Phong Nguyen</i> SCS Contacts: <i>850-336-0192</i> Company: SCS		Lab PM: Brown, Shall E-Mail: shall.brown@eurofinset.com		Carrier Tracking No(s):		COC No: Page: Job #:	
Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State/Zip: AL, 35243 Phone: 205-992-6283 Email:		Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 18020186 SSOW#:		Analysis Requested			
SCS Contacts: Plant Watson Site:		Matrix (W=water, S=solid, O=wasteoil, BT=tissue, As=air) Sample Type (C=comp, G=grab) Sample Time:		Preservation Code: Sample Date:		Field Filtered Sample (Yes or No)	
Sample Identification: <i>APMW-13</i> <i>APMW-14</i> <i>APMW-15</i> <i>APMW-16</i> <i>DUP-04</i>		Sample Time: <i>3-10-23 1707 G</i> <i>3-10-23 1101 G</i> <i>3-10-23 0948 G</i> <i>3-10-23 0816 G</i> <i>3-10-23 1001 G</i>		Preservation Code: <i>W</i> <i>W</i> <i>W</i> <i>W</i> <i>W</i>		Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/>	
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		Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		Date:	
Relinquished by: <i>[Signature]</i>		Date/Time: <i>3-10-23 1423</i>		Relinquished by: <i>[Signature]</i>		Date/Time:	
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:		Received by: <i>[Signature]</i> Date/Time: <i>3/11/23 9:00</i> Company: <i>ESPTIME</i>	



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PA-US
PIT
15238

XO AGCA

AHS
SATURDAY 12:00P
PRIORITY OVERNIGHT

0201

MPS# 3956 0803 9966
2 of 2
MPS# 3956 0803 9966



PT-WI-SR-001 effective 11/8/18
CF 101 Initials
Thermometer ID
Uncorrected temp
2.4 °C
18

PITTSBURGH PA 15238

301 ALPHA DR

10 EUROFINS TESTAMERICA PITTSBURG


SHIP DATE: 10MAR23
ACTWGT: 66.35 LB
CAD: 6993799/SSFE2401
DIMS: 24x13x14 IN
BILL THIRD PARTY
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US
ORIGIN ID: BIXA (850) 396-0192

156297-435944859-EXP 12/23



180-153449 Waybill

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2.5 °C
20
30

PT-MI-SR-001 effective 1/8/18

CF-0.3 Initials

Thermometer ID

Uncorrected temp



XO AGCA

1 of 2

TRK# 3956 0803 9955

0201

MASTER


SATURDAY 12:00P

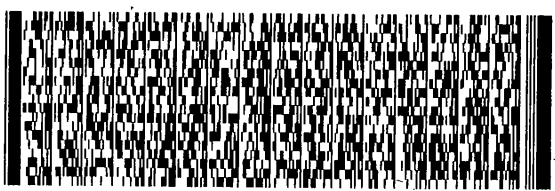
PRIORITY OVERNIGHT

AHS

15238

PA-US P11





10 EUROFINS TESTAMERICA PITTSBURG

301 ALPHA DR

PITTSBURGH PA 15238

(412) 963-7058

REF: DEPT: INVT: PO:

ORIGIN ID: B1XA (850) 336-0192

TESTAMERICA PITTSBURGH LAB

SEE CHEERS 5 BEFORE BILL

301 ALPHA DR

PITTSBURGH, PA 15238

UNITED STATES US

SHIP DATE: 10MAR23

ACTWGT: 66.35 LB

CAD: 6993799/SFEE2401

DIMS: 24x13x14 IN

BILL THIRD PARTY

Part # 15625-2405-PR1059-EXP 12/23

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM	Carrier Tracking No(s)	COC No.								
Client Contact: Shipping/Receiving		Brown, Shail		180-482170-1								
Company: TestAmerica Laboratories, Inc.		E-Mail: Shail.Brown@et.eurofins.com	State of Origin: Georgia	Page: 1 of 1								
Address: 13715 Rider Trail North, Earth City, MO, 63045		Accreditations Required (See note):										
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Job #: 180-153449-2										
Email:		Preservation Codes:										
Project Name: Plant Watson Ash Pond		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:										
Site:		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 Y - Trizma Z - other (specify)										
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewat, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	920_Ra228/PreSep_0 Radium 228	9315_Ra226/PreSep_21 Radium 226	Ra226Ra228 GFPC/ Combined Radium-226 and Radium-228	Total Number of Containers	Special Instructions/Note:
APMW-13 (180-153449-1)	3/10/23	12:07 Eastern		Water		X	X	X	X		2	
APMW-14 (180-153449-2)	3/10/23	11:01 Eastern		Water		X	X	X	X		2	
APMW-15 (180-153449-3)	3/10/23	09:48 Eastern		Water		X	X	X	X		2	
APMW-16 (180-153449-4)	3/10/23	08:16 Eastern		Water		X	X	X	X		2	
DUP-04 (180-153449-5)	3/10/23	10:01 Eastern		Water		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 our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.</p>												
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</p> <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><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>Empty Kit Relinquished by:</p> <p>Relinquished by: <i>Shail Brown</i> Date: 3-13-23 18:00</p> <p>Relinquished by: <i>Shail Brown</i> Date: 3-13-23 18:00</p> <p>Relinquished by: <i>Shail Brown</i> Date: 3-13-23 18:00</p> <p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Cooler Temperature(s) °C and Other Remarks:</p>												



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-153449-2

Login Number: 153449

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	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-153449-2

Login Number: 153449

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 03/14/23 11:28 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

PREPARED FOR

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

Generated 5/24/2023 1:47:50 PM Revision 1

JOB DESCRIPTION

Plant Watson Ash Pond

JOB NUMBER

180-153507-1

Eurofins Pittsburgh

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Pittsburgh and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Pittsburgh Project Manager or designee who has signed this report.

PA Lab ID: 02-00416

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

Authorization



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

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5/24/2023 1:47:50 PM
Revision 1



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions/Glossary	6
Certification Summary	7
Sample Summary	8
Method Summary	9
Lab Chronicle	10
Client Sample Results	14
QC Sample Results	20
QC Association Summary	28
Chain of Custody	32
Receipt Checklists	40

Case Narrative

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

Job ID: 180-153507-1

Job ID: 180-153507-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-153507-1

Comments

052423 Revised report at client request to remove the following sample because it was collected and reported in a previous report:: APMW-1R (180-153507-3). This report replaces the report previously issued on 052223.

Receipt

The samples were received on 3/14/2023 10:25 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.4° C, 2.4° C, 2.5° C and 3.1° C.

Receipt Exceptions

The container label for one out of three TOC containers for the following sample did not match the information listed on the Chain-of-Custody (COC): APMW-10D (180-153507-4). The container labels list a sample id of APMW-1R, while the COC lists APMW-10D. The vial was put in the box with a do not use sticker.

GC Semi VOA

Methods 300.0, 9056A: The following sample was diluted due to the nature of the sample matrix: DUP-05 (180-153507-5). Elevated reporting limits (RLs) are provided.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-430844 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: APMW-9 (180-153507-1). Elevated reporting limits (RLs) are provided.

Method 300.0: The following sample was diluted due to the nature of the sample matrix: APMW-10 (180-153507-2). Elevated reporting limits (RLs) are provided. Dilutions based on conductivity results of sample.

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

Metals

Method 6020B: The laboratory control sample (LCS) for preparation batch 180-431559 and analytical batch 180-433426 recovered outside control limits for the following analytes: Selenium and Beryllium. The analytes was biased high in the LCS and was less than RL in the associated samples; therefore, the data have been reported.

Method 6020B: The following samples were diluted to bring the concentration of several analytes to within the instrument's linear range as well as for the matrix of the sample after digestion: APMW-9 (180-153507-1), APMW-10D (180-153507-4), DUP-05 (180-153507-5), EB-02 (180-153507-6), FB-02 (180-153507-7), (180-153507-E-4-C MS ^10), (180-153507-E-4-D MSD ^10), (180-153507-E-4-B PDS ^10) and (180-153507-E-4-B SD ^50). Elevated reporting limits (RLs) are provided.

Method 6020B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-431559 and analytical batch 180-433869 were outside the control limits for calcium and sodium, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 6020B: The post digestion spike % recovery for many analytes associated with batch 180-433869 was outside the control limits. The associated sample is: APMW-10D (180-153507-4).

Method 6020B: The initial low level continuing calibration verification (ICVL) failed high (122%) for silicon for sample FB-02 (180-153507-7). The results have been qualified.

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

Field Service / Mobile Lab

Case Narrative

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

Job ID: 180-153507-1

Job ID: 180-153507-1 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

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

General Chemistry

Methods 9060A, SM 5310C: The continuing calibration verification (CCV) associated with batch 180-431142 recovered above the upper control limit for Total Organic Carbon - Quad. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. APMW-10D (180-153507-4), EB-02 (180-153507-6) and FB-02 (180-153507-7)

Methods 9060A, SM 5310C: The laboratory control sample (LCS) for analytical batch 180-431142 recovered outside control limits for the following analytes: Total Organic Carbon - Quad. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. APMW-10D (180-153507-4), EB-02 (180-153507-6) and FB-02 (180-153507-7)

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: 180-153507-1

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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

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: 180-153507-1

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	06-27-23
California	State	2891	04-30-24
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-24
Illinois	NELAP	004375	06-30-24
Kansas	NELAP	E-10350	01-31-24
Kentucky (UST)	State	162013	04-30-23 *
Kentucky (WW)	State	KY98043	12-31-23
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-23
New Hampshire	NELAP	2030	04-04-24
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-01-24
North Carolina (WW/SW)	State	434	12-31-23
North Dakota	State	R-227	04-30-23 *
Oregon	NELAP	PA-2151	02-06-24
Pennsylvania	NELAP	02-00416	04-30-24
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-23 *
Texas	NELAP	T104704528	03-31-24
US Fish & Wildlife	US Federal Programs	058448	03-31-24
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-31-23
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	03-31-24
Wisconsin	State	998027800	08-31-23

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

Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-153507-1	APMW-9	Water	03/13/23 09:33	03/14/23 10:25
180-153507-2	APMW-10	Water	03/13/23 11:03	03/14/23 10:25
180-153507-4	APMW-10D	Water	03/13/23 13:47	03/15/23 09:50
180-153507-5	DUP-05	Water	03/13/23 15:41	03/15/23 09:50
180-153507-6	EB-02	Water	03/13/23 11:48	03/15/23 09:50
180-153507-7	FB-02	Water	03/13/23 11:57	03/15/23 09:50

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Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET PIT
EPA 6020B	Metals (ICP/MS)	SW846	EET PIT
EPA 7470A	Mercury (CVAA)	SW846	EET PIT
5310 C-2014	Total Organic Carbon/Persulfate - Ultrav	SM	EET PIT
EPA 353.2	Nitrogen, Nitrate-Nitrite	EPA	EET PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PIT
SM2320 B	Alkalinity, Total	SM18	EET PIT
Field Sampling	Field Sampling	EPA	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
7470A	Preparation, Mercury	SW846	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

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:

EET 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: 180-153507-1

Client Sample ID: APMW-9
Date Collected: 03/13/23 09:33
Date Received: 03/14/23 10:25

Lab Sample ID: 180-153507-1
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	1 mL	1 mL	430844	03/30/23 17:50	M1D	EET PIT
	Instrument ID: INTEGRION									
Total/NA	Analysis	300.0		10	1 mL	1 mL	430844	03/30/23 18:08	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	431559	04/06/23 11:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433426	04/25/23 22:34	DSH	EET PIT
	Instrument ID: NEMO									
Total Recoverable	Prep	3005A			25 mL	25 mL	431559	04/06/23 11:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		10			433538	04/26/23 23:17	DSH	EET PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	430169	03/23/23 10:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			430328	03/24/23 12:17	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	431710	04/06/23 02:45	LWM	EET PIT
	Instrument ID: TOC1030									
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	430333	03/24/23 10:46	SNR	EET PIT
	Instrument ID: ASTORIA2									
Total/NA	Analysis	SM 2540C		1	15 mL	100 mL	429764	03/20/23 13:16	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			429914	03/21/23 13:06	MAM	EET PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			431326	03/13/23 09:33	FDS	EET PIT
	Instrument ID: NOEQUIP									

Client Sample ID: APMW-10
Date Collected: 03/13/23 11:03
Date Received: 03/14/23 10:25

Lab Sample ID: 180-153507-2
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	300.0		2.5	1 mL	1 mL	430844	03/30/23 20:36	M1D	EET PIT
	Instrument ID: INTEGRION									
Total Recoverable	Prep	3005A			25 mL	25 mL	431559	04/06/23 11:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433426	04/25/23 22:52	DSH	EET PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	430169	03/23/23 10:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			430328	03/24/23 12:24	RJR	EET PIT
	Instrument ID: HGZ									
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	431710	04/06/23 03:09	LWM	EET PIT
	Instrument ID: TOC1030									
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	430333	03/24/23 10:48	SNR	EET PIT
	Instrument ID: ASTORIA2									
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	429764	03/20/23 13:16	LWM	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			429914	03/21/23 13:12	MAM	EET PIT
	Instrument ID: PCTITRATOR									

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

Client Sample ID: APMW-10

Lab Sample ID: 180-153507-2

Date Collected: 03/13/23 11:03

Matrix: Water

Date Received: 03/14/23 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			431326	03/13/23 11:03	FDS	EET PIT

Client Sample ID: APMW-10D

Lab Sample ID: 180-153507-4

Date Collected: 03/13/23 13:47

Matrix: Water

Date Received: 03/15/23 09:50

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	1 mL	1 mL	430915	03/31/23 18:48	SNL	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	431559	04/06/23 11:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			435374	05/16/23 17:09	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	431559	04/06/23 11:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: DORY		1			433869	04/29/23 00:39	RJR	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	431559	04/06/23 11:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		10			433538	04/26/23 23:26	DSH	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	430169	03/23/23 10:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			430328	03/24/23 12:26	RJR	EET PIT
Total/NA	Analysis	5310 C-2014 Instrument ID: SAM		1	40 mL	40 mL	431142	04/02/23 09:14	LWM	EET PIT
Total/NA	Analysis	EPA 353.2 Instrument ID: ASTORIA2		1	10 mL	10 mL	430333	03/24/23 10:51	SNR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	429764	03/20/23 13:16	LWM	EET PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			429914	03/21/23 13:28	MAM	EET PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			431326	03/13/23 13:47	FDS	EET PIT

Client Sample ID: DUP-05

Lab Sample ID: 180-153507-5

Date Collected: 03/13/23 15:41

Matrix: Water

Date Received: 03/15/23 09:50

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	1 mL	1 mL	430915	03/31/23 18:20	SNL	EET PIT
Total/NA	Analysis	300.0 Instrument ID: CHIC2100A		5	1 mL	1 mL	430915	03/31/23 18:34	SNL	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	431559	04/06/23 11:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: DORY		1			433869	04/29/23 01:04	RJR	EET PIT

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

Client Sample ID: DUP-05
Date Collected: 03/13/23 15:41
Date Received: 03/15/23 09:50

Lab Sample ID: 180-153507-5
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			25 mL	25 mL	431559	04/06/23 11:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		10			433538	04/26/23 23:47	DSH	EET PIT
		Instrument ID: NEMO								
Total/NA	Prep	7470A			25 mL	25 mL	430169	03/23/23 10:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			430328	03/24/23 12:27	RJR	EET PIT
		Instrument ID: HGZ								
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	431710	04/06/23 03:58	LWM	EET PIT
		Instrument ID: TOC1030								
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	430333	03/24/23 10:53	SNR	EET PIT
		Instrument ID: ASTORIA2								
Total/NA	Analysis	SM 2540C		1	20 mL	100 mL	429764	03/20/23 13:16	LWM	EET PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			429914	03/21/23 13:34	MAM	EET PIT
		Instrument ID: PCTITRATOR								
Total/NA	Analysis	Field Sampling		1			431326	03/13/23 15:41	FDS	EET PIT
		Instrument ID: NOEQUIP								

Client Sample ID: EB-02
Date Collected: 03/13/23 11:48
Date Received: 03/15/23 09:50

Lab Sample ID: 180-153507-6
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	1 mL	1 mL	430915	03/31/23 19:02	SNL	EET PIT
		Instrument ID: CHIC2100A								
Total Recoverable	Prep	3005A			25 mL	25 mL	431559	04/06/23 11:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			435374	05/16/23 17:26	RJR	EET PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			25 mL	25 mL	431559	04/06/23 11:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433869	04/29/23 01:12	RJR	EET PIT
		Instrument ID: DORY								
Total/NA	Prep	7470A			25 mL	25 mL	430169	03/23/23 10:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			430328	03/24/23 12:28	RJR	EET PIT
		Instrument ID: HGZ								
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	431142	04/02/23 09:37	LWM	EET PIT
		Instrument ID: SAM								
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	430333	03/24/23 10:54	SNR	EET PIT
		Instrument ID: ASTORIA2								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	429764	03/20/23 13:16	LWM	EET PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			429914	03/21/23 13:41	MAM	EET PIT
		Instrument ID: PCTITRATOR								

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

Client Sample ID: FB-02

Lab Sample ID: 180-153507-7

Date Collected: 03/13/23 11:57

Matrix: Water

Date Received: 03/15/23 09:50

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	1 mL	1 mL	430944	03/31/23 14:49	M1D	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	431559	04/06/23 11:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			435707	05/19/23 10:23	RJR	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	431559	04/06/23 11:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433869	04/29/23 01:15	RJR	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	430169	03/23/23 10:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			430328	03/24/23 12:29	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	431142	04/02/23 11:43	LWM	EET PIT
Instrument ID: SAM										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	430333	03/24/23 11:04	SNR	EET PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	429764	03/20/23 13:16	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			429914	03/21/23 14:10	MAM	EET PIT
Instrument ID: PCTITRATOR										

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: EET PIT

Batch Type: Prep

HCY = Harrison Yaeger

RJR = Ron Rosenbaum

Batch Type: Analysis

DSH = David Heakin

FDS = Sampler Field

LWM = Leslie McIntire

M1D = Maureen Donlin

MAM = Matthew Martin

RJR = Ron Rosenbaum

SNL = Sean Lordo

SNR = Sabra Richart

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

Client Sample ID: APMW-9

Lab Sample ID: 180-153507-1

Date Collected: 03/13/23 09:33

Matrix: Water

Date Received: 03/14/23 10:25

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	12		0.10	0.053	mg/L			03/30/23 17:50	1
Chloride	2900		10	7.1	mg/L			03/30/23 18:08	10
Fluoride	0.081	J	0.20	0.026	mg/L			03/30/23 17:50	1
Sulfate	250		1.0	0.76	mg/L			03/30/23 17:50	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.061		0.030	0.016	mg/L		04/06/23 11:20	04/25/23 22:34	1
Antimony	<0.00097		0.0020	0.00097	mg/L		04/06/23 11:20	04/25/23 22:34	1
Arsenic	0.0014		0.0010	0.00028	mg/L		04/06/23 11:20	04/25/23 22:34	1
Barium	0.55		0.010	0.0031	mg/L		04/06/23 11:20	04/25/23 22:34	1
Beryllium	0.00027	J**	0.0025	0.00027	mg/L		04/06/23 11:20	04/25/23 22:34	1
Boron	6.2		0.80	0.60	mg/L		04/06/23 11:20	04/26/23 23:17	10
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/06/23 11:20	04/25/23 22:34	1
Calcium	300		0.50	0.13	mg/L		04/06/23 11:20	04/25/23 22:34	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/06/23 11:20	04/25/23 22:34	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/06/23 11:20	04/25/23 22:34	1
Lead	<0.00038		0.0010	0.00038	mg/L		04/06/23 11:20	04/25/23 22:34	1
Lithium	0.0053	B	0.0050	0.0013	mg/L		04/06/23 11:20	04/25/23 22:34	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/06/23 11:20	04/25/23 22:34	1
Selenium	0.0012	J**	0.0050	0.00074	mg/L		04/06/23 11:20	04/25/23 22:34	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/06/23 11:20	04/25/23 22:34	1
Iron	39		0.050	0.028	mg/L		04/06/23 11:20	04/25/23 22:34	1
Potassium	66		0.50	0.16	mg/L		04/06/23 11:20	04/25/23 22:34	1
Magnesium	92		0.50	0.050	mg/L		04/06/23 11:20	04/25/23 22:34	1
Manganese	0.38		0.0050	0.0013	mg/L		04/06/23 11:20	04/25/23 22:34	1
Sodium	1500	B	5.0	1.8	mg/L		04/06/23 11:20	04/26/23 23:17	10
Silicon	4.2		0.50	0.062	mg/L		04/06/23 11:20	04/25/23 22:34	1
Strontium	2.3		0.0050	0.0017	mg/L		04/06/23 11:20	04/25/23 22:34	1
SiO2, Silica	8.9		1.1	0.15	mg/L		04/06/23 11:20	04/25/23 22:34	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/23/23 10:27	03/24/23 12:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	3.2		1.0	0.51	mg/L			04/06/23 02:45	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/24/23 10:46	1
Total Dissolved Solids (SM 2540C)	6000		67	67	mg/L			03/20/23 13:16	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	210		5.0	5.0	mg/L			03/21/23 13:06	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	210		5.0	5.0	mg/L			03/21/23 13:06	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/21/23 13:06	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.22				SU			03/13/23 09:33	1

Eurofins Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

Client Sample ID: APMW-10

Lab Sample ID: 180-153507-2

Date Collected: 03/13/23 11:03

Matrix: Water

Date Received: 03/14/23 10:25

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	2.2		0.25	0.13	mg/L			03/30/23 20:36	2.5
Chloride	620		2.5	1.8	mg/L			03/30/23 20:36	2.5
Fluoride	0.87		0.50	0.065	mg/L			03/30/23 20:36	2.5
Sulfate	2.5		2.5	1.9	mg/L			03/30/23 20:36	2.5

Method: SW846 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		04/06/23 11:20	04/25/23 22:52	1
Antimony	<0.00097		0.0020	0.00097	mg/L		04/06/23 11:20	04/25/23 22:52	1
Arsenic	0.032		0.0010	0.00028	mg/L		04/06/23 11:20	04/25/23 22:52	1
Barium	0.38		0.010	0.0031	mg/L		04/06/23 11:20	04/25/23 22:52	1
Beryllium	<0.00027	*+	0.0025	0.00027	mg/L		04/06/23 11:20	04/25/23 22:52	1
Boron	2.1		0.080	0.060	mg/L		04/06/23 11:20	04/25/23 22:52	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/06/23 11:20	04/25/23 22:52	1
Calcium	46		0.50	0.13	mg/L		04/06/23 11:20	04/25/23 22:52	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/06/23 11:20	04/25/23 22:52	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/06/23 11:20	04/25/23 22:52	1
Lead	<0.00038		0.0010	0.00038	mg/L		04/06/23 11:20	04/25/23 22:52	1
Lithium	0.010	B	0.0050	0.0013	mg/L		04/06/23 11:20	04/25/23 22:52	1
Molybdenum	0.033		0.015	0.00061	mg/L		04/06/23 11:20	04/25/23 22:52	1
Selenium	<0.00074	*+	0.0050	0.00074	mg/L		04/06/23 11:20	04/25/23 22:52	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/06/23 11:20	04/25/23 22:52	1
Iron	6.6		0.050	0.028	mg/L		04/06/23 11:20	04/25/23 22:52	1
Potassium	24		0.50	0.16	mg/L		04/06/23 11:20	04/25/23 22:52	1
Magnesium	38		0.50	0.050	mg/L		04/06/23 11:20	04/25/23 22:52	1
Manganese	0.090		0.0050	0.0013	mg/L		04/06/23 11:20	04/25/23 22:52	1
Sodium	530	B	0.50	0.18	mg/L		04/06/23 11:20	04/25/23 22:52	1
Silicon	7.3		0.50	0.062	mg/L		04/06/23 11:20	04/25/23 22:52	1
Strontium	0.44		0.0050	0.0017	mg/L		04/06/23 11:20	04/25/23 22:52	1
SiO2, Silica	16		1.1	0.15	mg/L		04/06/23 11:20	04/25/23 22:52	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/23/23 10:27	03/24/23 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	6.7		1.0	0.51	mg/L			04/06/23 03:09	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/24/23 10:48	1
Total Dissolved Solids (SM 2540C)	1500		20	20	mg/L			03/20/23 13:16	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	510		5.0	5.0	mg/L			03/21/23 13:12	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	510		5.0	5.0	mg/L			03/21/23 13:12	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/21/23 13:12	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.97				SU			03/13/23 11:03	1

Eurofins Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

Client Sample ID: APMW-10D

Lab Sample ID: 180-153507-4

Date Collected: 03/13/23 13:47

Matrix: Water

Date Received: 03/15/23 09:50

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.10		0.10	0.053	mg/L			03/31/23 18:48	1
Chloride	5.0		1.0	0.71	mg/L			03/31/23 18:48	1
Fluoride	0.19	J	0.20	0.026	mg/L			03/31/23 18:48	1
Sulfate	5.3		1.0	0.76	mg/L			03/31/23 18:48	1

Method: SW846 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		04/06/23 11:20	04/29/23 00:39	1
Antimony	<0.00097		0.0020	0.00097	mg/L		04/06/23 11:20	04/29/23 00:39	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		04/06/23 11:20	04/29/23 00:39	1
Barium	<0.0031		0.010	0.0031	mg/L		04/06/23 11:20	04/29/23 00:39	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/06/23 11:20	04/29/23 00:39	1
Boron	0.11		0.080	0.060	mg/L		04/06/23 11:20	05/16/23 17:09	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/06/23 11:20	04/29/23 00:39	1
Calcium	<0.13	F1	0.50	0.13	mg/L		04/06/23 11:20	04/29/23 00:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/06/23 11:20	04/29/23 00:39	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/06/23 11:20	04/29/23 00:39	1
Lead	<0.00038		0.0010	0.00038	mg/L		04/06/23 11:20	04/29/23 00:39	1
Lithium	<0.0013		0.0050	0.0013	mg/L		04/06/23 11:20	04/29/23 00:39	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/06/23 11:20	04/29/23 00:39	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/06/23 11:20	04/29/23 00:39	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/06/23 11:20	04/29/23 00:39	1
Iron	<0.028		0.050	0.028	mg/L		04/06/23 11:20	04/29/23 00:39	1
Potassium	<0.16		0.50	0.16	mg/L		04/06/23 11:20	04/29/23 00:39	1
Magnesium	0.057	J	0.50	0.050	mg/L		04/06/23 11:20	04/29/23 00:39	1
Manganese	0.0015	J	0.0050	0.0013	mg/L		04/06/23 11:20	04/29/23 00:39	1
Sodium	1.4	F1	0.50	0.18	mg/L		04/06/23 11:20	04/29/23 00:39	1
Silicon	7.8		5.0	0.62	mg/L		04/06/23 11:20	04/26/23 23:26	10
Strontium	<0.0017		0.0050	0.0017	mg/L		04/06/23 11:20	04/29/23 00:39	1
SiO2, Silica	17		11	1.5	mg/L		04/06/23 11:20	04/26/23 23:26	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/23/23 10:27	03/24/23 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	<0.51	^+ *+	1.0	0.51	mg/L			04/02/23 09:14	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/24/23 10:51	1
Total Dissolved Solids (SM 2540C)	150		10	10	mg/L			03/20/23 13:16	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	120		5.0	5.0	mg/L			03/21/23 13:28	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	120		5.0	5.0	mg/L			03/21/23 13:28	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/21/23 13:28	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.95				SU			03/13/23 13:47	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

Client Sample ID: DUP-05

Lab Sample ID: 180-153507-5

Date Collected: 03/13/23 15:41

Matrix: Water

Date Received: 03/15/23 09:50

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	11		0.10	0.053	mg/L			03/31/23 18:20	1
Chloride	2500		5.0	3.6	mg/L			03/31/23 18:34	5
Fluoride	0.075	J	0.20	0.026	mg/L			03/31/23 18:20	1
Sulfate	5.4		1.0	0.76	mg/L			03/31/23 18:20	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5.5		0.030	0.016	mg/L		04/06/23 11:20	04/29/23 01:04	1
Antimony	0.28		0.0020	0.00097	mg/L		04/06/23 11:20	04/29/23 01:04	1
Arsenic	1.1		0.0010	0.00028	mg/L		04/06/23 11:20	04/29/23 01:04	1
Barium	1.9		0.10	0.031	mg/L		04/06/23 11:20	04/26/23 23:47	10
Beryllium	0.54		0.0025	0.00027	mg/L		04/06/23 11:20	04/29/23 01:04	1
Boron	5.2		0.80	0.60	mg/L		04/06/23 11:20	04/26/23 23:47	10
Cadmium	0.54		0.0025	0.00022	mg/L		04/06/23 11:20	04/29/23 01:04	1
Calcium	200		5.0	1.3	mg/L		04/06/23 11:20	04/26/23 23:47	10
Chromium	0.56		0.0020	0.0015	mg/L		04/06/23 11:20	04/29/23 01:04	1
Cobalt	0.55		0.0025	0.00026	mg/L		04/06/23 11:20	04/29/23 01:04	1
Lead	0.56		0.0010	0.00038	mg/L		04/06/23 11:20	04/29/23 01:04	1
Lithium	0.57	B	0.0050	0.0013	mg/L		04/06/23 11:20	04/29/23 01:04	1
Molybdenum	0.56		0.015	0.00061	mg/L		04/06/23 11:20	04/29/23 01:04	1
Selenium	1.1		0.0050	0.00074	mg/L		04/06/23 11:20	04/29/23 01:04	1
Thallium	1.1		0.0010	0.00047	mg/L		04/06/23 11:20	04/29/23 01:04	1
Iron	85		0.50	0.28	mg/L		04/06/23 11:20	04/26/23 23:47	10
Potassium	57		5.0	1.6	mg/L		04/06/23 11:20	04/26/23 23:47	10
Magnesium	74		5.0	0.50	mg/L		04/06/23 11:20	04/26/23 23:47	10
Manganese	0.57		0.0050	0.0013	mg/L		04/06/23 11:20	04/29/23 01:04	1
Sodium	1300	B	5.0	1.8	mg/L		04/06/23 11:20	04/26/23 23:47	10
Silicon	12		5.0	0.62	mg/L		04/06/23 11:20	04/26/23 23:47	10
Strontium	0.60		0.0050	0.0017	mg/L		04/06/23 11:20	04/29/23 01:04	1
SiO2, Silica	25		11	1.5	mg/L		04/06/23 11:20	04/26/23 23:47	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/23/23 10:27	03/24/23 12:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	6.6		1.0	0.51	mg/L			04/06/23 03:58	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/24/23 10:53	1
Total Dissolved Solids (SM 2540C)	4400		50	50	mg/L			03/20/23 13:16	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	320		5.0	5.0	mg/L			03/21/23 13:34	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	320		5.0	5.0	mg/L			03/21/23 13:34	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/21/23 13:34	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.19				SU			03/13/23 15:41	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

Client Sample ID: EB-02
Date Collected: 03/13/23 11:48
Date Received: 03/15/23 09:50

Lab Sample ID: 180-153507-6
Matrix: Water

Method: EPA 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			03/31/23 19:02	1
Chloride	0.74	J	1.0	0.71	mg/L			03/31/23 19:02	1
Fluoride	<0.026		0.20	0.026	mg/L			03/31/23 19:02	1
Sulfate	0.85	J	1.0	0.76	mg/L			03/31/23 19:02	1

Method: SW846 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		04/06/23 11:20	04/29/23 01:12	1
Antimony	<0.00097		0.0020	0.00097	mg/L		04/06/23 11:20	04/29/23 01:12	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		04/06/23 11:20	04/29/23 01:12	1
Barium	<0.0031		0.010	0.0031	mg/L		04/06/23 11:20	04/29/23 01:12	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/06/23 11:20	04/29/23 01:12	1
Boron	0.12	J	0.080	0.060	mg/L		04/06/23 11:20	05/16/23 17:26	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/06/23 11:20	04/29/23 01:12	1
Calcium	<0.13		0.50	0.13	mg/L		04/06/23 11:20	04/29/23 01:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/06/23 11:20	04/29/23 01:12	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/06/23 11:20	04/29/23 01:12	1
Lead	<0.00038		0.0010	0.00038	mg/L		04/06/23 11:20	04/29/23 01:12	1
Lithium	<0.0013		0.0050	0.0013	mg/L		04/06/23 11:20	04/29/23 01:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/06/23 11:20	04/29/23 01:12	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/06/23 11:20	04/29/23 01:12	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/06/23 11:20	04/29/23 01:12	1
Iron	<0.028		0.050	0.028	mg/L		04/06/23 11:20	04/29/23 01:12	1
Potassium	<0.16		0.50	0.16	mg/L		04/06/23 11:20	04/29/23 01:12	1
Magnesium	<0.050		0.50	0.050	mg/L		04/06/23 11:20	04/29/23 01:12	1
Manganese	<0.0013		0.0050	0.0013	mg/L		04/06/23 11:20	04/29/23 01:12	1
Sodium	<0.18		0.50	0.18	mg/L		04/06/23 11:20	04/29/23 01:12	1
Silicon	0.097	J	0.50	0.062	mg/L		04/06/23 11:20	05/16/23 17:26	1
Strontium	<0.0017		0.0050	0.0017	mg/L		04/06/23 11:20	04/29/23 01:12	1
SiO2, Silica	0.21	J	1.1	0.15	mg/L		04/06/23 11:20	05/16/23 17:26	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/23/23 10:27	03/24/23 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	<0.51	^+ *+	1.0	0.51	mg/L			04/02/23 09:37	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/24/23 10:54	1
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			03/20/23 13:16	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/21/23 13:41	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/21/23 13:41	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/21/23 13:41	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

Client Sample ID: FB-02

Lab Sample ID: 180-153507-7

Date Collected: 03/13/23 11:57

Matrix: Water

Date Received: 03/15/23 09:50

Method: EPA 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			03/31/23 14:49	1
Chloride	<0.71		1.0	0.71	mg/L			03/31/23 14:49	1
Fluoride	<0.026		0.20	0.026	mg/L			03/31/23 14:49	1
Sulfate	<0.76		1.0	0.76	mg/L			03/31/23 14:49	1

Method: SW846 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		04/06/23 11:20	04/29/23 01:15	1
Antimony	<0.00097		0.0020	0.00097	mg/L		04/06/23 11:20	04/29/23 01:15	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		04/06/23 11:20	04/29/23 01:15	1
Barium	<0.0031		0.010	0.0031	mg/L		04/06/23 11:20	04/29/23 01:15	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/06/23 11:20	04/29/23 01:15	1
Boron	<0.060		0.080	0.060	mg/L		04/06/23 11:20	05/19/23 10:23	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/06/23 11:20	04/29/23 01:15	1
Calcium	<0.13		0.50	0.13	mg/L		04/06/23 11:20	04/29/23 01:15	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/06/23 11:20	04/29/23 01:15	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/06/23 11:20	04/29/23 01:15	1
Lead	<0.00038		0.0010	0.00038	mg/L		04/06/23 11:20	04/29/23 01:15	1
Lithium	<0.0013		0.0050	0.0013	mg/L		04/06/23 11:20	04/29/23 01:15	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/06/23 11:20	04/29/23 01:15	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/06/23 11:20	04/29/23 01:15	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/06/23 11:20	04/29/23 01:15	1
Iron	<0.028		0.050	0.028	mg/L		04/06/23 11:20	04/29/23 01:15	1
Potassium	<0.16		0.50	0.16	mg/L		04/06/23 11:20	04/29/23 01:15	1
Magnesium	<0.050		0.50	0.050	mg/L		04/06/23 11:20	04/29/23 01:15	1
Manganese	<0.0013		0.0050	0.0013	mg/L		04/06/23 11:20	04/29/23 01:15	1
Sodium	<0.18		0.50	0.18	mg/L		04/06/23 11:20	04/29/23 01:15	1
Silicon	0.091	J ^1+	0.50	0.062	mg/L		04/06/23 11:20	05/19/23 10:23	1
Strontium	<0.0017		0.0050	0.0017	mg/L		04/06/23 11:20	04/29/23 01:15	1
SiO2, Silica	0.19	J ^1+	1.1	0.15	mg/L		04/06/23 11:20	05/19/23 10:23	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/23/23 10:27	03/24/23 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	<0.51	^+ *+	1.0	0.51	mg/L			04/02/23 11:43	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/24/23 11:04	1
Total Dissolved Solids (SM 2540C)	16		10	10	mg/L			03/20/23 13:16	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/21/23 14:10	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/21/23 14:10	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/21/23 14:10	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-430844/6
Matrix: Water
Analysis Batch: 430844

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			03/30/23 12:48	1
Chloride	<0.71		1.0	0.71	mg/L			03/30/23 12:48	1
Fluoride	<0.026		0.20	0.026	mg/L			03/30/23 12:48	1
Sulfate	<0.76		1.0	0.76	mg/L			03/30/23 12:48	1

Lab Sample ID: LCS 180-430844/7
Matrix: Water
Analysis Batch: 430844

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	10.1		mg/L		101	90 - 110
Chloride	50.0	50.3		mg/L		101	90 - 110
Fluoride	2.50	2.61		mg/L		105	90 - 110
Sulfate	50.0	49.8		mg/L		100	90 - 110

Lab Sample ID: MB 180-430915/6
Matrix: Water
Analysis Batch: 430915

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			03/31/23 11:23	1
Chloride	<0.71		1.0	0.71	mg/L			03/31/23 11:23	1
Fluoride	<0.026		0.20	0.026	mg/L			03/31/23 11:23	1
Sulfate	<0.76		1.0	0.76	mg/L			03/31/23 11:23	1

Lab Sample ID: LCS 180-430915/7
Matrix: Water
Analysis Batch: 430915

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	10.1		mg/L		101	90 - 110
Chloride	50.0	52.3		mg/L		105	90 - 110
Fluoride	2.50	2.71		mg/L		108	90 - 110
Sulfate	50.0	52.0		mg/L		104	90 - 110

Lab Sample ID: MB 180-430944/6
Matrix: Water
Analysis Batch: 430944

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			03/31/23 12:03	1
Chloride	<0.71		1.0	0.71	mg/L			03/31/23 12:03	1
Fluoride	<0.026		0.20	0.026	mg/L			03/31/23 12:03	1
Sulfate	<0.76		1.0	0.76	mg/L			03/31/23 12:03	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 180-430944/7
Matrix: Water
Analysis Batch: 430944

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	10.1		mg/L		101	90 - 110
Chloride	50.0	50.9		mg/L		102	90 - 110
Fluoride	2.50	2.65		mg/L		106	90 - 110
Sulfate	50.0	50.6		mg/L		101	90 - 110

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-431559/1-A
Matrix: Water
Analysis Batch: 433426

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 431559

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/06/23 11:20	04/25/23 22:28	1
Antimony	<0.00097		0.0020	0.00097	mg/L		04/06/23 11:20	04/25/23 22:28	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		04/06/23 11:20	04/25/23 22:28	1
Barium	<0.0031		0.010	0.0031	mg/L		04/06/23 11:20	04/25/23 22:28	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/06/23 11:20	04/25/23 22:28	1
Boron	<0.060		0.080	0.060	mg/L		04/06/23 11:20	04/25/23 22:28	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/06/23 11:20	04/25/23 22:28	1
Calcium	<0.13		0.50	0.13	mg/L		04/06/23 11:20	04/25/23 22:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/06/23 11:20	04/25/23 22:28	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/06/23 11:20	04/25/23 22:28	1
Lead	<0.00038		0.0010	0.00038	mg/L		04/06/23 11:20	04/25/23 22:28	1
Lithium	0.00279	J	0.0050	0.0013	mg/L		04/06/23 11:20	04/25/23 22:28	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/06/23 11:20	04/25/23 22:28	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/06/23 11:20	04/25/23 22:28	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/06/23 11:20	04/25/23 22:28	1
Iron	<0.028		0.050	0.028	mg/L		04/06/23 11:20	04/25/23 22:28	1
Potassium	<0.16		0.50	0.16	mg/L		04/06/23 11:20	04/25/23 22:28	1
Magnesium	<0.050		0.50	0.050	mg/L		04/06/23 11:20	04/25/23 22:28	1
Manganese	<0.0013		0.0050	0.0013	mg/L		04/06/23 11:20	04/25/23 22:28	1
Sodium	0.243	J	0.50	0.18	mg/L		04/06/23 11:20	04/25/23 22:28	1
Silicon	<0.062		0.50	0.062	mg/L		04/06/23 11:20	04/25/23 22:28	1
Strontium	<0.0017		0.0050	0.0017	mg/L		04/06/23 11:20	04/25/23 22:28	1
SiO2, Silica	<0.15		1.1	0.15	mg/L		04/06/23 11:20	04/25/23 22:28	1

Lab Sample ID: LCS 180-431559/2-A
Matrix: Water
Analysis Batch: 433426

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 431559

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5.00	5.03		mg/L		101	80 - 120
Antimony	0.250	0.295		mg/L		118	80 - 120
Arsenic	1.00	0.943		mg/L		94	80 - 120
Barium	1.00	1.17		mg/L		117	80 - 120
Boron	1.25	1.26		mg/L		101	80 - 120
Cadmium	0.500	0.554		mg/L		111	80 - 120
Calcium	25.0	29.6		mg/L		118	80 - 120
Chromium	0.500	0.554		mg/L		111	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-431559/2-A
Matrix: Water
Analysis Batch: 433426

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 431559

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.500	0.563		mg/L		113	80 - 120
Lead	0.500	0.555		mg/L		111	80 - 120
Lithium	0.500	0.560		mg/L		112	80 - 120
Molybdenum	0.500	0.540		mg/L		108	80 - 120
Thallium	1.00	1.06		mg/L		106	80 - 120
Iron	5.00	4.89		mg/L		98	80 - 120
Potassium	25.0	25.4		mg/L		102	80 - 120
Magnesium	25.0	27.5		mg/L		110	80 - 120
Manganese	0.500	0.557		mg/L		111	80 - 120
Sodium	25.0	28.5		mg/L		114	80 - 120
Silicon	1.00	0.910		mg/L		91	80 - 120
Strontium	0.500	0.492		mg/L		98	80 - 120
SiO2, Silica	2.14	1.95		mg/L		91	80 - 120

Lab Sample ID: LCS 180-431559/2-A
Matrix: Water
Analysis Batch: 433538

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 431559

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.500	0.569		mg/L		114	80 - 120
Selenium	1.00	1.18		mg/L		118	80 - 120

Lab Sample ID: 180-153507-4 MS
Matrix: Water
Analysis Batch: 433538

Client Sample ID: APMW-10D
Prep Type: Total Recoverable
Prep Batch: 431559

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silicon	7.8		1.00	9.33	4	mg/L		152	75 - 125
SiO2, Silica	17		2.14	20.0	4	mg/L		152	75 - 125

Lab Sample ID: 180-153507-4 MS
Matrix: Water
Analysis Batch: 433869

Client Sample ID: APMW-10D
Prep Type: Total Recoverable
Prep Batch: 431559

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	<0.016		5.00	5.12		mg/L		102	75 - 125
Antimony	<0.00097		0.250	0.266		mg/L		107	75 - 125
Arsenic	<0.00028		1.00	1.04		mg/L		104	75 - 125
Barium	<0.0031		1.00	1.04		mg/L		104	75 - 125
Beryllium	<0.00027		0.500	0.507		mg/L		101	75 - 125
Cadmium	<0.00022		0.500	0.518		mg/L		104	75 - 125
Calcium	<0.13	F1	25.0	31.3		mg/L		125	75 - 125
Chromium	<0.0015		0.500	0.527		mg/L		105	75 - 125
Cobalt	<0.00026		0.500	0.522		mg/L		104	75 - 125
Lead	<0.00038		0.500	0.523		mg/L		105	75 - 125
Lithium	<0.0013		0.500	0.527		mg/L		105	75 - 125
Molybdenum	<0.00061		0.500	0.540		mg/L		108	75 - 125
Selenium	<0.00074		1.00	1.01		mg/L		101	75 - 125
Thallium	<0.00047		1.00	1.04		mg/L		104	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-153507-4 MS
Matrix: Water
Analysis Batch: 433869

Client Sample ID: APMW-10D
Prep Type: Total Recoverable
Prep Batch: 431559

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Iron	<0.028		5.00	5.27		mg/L		105	75 - 125	
Potassium	<0.16		25.0	28.3		mg/L		113	75 - 125	
Magnesium	0.057	J	25.0	26.2		mg/L		104	75 - 125	
Manganese	0.0015	J	0.500	0.539		mg/L		108	75 - 125	
Sodium	1.4	F1	25.0	80.8	F1	mg/L		318	75 - 125	
Strontium	<0.0017		0.500	0.565		mg/L		113	75 - 125	

Lab Sample ID: 180-153507-4 MS
Matrix: Water
Analysis Batch: 435374

Client Sample ID: APMW-10D
Prep Type: Total Recoverable
Prep Batch: 431559

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Boron	0.11		1.25	1.33		mg/L		98	75 - 125	

Lab Sample ID: 180-153507-4 MSD
Matrix: Water
Analysis Batch: 433538

Client Sample ID: APMW-10D
Prep Type: Total Recoverable
Prep Batch: 431559

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Silicon	7.8		1.00	9.36	4	mg/L		155	75 - 125	0	20	
SiO2, Silica	17		2.14	20.0	4	mg/L		155	75 - 125	0	20	

Lab Sample ID: 180-153507-4 MSD
Matrix: Water
Analysis Batch: 433869

Client Sample ID: APMW-10D
Prep Type: Total Recoverable
Prep Batch: 431559

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Aluminum	<0.016		5.00	5.38		mg/L		108	75 - 125	5	20	
Antimony	<0.00097		0.250	0.285		mg/L		114	75 - 125	7	20	
Arsenic	<0.00028		1.00	1.10		mg/L		110	75 - 125	6	20	
Barium	<0.0031		1.00	1.13		mg/L		113	75 - 125	9	20	
Beryllium	<0.00027		0.500	0.535		mg/L		107	75 - 125	5	20	
Cadmium	<0.00022		0.500	0.543		mg/L		109	75 - 125	5	20	
Calcium	<0.13	F1	25.0	33.1	F1	mg/L		133	75 - 125	6	20	
Chromium	<0.0015		0.500	0.551		mg/L		110	75 - 125	5	20	
Cobalt	<0.00026		0.500	0.547		mg/L		109	75 - 125	5	20	
Lead	<0.00038		0.500	0.552		mg/L		110	75 - 125	5	20	
Lithium	<0.0013		0.500	0.554		mg/L		111	75 - 125	5	20	
Molybdenum	<0.00061		0.500	0.555		mg/L		111	75 - 125	3	20	
Selenium	<0.00074		1.00	1.06		mg/L		106	75 - 125	5	20	
Thallium	<0.00047		1.00	1.10		mg/L		110	75 - 125	5	20	
Iron	<0.028		5.00	5.67		mg/L		113	75 - 125	7	20	
Potassium	<0.16		25.0	29.9		mg/L		119	75 - 125	6	20	
Magnesium	0.057	J	25.0	27.6		mg/L		110	75 - 125	5	20	
Manganese	0.0015	J	0.500	0.570		mg/L		114	75 - 125	6	20	
Sodium	1.4	F1	25.0	84.1	F1	mg/L		331	75 - 125	4	20	
Strontium	<0.0017		0.500	0.594		mg/L		119	75 - 125	5	20	

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-153507-4 MSD
Matrix: Water
Analysis Batch: 435374

Client Sample ID: APMW-10D
Prep Type: Total Recoverable
Prep Batch: 431559

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.11		1.25	1.42		mg/L		105	75 - 125	7	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-430169/1-A
Matrix: Water
Analysis Batch: 430328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430169

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/23/23 10:27	03/24/23 12:15	1

Lab Sample ID: LCS 180-430169/2-A
Matrix: Water
Analysis Batch: 430328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00241		mg/L		96	80 - 120

Lab Sample ID: 180-153507-1 MS
Matrix: Water
Analysis Batch: 430328

Client Sample ID: APMW-9
Prep Type: Total/NA
Prep Batch: 430169

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00013		0.00100	0.000929		mg/L		93	75 - 125

Lab Sample ID: 180-153507-1 MSD
Matrix: Water
Analysis Batch: 430328

Client Sample ID: APMW-9
Prep Type: Total/NA
Prep Batch: 430169

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00013		0.00100	0.000897		mg/L		90	75 - 125	4	20

Method: 5310 C-2014 - Total Organic Carbon/Persulfate - Ultrav

Lab Sample ID: MB 180-431142/67
Matrix: Water
Analysis Batch: 431142

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 - Quad	<0.51	^+	1.0	0.51	mg/L			04/02/23 07:12	1

Lab Sample ID: LCS 180-431142/66
Matrix: Water
Analysis Batch: 431142

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 - Quad	20.0	24.3	^+ **	mg/L		121	85 - 115

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

Method: 5310 C-2014 - Total Organic Carbon/Persulfate - Ultrav (Continued)

Lab Sample ID: MB 180-431710/5
Matrix: Water
Analysis Batch: 431710

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 - Quad	<0.51		1.0	0.51	mg/L			04/05/23 16:59	1

Lab Sample ID: LCS 180-431710/4
Matrix: Water
Analysis Batch: 431710

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 - Quad	20.0	19.9		mg/L		100	85 - 115

Method: EPA 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 180-430333/21
Matrix: Water
Analysis Batch: 430333

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			03/24/23 10:07	1

Lab Sample ID: MB 180-430333/56
Matrix: Water
Analysis Batch: 430333

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			03/24/23 11:02	1

Lab Sample ID: LCS 180-430333/20
Matrix: Water
Analysis Batch: 430333

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: LCS 180-430333/52
Matrix: Water
Analysis Batch: 430333

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	1.99		mg/L		100	90 - 110

Lab Sample ID: 180-153507-7 MS
Matrix: Water
Analysis Batch: 430333

Client Sample ID: FB-02
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	2.08		mg/L		104	90 - 110

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

Method: EPA 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 180-153507-7 MSD
Matrix: Water
Analysis Batch: 430333

Client Sample ID: FB-02
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	2.10		mg/L		105	90 - 110	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-429764/1
Matrix: Water
Analysis Batch: 429764

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			03/20/23 13:16	1

Lab Sample ID: LCS 180-429764/2
Matrix: Water
Analysis Batch: 429764

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	665	648		mg/L		97	85 - 115

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-429914/29
Matrix: Water
Analysis Batch: 429914

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			03/21/23 11:47	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/21/23 11:47	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/21/23 11:47	1

Lab Sample ID: MB 180-429914/53
Matrix: Water
Analysis Batch: 429914

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			03/21/23 14:06	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/21/23 14:06	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/21/23 14:06	1

Lab Sample ID: LCS 180-429914/28
Matrix: Water
Analysis Batch: 429914

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	254	264		mg/L		104	90 - 110

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LCS 180-429914/52
Matrix: Water
Analysis Batch: 429914

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	254	266		mg/L		105	90 - 110

Lab Sample ID: LLCS 180-429914/27
Matrix: Water
Analysis Batch: 429914

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	15.2	17.4		mg/L		114	75 - 125

Lab Sample ID: LLCS 180-429914/51
Matrix: Water
Analysis Batch: 429914

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	15.2	16.1		mg/L		106	75 - 125

Lab Sample ID: 180-153507-7 DU
Matrix: Water
Analysis Batch: 429914

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

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

HPLC/IC

Analysis Batch: 430844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153507-1	APMW-9	Total/NA	Water	300.0	
180-153507-1	APMW-9	Total/NA	Water	300.0	
180-153507-2	APMW-10	Total/NA	Water	300.0	
MB 180-430844/6	Method Blank	Total/NA	Water	300.0	
LCS 180-430844/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 430915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153507-4	APMW-10D	Total/NA	Water	300.0	
180-153507-5	DUP-05	Total/NA	Water	300.0	
180-153507-5	DUP-05	Total/NA	Water	300.0	
180-153507-6	EB-02	Total/NA	Water	300.0	
MB 180-430915/6	Method Blank	Total/NA	Water	300.0	
LCS 180-430915/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 430944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153507-7	FB-02	Total/NA	Water	300.0	
MB 180-430944/6	Method Blank	Total/NA	Water	300.0	
LCS 180-430944/7	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 430169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153507-1	APMW-9	Total/NA	Water	7470A	
180-153507-2	APMW-10	Total/NA	Water	7470A	
180-153507-4	APMW-10D	Total/NA	Water	7470A	
180-153507-5	DUP-05	Total/NA	Water	7470A	
180-153507-6	EB-02	Total/NA	Water	7470A	
180-153507-7	FB-02	Total/NA	Water	7470A	
MB 180-430169/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-430169/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-153507-1 MS	APMW-9	Total/NA	Water	7470A	
180-153507-1 MSD	APMW-9	Total/NA	Water	7470A	

Analysis Batch: 430328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153507-1	APMW-9	Total/NA	Water	EPA 7470A	430169
180-153507-2	APMW-10	Total/NA	Water	EPA 7470A	430169
180-153507-4	APMW-10D	Total/NA	Water	EPA 7470A	430169
180-153507-5	DUP-05	Total/NA	Water	EPA 7470A	430169
180-153507-6	EB-02	Total/NA	Water	EPA 7470A	430169
180-153507-7	FB-02	Total/NA	Water	EPA 7470A	430169
MB 180-430169/1-A	Method Blank	Total/NA	Water	EPA 7470A	430169
LCS 180-430169/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	430169
180-153507-1 MS	APMW-9	Total/NA	Water	EPA 7470A	430169
180-153507-1 MSD	APMW-9	Total/NA	Water	EPA 7470A	430169

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

Metals

Prep Batch: 431559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153507-1	APMW-9	Total Recoverable	Water	3005A	
180-153507-2	APMW-10	Total Recoverable	Water	3005A	
180-153507-4	APMW-10D	Total Recoverable	Water	3005A	
180-153507-5	DUP-05	Total Recoverable	Water	3005A	
180-153507-6	EB-02	Total Recoverable	Water	3005A	
180-153507-7	FB-02	Total Recoverable	Water	3005A	
MB 180-431559/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-431559/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-153507-4 MS	APMW-10D	Total Recoverable	Water	3005A	
180-153507-4 MSD	APMW-10D	Total Recoverable	Water	3005A	

Analysis Batch: 433426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153507-1	APMW-9	Total Recoverable	Water	EPA 6020B	431559
180-153507-2	APMW-10	Total Recoverable	Water	EPA 6020B	431559
MB 180-431559/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	431559
LCS 180-431559/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	431559

Analysis Batch: 433538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153507-1	APMW-9	Total Recoverable	Water	EPA 6020B	431559
180-153507-4	APMW-10D	Total Recoverable	Water	EPA 6020B	431559
180-153507-5	DUP-05	Total Recoverable	Water	EPA 6020B	431559
LCS 180-431559/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	431559
180-153507-4 MS	APMW-10D	Total Recoverable	Water	EPA 6020B	431559
180-153507-4 MSD	APMW-10D	Total Recoverable	Water	EPA 6020B	431559

Analysis Batch: 433869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153507-4	APMW-10D	Total Recoverable	Water	EPA 6020B	431559
180-153507-5	DUP-05	Total Recoverable	Water	EPA 6020B	431559
180-153507-6	EB-02	Total Recoverable	Water	EPA 6020B	431559
180-153507-7	FB-02	Total Recoverable	Water	EPA 6020B	431559
180-153507-4 MS	APMW-10D	Total Recoverable	Water	EPA 6020B	431559
180-153507-4 MSD	APMW-10D	Total Recoverable	Water	EPA 6020B	431559

Analysis Batch: 435374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153507-4	APMW-10D	Total Recoverable	Water	EPA 6020B	431559
180-153507-6	EB-02	Total Recoverable	Water	EPA 6020B	431559
180-153507-4 MS	APMW-10D	Total Recoverable	Water	EPA 6020B	431559
180-153507-4 MSD	APMW-10D	Total Recoverable	Water	EPA 6020B	431559

Analysis Batch: 435707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153507-7	FB-02	Total Recoverable	Water	EPA 6020B	431559

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

General Chemistry

Analysis Batch: 429764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153507-1	APMW-9	Total/NA	Water	SM 2540C	
180-153507-2	APMW-10	Total/NA	Water	SM 2540C	
180-153507-4	APMW-10D	Total/NA	Water	SM 2540C	
180-153507-5	DUP-05	Total/NA	Water	SM 2540C	
180-153507-6	EB-02	Total/NA	Water	SM 2540C	
180-153507-7	FB-02	Total/NA	Water	SM 2540C	
MB 180-429764/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-429764/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 429914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153507-1	APMW-9	Total/NA	Water	SM2320 B	
180-153507-2	APMW-10	Total/NA	Water	SM2320 B	
180-153507-4	APMW-10D	Total/NA	Water	SM2320 B	
180-153507-5	DUP-05	Total/NA	Water	SM2320 B	
180-153507-6	EB-02	Total/NA	Water	SM2320 B	
180-153507-7	FB-02	Total/NA	Water	SM2320 B	
MB 180-429914/29	Method Blank	Total/NA	Water	SM2320 B	
MB 180-429914/53	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-429914/28	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-429914/52	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-429914/27	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-429914/51	Lab Control Sample	Total/NA	Water	SM2320 B	
180-153507-7 DU	FB-02	Total/NA	Water	SM2320 B	

Analysis Batch: 430333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153507-1	APMW-9	Total/NA	Water	EPA 353.2	
180-153507-2	APMW-10	Total/NA	Water	EPA 353.2	
180-153507-4	APMW-10D	Total/NA	Water	EPA 353.2	
180-153507-5	DUP-05	Total/NA	Water	EPA 353.2	
180-153507-6	EB-02	Total/NA	Water	EPA 353.2	
180-153507-7	FB-02	Total/NA	Water	EPA 353.2	
MB 180-430333/21	Method Blank	Total/NA	Water	EPA 353.2	
MB 180-430333/56	Method Blank	Total/NA	Water	EPA 353.2	
LCS 180-430333/20	Lab Control Sample	Total/NA	Water	EPA 353.2	
LCS 180-430333/52	Lab Control Sample	Total/NA	Water	EPA 353.2	
180-153507-7 MS	FB-02	Total/NA	Water	EPA 353.2	
180-153507-7 MSD	FB-02	Total/NA	Water	EPA 353.2	

Analysis Batch: 431142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153507-4	APMW-10D	Total/NA	Water	5310 C-2014	
180-153507-6	EB-02	Total/NA	Water	5310 C-2014	
180-153507-7	FB-02	Total/NA	Water	5310 C-2014	
MB 180-431142/67	Method Blank	Total/NA	Water	5310 C-2014	
LCS 180-431142/66	Lab Control Sample	Total/NA	Water	5310 C-2014	

Analysis Batch: 431710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153507-1	APMW-9	Total/NA	Water	5310 C-2014	

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-1

General Chemistry (Continued)

Analysis Batch: 431710 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153507-2	APMW-10	Total/NA	Water	5310 C-2014	
180-153507-5	DUP-05	Total/NA	Water	5310 C-2014	
MB 180-431710/5	Method Blank	Total/NA	Water	5310 C-2014	
LCS 180-431710/4	Lab Control Sample	Total/NA	Water	5310 C-2014	

Field Service / Mobile Lab

Analysis Batch: 431326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153507-1	APMW-9	Total/NA	Water	Field Sampling	
180-153507-2	APMW-10	Total/NA	Water	Field Sampling	
180-153507-4	APMW-10D	Total/NA	Water	Field Sampling	
180-153507-5	DUP-05	Total/NA	Water	Field Sampling	

Chain of Custody Record

Client Information Client Contact: DDD VDCIS SCS Contacts: 850-336-092 Company: SCS		Lab PM: Brown, Shall E-Mail: shall.brown@eurofinset.com		Carrier Tracking No(s): COC No: 141 Page: 1/41 Job #:	
Due Date Requested: TAT Requested (days): PO #: 18020186 WO #: SSOW#		Analysis Requested 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate Bromide 6020B/7470 Custom 23 (Appl/Al/pp1v+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			
Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email: Plant Watson SCS Contacts: 18020186 Project Name: Plant Watson Site:		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air) Sample Type (C=comp, G=grab) Sample Date Sample Time Preservation Code:			
Sample Identification APMW-9 APMW-10 APMW-10D APMW-1R DUP-05 EB-02 FB-02		Sample Date Sample Time Preservation Code:		Total Number of Containers 8 8 8 8 8 8 8	
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					
Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by:					
Relinquished by: [Signature] Date: 3-13-23 1700		Relinquished by: [Signature] Date: 3-13-23 1700		Relinquished by: [Signature] Date: 3-13-23 1700	
Relinquished by: [Signature] Date: 3-13-23 1700		Relinquished by: [Signature] Date: 3-13-23 1700		Relinquished by: [Signature] Date: 3-13-23 1700	
Relinquished by: [Signature] Date: 3-13-23 1700		Relinquished by: [Signature] Date: 3-13-23 1700		Relinquished by: [Signature] Date: 3-13-23 1700	
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:					
Method of Shipment:					
Relinquished by: [Signature] Date: 3-13-23 1700		Relinquished by: [Signature] Date: 3-13-23 1700		Relinquished by: [Signature] Date: 3-13-23 1700	
Relinquished by: [Signature] Date: 3-13-23 1700		Relinquished by: [Signature] Date: 3-13-23 1700		Relinquished by: [Signature] Date: 3-13-23 1700	
Relinquished by: [Signature] Date: 3-13-23 1700		Relinquished by: [Signature] Date: 3-13-23 1700		Relinquished by: [Signature] Date: 3-13-23 1700	



Chain of Custody Record

Client Information Client Contact: DDD VDCIS SCS Contacts: 850-336-092 Company: SCS		Lab PM: Brown, Shall E-Mail: shall.brown@eurofinset.com		Carrier Tracking No(s): COC No: 141 Page: 1/41 Job #:	
Due Date Requested: TAT Requested (days): PO #: 18020186 WO #: SSOW#		Analysis Requested			
Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email: SCS Contacts Project Name: Plant Watson Site:		2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate Bromide 6020B/7470 Custom 23 (Appl/A/pp1v+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			
Sample Identification APMW-9 APMW-10 APMW-10D APMW-1R DUP-05 EB-02 FB-02		Sample Date 3-13-23 3-13-23 3-13-23 3-13-23 3-13-23 3-13-23	Sample Time 0933 1103 1347 1641 1541 1148 1157	Sample Type (C=Comp, G=grab) G G G G G G G	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air) W W W W W W W
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: <input type="checkbox"/> I, <input type="checkbox"/> II, <input type="checkbox"/> III, <input type="checkbox"/> IV, Other (specify)		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Method of Shipment:			
Relinquished by: [Signature] Date: 3-13-23 1700		Relinquished by: [Signature] Date: 3-13-23 1700		Relinquished by: [Signature] Date: 3-13-23 1700	
Relinquished by: [Signature] Date: 3-13-23 1700		Relinquished by: [Signature] Date: 3-13-23 1700		Relinquished by: [Signature] Date: 3-13-23 1700	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:			



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BERNARD KIRKLAND
 EUROFINS SAVANNAH
 102 LAROCHE AVENUE

SAVANNAH, GA 31404
 UNITED STATES US

ACTWTG: 15.00 LB MAN
 CAD: 0422081/CAFE3621

BILL SENDER

Part # 159483-434 INTV EXP-12/23
 VEEV72866/23ERS
 An 109090220322P

RECEIVING
EUROFINS PITTSBURG
301 ALPHA DRIVE

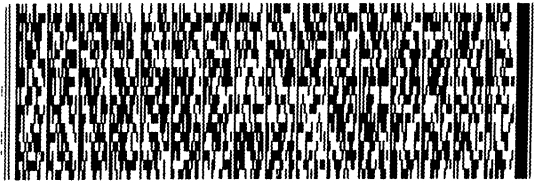
PITTSBURGH PA 15238

(412) 963-7063

REF:

NU:

DEPT:



FedEx
 Express



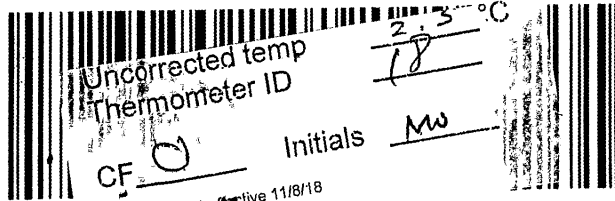
An 109090220322P

PK# 5921 9895 1929
 201

TUE - 14 MAR 10:30A
PRIORITY OVERNIGHT

KN AGCA

15238
 PA-US **PIT**



Uncorrected temp
 Thermometer ID

2.3 °C
 18

CF 0 Initials MW

PT-WI-SR-001 effective 11/8/18



180-153507 Waybill

NO COC
D. Wilson
EPHANE

3-14-23

10:25

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BERNARD KIRKLAND
 EUROFINS SAVANNAH
 102 LAROCHE AVENUE

SAVANNAH, GA 31404
 UNITED STATES US

ACTWGT: 15.00 LB MAN
 CAD: 0422081/CAFE3621

BILL SENDER

Part # 159483-434 INTW EXP-12/23
 WEB# Z286/12285
 AN 109090220322P

RECEIVING
EUROFINS PITTSBURG
301 ALPHA DRIVE

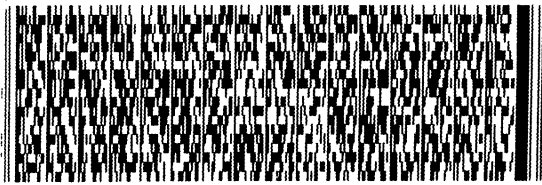
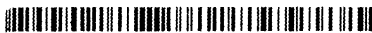
PITTSBURGH PA 15238

412) 963-7063

REF:

NU:

DEPT:



FedEx
 Express



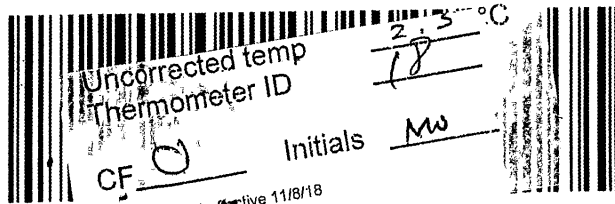
AN 109090220322P

PK# 5921 9895 1929
 201

TUE - 14 MAR 10:30A
PRIORITY OVERNIGHT

KN AGCA

15238
 PA-US **PIT**



Uncorrected temp
 Thermometer ID

2.3 °C
 18

CF 0 Initials MW

PT-WI-SR-001 effective 11/8/18



180-153507 Waybill

NO COC
D. Wilson
EPHANE

3-14-23

10:25

ORIGIN ID: BIXA (850)
TESTAMERICA PITTSBURGH
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

336-0192
LAB

SHIP ACTWGT
CAD: 6993
DIMS: 23x14x

BILL THIRD PARTY

ORIGIN ID: BIXA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 13MAR23
ACTWGT: 60.00 LB
CAD: 6993799/SSFE2401
DIMS: 23x14x14 IN
BILL THIRD PARTY

Part # 1562974385910B95EXP 12/23

TO
TESTAMERICA
301 ALPHA DR
PITTSBURGH LAB

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238
(850) 336-0192
REF: DEPT:

PITTSBURGH PA 15238
(850) 336-0192
REF: DEPT:

Uncorrected temp	2.5	°C
Thermometer ID	18	
CF 0	Initials	Mo

PT-WI-SR-001 effective 11/8/18

Uncorrected temp	3.1	°C
Thermometer ID	12	
CF 0.0	Initials	Mo

PT-WI-SR-001 effective 11/8/18



3 of 4
MPS# 0263 3957 0219 4007
Mstr# 3957 0219 3982 201
XN AGCA
PA-US PI

1 of 4
TRK# 0201 3957 0219 3982
MASTER ##
XN AGCA
TUE - 14 MAR 10:30A
PRIORITY OVERNIGHT
15238
PA-US PIT



RT 198
FZ 197
10:30 A
3982
03.15

336-0192
PITTSBURGH LAB
PITTSBURGH PA 15230

SHIP DATE: 13MAR23
ACTWGT: 58.00 LB
CAD: 6993789/SSFE2401
DIMS: 23x14x14 IN
BILL THIRD PARTY

Part # 156297-240888RR03B959P 12/23

IFSTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

REF: DEPT: °C
Uncorrected temp 2.7
Thermometer ID 18
CF Initials MS
PT-WI-SR-001 effective 11/8/18



TUE - 14 MAR 10:30A
PRIORITY OVERNIGHT

2 of 4
NPSN 3957 0219 3993
WLSN 3957 0719 3682

0201

XN AGCA

15238
PA-US PIT



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ORIGIN ID: BIXA (850)
TESTAMERICA PITTSBURGH
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

336-0192
LAB

SHIP ACTWGT
CAD: 6993
DIMS: 23x14x

BILL THIRD PARTY

ORIGIN ID: BIXA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 13MAR23
ACTWGT: 60.00 LB
CAD: 6993799/SSFE2401
DIMS: 23x14x14 IN
BILL THIRD PARTY

Part # 156297488910895EXP 12/23

TO
TESTAMERICA
301 ALPHA DR
PITTSBURGH LAB

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238
(850) 336-0192
REF: DEPT:

PITTSBURGH PA 15238
(850) 336-0192
REF: DEPT:

Uncorrected temp	2.5	°C
Thermometer ID	18	
CF 0	Initials	Mo
PT-WI-SR-001 effective 11/8/18		

Uncorrected temp	3.1	°C
Thermometer ID	12	
CF 0.0	Initials	Mo
PT-WI-SR-001 effective 11/8/18		



3 of 4
MPS# 0263 3957 0219 4
Mstr# 3957 0219 398 007
201
XN AGCA

TUE - 14 MAR 10:30
PRIORITY OVERNIGHT

1 of 4
TRK# 0201 3957 0219 3982
MASTER

TUE - 14 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



RT 198
FZ 197
10:30 A
3982
03.15

SHIP DATE: 13MAR23
ACTWGT: 58.00 LB
CAD: 6993789/SSFE2401
DIMS: 23x14x14 IN
BILL THIRD PARTY

SHIP DATE: 13MAR23
ACTWGT: 58.00 LB
CAD: 6993789/SSFE2401
DIMS: 23x14x14 IN
BILL THIRD PARTY

Part # 15629724088RFR03E959P12/23

IFSTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

REF: _____ DEPT: _____

Uncorrected temp 2.7 °C

Thermometer ID 18

CF 0 Initials MS

PT-WI-SR-001 effective 11/8/18

FedEx Express

E

TUE - 14 MAR 10:30A
PRIORITY OVERNIGHT

2 of 4
NPSN 3957 0219 3993
WLSN 3957 0719 3682

0201

XN AGCA

15238
PA-US PIT



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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-153507-1

Login Number: 153507

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.	False	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: 180-153507-1

Login Number: 153507

List Source: Eurofins Pittsburgh

List Number: 2

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	
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 sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	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	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	



ANALYTICAL REPORT

PREPARED FOR

Attn: Robert (Trey) Singleton
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Generated 5/24/2023 1:34:56 PM Revision 1

JOB DESCRIPTION

Plant Watson Ash Pond

JOB NUMBER

180-153507-2

Eurofins Pittsburgh

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Pittsburgh and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Pittsburgh Project Manager or designee who has signed this report.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



Authorized for release by
Shali Brown, Project Manager II
Shali.Brown@et.eurofinsus.com
(615)301-5031

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Revision 1

Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions/Glossary	6
Certification Summary	7
Sample Summary	8
Method Summary	9
Lab Chronicle	10
Client Sample Results	12
QC Sample Results	18
QC Association Summary	20
Chain of Custody	21
Receipt Checklists	26



Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-2

Job ID: 180-153507-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-153507-2

052423 Revised report at client request to remove the following sample because it was collected and reported in a previous report:: APMW-1R (180-153507-3). This report replaces the report previously issued on 041723.

Receipt

The samples were received on 3/14/2023 10:25 AM and 3/15/2023 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.4°C, 2.4°C, 2.5°C and 3.1°C

Receipt Exceptions

A Chain-of-Custody (COC) was not received with these samples: APMW-9 (180-153507-1), APMW-10 (180-153507-2), APMW-10D (180-153507-4), DUP-05 (180-153507-5), EB-02 (180-153507-6) and FB-02 (180-153507-7). The second cooler was received and the COC was inside.

The container label for one out of three TOC containers for the following sample did not match the information listed on the Chain-of-Custody (COC): APMW-10D (180-153507-4). The container labels list a sample id of APMW-1R, while the COC lists APMW-10D. The vial was put in the box with a do not use sticker.

Gas Flow Proportional Counter

Method 9315_Ra226: Radium 226 Prep Batch 160-604605The following sample was prepared at a reduced aliquot due to Matrix: APMW-10 (180-153507-2). 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 160-604605Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-9 (180-153507-1), APMW-10D (180-153507-4), DUP-05 (180-153507-5), EB-02 (180-153507-6) and FB-02 (180-153507-7). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9315_Ra226: Radium-226 prep batch 160-604605: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-9 (180-153507-1), APMW-10 (180-153507-2), APMW-10D (180-153507-4), DUP-05 (180-153507-5), EB-02 (180-153507-6), FB-02 (180-153507-7), (LCS 160-604605/2-A), (LCSD 160-604605/3-A) and (MB 160-604605/1-A)

Method 9320_Ra228: Radium-228 Prep Batch 160-604615The following sample was prepared at a reduced aliquot due to Matrix: APMW-10 (180-153507-2). 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 160-604615Insufficient sample volume was available to perform a sample duplicate for the following samples: APMW-9 (180-153507-1), APMW-10D (180-153507-4), DUP-05 (180-153507-5), EB-02 (180-153507-6) and FB-02 (180-153507-7). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9320_Ra228: Radium-228 prep batch 160-604615: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-9 (180-153507-1), APMW-10 (180-153507-2), APMW-10D (180-153507-4), DUP-05 (180-153507-5), EB-02 (180-153507-6), FB-02 (180-153507-7), (LCS 160-604615/2-A), (LCSD 160-604615/3-A) and (MB 160-604615/1-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-2

Job ID: 180-153507-2 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

Rad
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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- 2
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- 5
- 6
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- 10
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Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-2

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: 180-153507-2

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	05-17-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-23
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Pittsburgh

Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-153507-1	APMW-9	Water	03/13/23 09:33	03/14/23 10:25
180-153507-2	APMW-10	Water	03/13/23 11:03	03/14/23 10:25
180-153507-4	APMW-10D	Water	03/13/23 13:47	03/15/23 09:50
180-153507-5	DUP-05	Water	03/13/23 15:41	03/15/23 09:50
180-153507-6	EB-02	Water	03/13/23 11:48	03/15/23 09:50
180-153507-7	FB-02	Water	03/13/23 11:57	03/15/23 09:50

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Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-2

Client Sample ID: APMW-9

Lab Sample ID: 180-153507-1

Date Collected: 03/13/23 09:33

Matrix: Water

Date Received: 03/14/23 10:25

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			1008.13 mL	1.0 g	604605	03/22/23 11:09	DJP	EET SL
Total/NA	Analysis	9315		1			607426	04/14/23 10:12	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1008.13 mL	1.0 g	604615	03/22/23 11:32	DJP	EET SL
Total/NA	Analysis	9320		1			607358	04/13/23 12:13	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			607838	04/17/23 14:15	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-10

Lab Sample ID: 180-153507-2

Date Collected: 03/13/23 11:03

Matrix: Water

Date Received: 03/14/23 10:25

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			746.51 mL	1.0 g	604605	03/22/23 11:09	DJP	EET SL
Total/NA	Analysis	9315		1			607426	04/14/23 10:13	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			746.51 mL	1.0 g	604615	03/22/23 11:32	DJP	EET SL
Total/NA	Analysis	9320		1			607358	04/13/23 12:13	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			607838	04/17/23 15:39	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: APMW-10D

Lab Sample ID: 180-153507-4

Date Collected: 03/13/23 13:47

Matrix: Water

Date Received: 03/15/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			997.51 mL	1.0 g	604605	03/22/23 11:09	DJP	EET SL
Total/NA	Analysis	9315		1			607426	04/14/23 12:11	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			997.51 mL	1.0 g	604615	03/22/23 11:32	DJP	EET SL
Total/NA	Analysis	9320		1			607358	04/13/23 12:13	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			607838	04/17/23 15:39	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-05

Lab Sample ID: 180-153507-5

Date Collected: 03/13/23 15:41

Matrix: Water

Date Received: 03/15/23 09:50

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			1006.92 mL	1.0 g	604605	03/22/23 11:09	DJP	EET SL
Total/NA	Analysis	9315		1			607426	04/14/23 12:11	SCB	EET SL
Instrument ID: GFPCPURPLE										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-2

Client Sample ID: DUP-05

Lab Sample ID: 180-153507-5

Date Collected: 03/13/23 15:41

Matrix: Water

Date Received: 03/15/23 09:50

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			1006.92 mL	1.0 g	604615	03/22/23 11:32	DJP	EET SL
Total/NA	Analysis	9320		1			607358	04/13/23 12:14	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			607838	04/17/23 15:39	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-02

Lab Sample ID: 180-153507-6

Date Collected: 03/13/23 11:48

Matrix: Water

Date Received: 03/15/23 09:50

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			1008.84 mL	1.0 g	604605	03/22/23 11:09	DJP	EET SL
Total/NA	Analysis	9315		1			607426	04/14/23 12:11	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			1008.84 mL	1.0 g	604615	03/22/23 11:32	DJP	EET SL
Total/NA	Analysis	9320		1			607358	04/13/23 12:14	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			607838	04/17/23 15:39	MLK	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-02

Lab Sample ID: 180-153507-7

Date Collected: 03/13/23 11:57

Matrix: Water

Date Received: 03/15/23 09:50

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			960.90 mL	1.0 g	604605	03/22/23 11:09	DJP	EET SL
Total/NA	Analysis	9315		1			607426	04/14/23 12:12	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			960.90 mL	1.0 g	604615	03/22/23 11:32	DJP	EET SL
Total/NA	Analysis	9320		1			607358	04/13/23 12:14	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			607838	04/17/23 15:39	MLK	EET SL
Instrument ID: NOEQUIP										

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Analyst References:

Lab: EET SL

Batch Type: Prep

DJP = Dalton Pieper

Batch Type: Analysis

MLK = Micha Korrinhizer

SCB = Sarah Bernsen

Eurofins Pittsburgh

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-2

Client Sample ID: APMW-9

Lab Sample ID: 180-153507-1

Date Collected: 03/13/23 09:33

Matrix: Water

Date Received: 03/14/23 10:25

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.62		0.433	0.493	1.00	0.256	pCi/L	03/22/23 11:09	04/14/23 10:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.1		30 - 110					03/22/23 11:09	04/14/23 10:12	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.95		0.676	0.815	1.00	0.482	pCi/L	03/22/23 11:32	04/13/23 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.1		30 - 110					03/22/23 11:32	04/13/23 12:13	1
Y Carrier	89.0		30 - 110					03/22/23 11:32	04/13/23 12:13	1

Method: TAL-STL 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	7.57		0.803	0.953	5.00	0.482	pCi/L		04/17/23 14:15	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-2

Client Sample ID: APMW-10

Lab Sample ID: 180-153507-2

Date Collected: 03/13/23 11:03

Matrix: Water

Date Received: 03/14/23 10:25

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.25		0.373	0.390	1.00	0.350	pCi/L	03/22/23 11:09	04/14/23 10:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.4		30 - 110					03/22/23 11:09	04/14/23 10:13	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.67		0.535	0.557	1.00	0.628	pCi/L	03/22/23 11:32	04/13/23 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.4		30 - 110					03/22/23 11:32	04/13/23 12:13	1
Y Carrier	92.0		30 - 110					03/22/23 11:32	04/13/23 12:13	1

Method: TAL-STL 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	2.92		0.652	0.680	5.00	0.628	pCi/L		04/17/23 15:39	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-2

Client Sample ID: APMW-10D

Lab Sample ID: 180-153507-4

Date Collected: 03/13/23 13:47

Matrix: Water

Date Received: 03/15/23 09:50

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0140	U	0.151	0.151	1.00	0.295	pCi/L	03/22/23 11:09	04/14/23 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.7		30 - 110					03/22/23 11:09	04/14/23 12:11	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.166	U	0.328	0.329	1.00	0.572	pCi/L	03/22/23 11:32	04/13/23 12:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.7		30 - 110					03/22/23 11:32	04/13/23 12:13	1
Y Carrier	84.5		30 - 110					03/22/23 11:32	04/13/23 12:13	1

Method: TAL-STL 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	0.180	U	0.361	0.362	5.00	0.572	pCi/L		04/17/23 15:39	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-2

Client Sample ID: DUP-05
 Date Collected: 03/13/23 15:41
 Date Received: 03/15/23 09:50

Lab Sample ID: 180-153507-5
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	5.98		0.611	0.814	1.00	0.259	pCi/L	03/22/23 11:09	04/14/23 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					03/22/23 11:09	04/14/23 12:11	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.61		0.743	0.960	1.00	0.491	pCi/L	03/22/23 11:32	04/13/23 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					03/22/23 11:32	04/13/23 12:14	1
Y Carrier	91.2		30 - 110					03/22/23 11:32	04/13/23 12:14	1

Method: TAL-STL 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		0.962	1.26	5.00	0.491	pCi/L		04/17/23 15:39	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-2

Client Sample ID: EB-02

Lab Sample ID: 180-153507-6

Date Collected: 03/13/23 11:48

Matrix: Water

Date Received: 03/15/23 09:50

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00483	U	0.122	0.122	1.00	0.251	pCi/L	03/22/23 11:09	04/14/23 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					03/22/23 11:09	04/14/23 12:11	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.139	U	0.229	0.230	1.00	0.476	pCi/L	03/22/23 11:32	04/13/23 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					03/22/23 11:32	04/13/23 12:14	1
Y Carrier	92.0		30 - 110					03/22/23 11:32	04/13/23 12:14	1

Method: TAL-STL 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	0.259	0.260	5.00	0.476	pCi/L		04/17/23 15:39	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-2

Client Sample ID: FB-02

Lab Sample ID: 180-153507-7

Date Collected: 03/13/23 11:57

Matrix: Water

Date Received: 03/15/23 09:50

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0291	U	0.135	0.135	1.00	0.259	pCi/L	03/22/23 11:09	04/14/23 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		30 - 110					03/22/23 11:09	04/14/23 12:12	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.170	U	0.311	0.311	1.00	0.610	pCi/L	03/22/23 11:32	04/13/23 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		30 - 110					03/22/23 11:32	04/13/23 12:14	1
Y Carrier	92.0		30 - 110					03/22/23 11:32	04/13/23 12:14	1

Method: TAL-STL 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	-0.141	U	0.339	0.339	5.00	0.610	pCi/L		04/17/23 15:39	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-604605/1-A
Matrix: Water
Analysis Batch: 607424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604605

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1104	U	0.151	0.152	1.00	0.255	pCi/L	03/22/23 11:09	04/14/23 10:08	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	96.6		30 - 110			03/22/23 11:09	04/14/23 10:08	1		

Lab Sample ID: LCS 160-604605/2-A
Matrix: Water
Analysis Batch: 607424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604605

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.443		1.16	1.00	0.215	pCi/L	83	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	97.2		30 - 110						

Lab Sample ID: LCSD 160-604605/3-A
Matrix: Water
Analysis Batch: 607424

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 604605

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	Limit
				Uncert. (2σ+/-)							
Radium-226	11.3	10.81		1.29	1.00	0.255	pCi/L	95	75 - 125	0.56	1
Carrier	LCSD	LCSD	Limits			Prepared	Analyzed	Dil Fac			
	%Yield	Qualifier									
Ba Carrier	97.7		30 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-604615/1-A
Matrix: Water
Analysis Batch: 607345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604615

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2491	U	0.294	0.295	1.00	0.485	pCi/L	03/22/23 11:32	04/13/23 12:03	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	96.6		30 - 110			03/22/23 11:32	04/13/23 12:03	1		
Y Carrier	90.5		30 - 110			03/22/23 11:32	04/13/23 12:03	1		

Eurofins Pittsburgh

QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-604615/2-A
Matrix: Water
Analysis Batch: 607345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604615

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-228	8.04	8.995		1.19	1.00	0.438	pCi/L	112	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	97.2		30 - 110							
Y Carrier	91.2		30 - 110							

Lab Sample ID: LCSD 160-604615/3-A
Matrix: Water
Analysis Batch: 607345

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 604615

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		RER	RER Limit
Radium-228	8.04	8.425		1.16	1.00	0.516	pCi/L	105	75 - 125	0.24	1	
LCSD LCSD												
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	97.7		30 - 110									
Y Carrier	88.6		30 - 110									

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153507-2

Rad

Prep Batch: 604605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153507-1	APMW-9	Total/NA	Water	PrecSep-21	
180-153507-2	APMW-10	Total/NA	Water	PrecSep-21	
180-153507-4	APMW-10D	Total/NA	Water	PrecSep-21	
180-153507-5	DUP-05	Total/NA	Water	PrecSep-21	
180-153507-6	EB-02	Total/NA	Water	PrecSep-21	
180-153507-7	FB-02	Total/NA	Water	PrecSep-21	
MB 160-604605/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-604605/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-604605/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 604615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153507-1	APMW-9	Total/NA	Water	PrecSep_0	
180-153507-2	APMW-10	Total/NA	Water	PrecSep_0	
180-153507-4	APMW-10D	Total/NA	Water	PrecSep_0	
180-153507-5	DUP-05	Total/NA	Water	PrecSep_0	
180-153507-6	EB-02	Total/NA	Water	PrecSep_0	
180-153507-7	FB-02	Total/NA	Water	PrecSep_0	
MB 160-604615/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-604615/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-604615/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Chain of Custody Record

Client Information Client Contact: DDD VDCIS SCS Contacts: 850-336-092 Company: SCS		Lab PM: Brown, Shall E-Mail: shall.brown@eurofinset.com		Carrier Tracking No(s): COC No: 141 Page: 1/41 Job #:	
Due Date Requested: TAT Requested (days): PO #: 18020186 WO #: 18020186 Project #: 18020186 SOW #:		Analysis Requested			
Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email: Plant Watson SCS Contacts: Plant Watson Project Name: Plant Watson Site:		2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate Bromide 602B/7470 Custom 23 (Appl/A/pp1v+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			
Sample Identification Sample Date: 3-13-23 Sample Time: 0933 Sample Type: G Matrix: W Preservation Code:		Field Filtered Sample (Yes or No) 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate Bromide 602B/7470 Custom 23 (Appl/A/pp1v+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			
Sample Date: 3-13-23 Sample Time: 1103 Sample Type: G Matrix: W Preservation Code:		Field Filtered Sample (Yes or No) 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate Bromide 602B/7470 Custom 23 (Appl/A/pp1v+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			
Sample Date: 3-13-23 Sample Time: 1347 Sample Type: G Matrix: W Preservation Code:		Field Filtered Sample (Yes or No) 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate Bromide 602B/7470 Custom 23 (Appl/A/pp1v+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			
Sample Date: 3-13-23 Sample Time: 1641 Sample Type: G Matrix: W Preservation Code:		Field Filtered Sample (Yes or No) 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate Bromide 602B/7470 Custom 23 (Appl/A/pp1v+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			
Sample Date: 3-13-23 Sample Time: 1541 Sample Type: G Matrix: W Preservation Code:		Field Filtered Sample (Yes or No) 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate Bromide 602B/7470 Custom 23 (Appl/A/pp1v+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			
Sample Date: 3-13-23 Sample Time: 1148 Sample Type: G Matrix: W Preservation Code:		Field Filtered Sample (Yes or No) 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate Bromide 602B/7470 Custom 23 (Appl/A/pp1v+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			
Sample Date: 3-13-23 Sample Time: 1157 Sample Type: G Matrix: W Preservation Code:		Field Filtered Sample (Yes or No) 2540C Total Dissolved Solids 300_28Day Chloride Fluoride Sulfate Bromide 602B/7470 Custom 23 (Appl/A/pp1v+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			
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: <input type="checkbox"/> I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Method of Shipment:			
Relinquished by: [Signature] Date: 3-13-23 1700 Company: PDH SW		Received by: [Signature] Date/Time: 3-15-23 9:50 Company: EPH NE			
Relinquished by:		Received by:			
Relinquished by:		Received by:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:			



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- 11
- 12
- 13

BERNARD KIRKLAND
 EUROFINS SAVANNAH
 102 LAROCHE AVENUE

SAVANNAH, GA 31404
 UNITED STATES US

ACTWGT: 15.00 LB MAN
 CAD: 0422081/CAFE3621

BILL SENDER

Part # 159483-434 INTV EXP-12/23
 WEB# Z286/12285
 AN 109090220322P

RECEIVING
EUROFINS PITTSBURG
301 ALPHA DRIVE

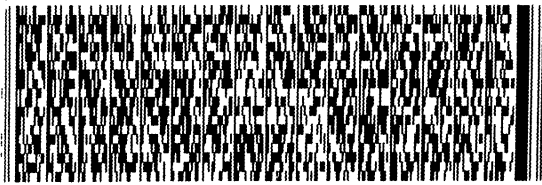
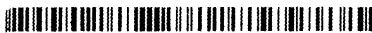
PITTSBURGH PA 15238

(412) 963-7063

REF:

NU:

DEPT:



FedEx
 Express



AN 109090220322P

PK# 5921 9895 1929
 201

TUE - 14 MAR 10:30A
PRIORITY OVERNIGHT

KN AGCA

15238
 PA-US **PIT**

Uncorrected temp 2.3 °C
 Thermometer ID 18
 CF 0 Initials MW

PT-WI-SR-001 effective 11/8/18



180-153507 Waybill

NO COC
D. Wilson
EPHANE
3/14/23
10:25

ORIGIN ID: BIXA (850) 336-0192
TESTAMERICA PITTSBURGH
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

336-0192
LAB

SHIP ACTWGT
CAD: 6993799
DIMS: 23x14x14

BILL THIRD PARTY

ORIGIN ID: BIXA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 13MAR23
ACTWGT: 60.00 LB
CAD: 6993799/SSFE2401
DIMS: 23x14x14 IN
BILL THIRD PARTY

Part # 156297438 941105B 525 EXP 12/23

TO
TESTAMERICA
301 ALPHA DR
PITTSBURGH LAB

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

PITTSBURGH PA 15238

(850) 336-0192
INU:
PO:

(850) 336-0192
INU:
PO:

REF:

DEPT:

Uncorrected temp 2.5 °C
Thermometer ID 18
CF 0 Initials Mo
PT-WI-SR-001 effective 11/8/18

Uncorrected temp 3.1 °C
Thermometer ID 12
CF 0.0 Initials Mo
PT-WI-SR-001 effective 11/8/18



3 of 4
MPS# 0263 3957 0219 4 007
Mstr# 3957 0219 398 201
XN AGCA

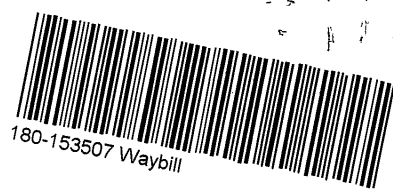
TUE - 14 MAR 10:30
PRIORITY OVERNIGHT

1 of 4
TRK# 0201 3957 0219 3982
MASTER

TUE - 14 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



RT 198
FZ 197
10:30
3982
03.15
A

336-0192
PITTSBURGH LAB
PITTSBURGH PA 15230

SHIP DATE: 13MAR23
ACTWGT: 58.00 LB
CAD: 6993789/SSFE2401
DIMS: 23x14x14 IN
BILL THIRD PARTY

Part # 156297-240888RR03B959P 12/23

IFSTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

REF: DEPT: °C
Uncorrected temp 2.7
Thermometer ID 18
CF Initials MS
PT-WI-SR-001 effective 11/8/18



TUE - 14 MAR 10:30A
PRIORITY OVERNIGHT

2 of 4
NPSN 3957 0219 3993
WLSN 3957 0719 3682

0201

XN AGCA

15238
PA-US PIT



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- 11
- 12
- 13

Chain of Custody Record

Client Information (Sub Contract Lab)		Lab PM		Carrier Tracking No(s)		COC No:	
Company: TestAmerica Laboratories, Inc.		Brown, Shall		180-482613.1		180-482613.1	
Address: 13715 Rider Trail North,		E-Mail: Shall.Brown@et.eurofins.com		State of Origin: Georgia		Page: Page 1 of 1	
City: Earth City		Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Accreditations Required (See note):		Job #: 180-153507-2	
State, Zip: MO, 63045		PO #:		Analysis Requested		Preservation Codes:	
Email:		WO #:		Due Date Requested: 4/17/2023		M - Hexane	
Project Name: Plant Watson Ash Pond		Project #: 18020186		TAT Requested (days):		N - None	
Site:		SSOW#:		Field Filtered Sample (Yes or No)		O - ASNaO2	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		P - Na2O4S	
APMW-9 (180-153507-1)		3/13/23		09:33 Eastern		Q - Na2SO3	
APMW-10 (180-153507-2)		3/13/23		11:03 Eastern		R - Na2S2O3	
APMW-1R (180-153507-3)		3/13/23		16:41 Eastern		S - H2SO4	
APMW-10D (180-153507-4)		3/13/23		13:47 Eastern		T - TSP Dodecahydrate	
DUP-05 (180-153507-5)		3/13/23		15:41 Eastern		U - Acetone	
EB-02 (180-153507-6)		3/13/23		11:48 Eastern		V - MCAA	
FB-02 (180-153507-7)		3/13/23		11:57 Eastern		W - pH 4-5	
						Y - Trizma	
						L - EDA	
						Z - other (specify)	
						Other:	
						Special Instructions/Note:	
						Total Number of Containers	
						2	
						2	
						2	
						2	
						2	
						2	
						2	
						14	
<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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.</p>							
<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: _____</p> <p>Relinquished by: <i>[Signature]</i> Date/Time: 3/17/23 800 _____ Company: <i>[Signature]</i> Company: _____</p> <p>Relinquished by: <i>[Signature]</i> Date/Time: 3/17/23 800 _____ Company: <i>[Signature]</i> Company: _____</p> <p>Relinquished by: <i>[Signature]</i> Date/Time: 3/17/23 800 _____ Company: <i>[Signature]</i> Company: _____</p> <p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____</p>							



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-153507-2

Login Number: 153507

List Source: Eurofins 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.	False	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-153507-2

Login Number: 153507

List Source: Eurofins Pittsburgh

List Number: 2

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	
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 sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	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	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-153507-2

Login Number: 153507

List Number: 3

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 03/20/23 12:53 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****PREPARED FOR**

Attn: Robert (Trey) Singleton
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Generated 5/26/2023 9:33:28 PM Revision 1

JOB DESCRIPTION

Plant Watson Ash Pond

JOB NUMBER

180-153570-1

Eurofins Pittsburgh

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Pittsburgh and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Pittsburgh Project Manager or designee who has signed this report.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



Authorized for release by
Shali Brown, Project Manager II
Shali.Brown@et.eurofinsus.com
(615)301-5031

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Revision 1



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions/Glossary	5
Certification Summary	6
Sample Summary	7
Method Summary	8
Lab Chronicle	9
Client Sample Results	11
QC Sample Results	13
QC Association Summary	18
Chain of Custody	20
Receipt Checklists	22

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153570-1

Job ID: 180-153570-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-153570-1

052623 Revised report at client request to remove the following sample because it was collected and reported in a previous report:: APMW-2 (180-153570-1) and APMW-11 (180-153570-2), This report replaces the report previously issued on 052223.

Receipt

The samples were received on 3/15/2023 9:50 AM. 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 2.5°C and 2.5°C

HPLC/IC

Method 300_ORGFM_28D: The following sample was diluted to bring the concentration of target analytes within the calibration range: APMW-2 (180-153570-1). 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.

Metals

Method 6020B: The following samples were diluted to bring the concentration of several analytes to within the instrument's linear range as well as for the matrix of the sample after digestion: APMW-12 (180-153570-3), DUP-06 (180-153570-4), (180-153507-E-4-B ^10), (180-153507-E-4-C MS ^10), (180-153507-E-4-D MSD ^10), (180-153507-E-4-B PDS ^10) and (180-153507-E-4-B SD ^50). 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 5310C: The sample duplicate precision for the following sample associated with analytical batch 180-431710 was outside control limits: DUP-06 (180-153570-4). The associated Laboratory Control Sample (LCS) precision met acceptance criteria. Sample result was below the reporting limit. Sample result can be reported with this qualification.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Field Service / Mobile Lab

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: 180-153570-1

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
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
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
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: 180-153570-1

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	06-27-23
California	State	2891	04-30-24
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-24
Illinois	NELAP	004375	06-30-24
Kansas	NELAP	E-10350	01-31-24
Kentucky (UST)	State	162013	04-30-23 *
Kentucky (WW)	State	KY98043	12-31-23
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-23
New Hampshire	NELAP	2030	04-04-24
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-01-24
North Carolina (WW/SW)	State	434	12-31-23
North Dakota	State	R-227	04-30-23 *
Oregon	NELAP	PA-2151	02-06-24
Pennsylvania	NELAP	02-00416	04-30-24
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-23 *
Texas	NELAP	T104704528	03-31-24
US Fish & Wildlife	US Federal Programs	058448	03-31-24
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-31-23
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	03-31-24
Wisconsin	State	998027800	08-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153570-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-153570-3	APMW-12	Water	03/14/23 13:35	03/15/23 09:50
180-153570-4	DUP-06	Water	03/14/23 09:58	03/15/23 09:50

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Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153570-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET PIT
EPA 6020B	Metals (ICP/MS)	SW846	EET PIT
EPA 7470A	Mercury (CVAA)	SW846	EET PIT
5310 C-2014	Total Organic Carbon/Persulfate - Ultrav	SM	EET PIT
EPA 353.2	Nitrogen, Nitrate-Nitrite	EPA	EET PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PIT
SM2320 B	Alkalinity, Total	SM18	EET PIT
Field Sampling	Field Sampling	EPA	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
7470A	Preparation, Mercury	SW846	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

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:

EET 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: 180-153570-1

Client Sample ID: APMW-12

Lab Sample ID: 180-153570-3

Date Collected: 03/14/23 13:35

Matrix: Water

Date Received: 03/15/23 09:50

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	1 mL	1 mL	430944	03/31/23 14:12	M1D	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	431559	04/06/23 11:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			435707	05/19/23 10:29	RJR	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	431559	04/06/23 11:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433869	04/29/23 01:59	RJR	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	431559	04/06/23 11:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		10			433538	04/27/23 00:03	DSH	EET PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	430169	03/23/23 10:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			430328	03/24/23 12:45	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	431710	04/06/23 18:38	LWM	EET PIT
Instrument ID: TOC1030										
Total/NA	Analysis	EPA 353.2		1	10 mL	10 mL	430333	03/24/23 11:24	SNR	EET PIT
Instrument ID: ASTORIA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	429782	03/20/23 15:51	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			429914	03/21/23 12:46	MAM	EET PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			431428	03/14/23 13:35	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-06

Lab Sample ID: 180-153570-4

Date Collected: 03/14/23 09:58

Matrix: Water

Date Received: 03/15/23 09:50

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	1 mL	1 mL	430944	03/31/23 13:53	M1D	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	431559	04/06/23 11:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			435707	05/19/23 10:38	RJR	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	431559	04/06/23 11:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433869	04/29/23 02:07	RJR	EET PIT
Instrument ID: DORY										
Total Recoverable	Prep	3005A			25 mL	25 mL	431559	04/06/23 11:20	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		10			433538	04/27/23 00:06	DSH	EET PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	430169	03/23/23 10:27	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			430328	03/24/23 12:46	RJR	EET PIT
Instrument ID: HGZ										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Ash Pond

Job ID: 180-153570-1

Client Sample ID: DUP-06

Lab Sample ID: 180-153570-4

Date Collected: 03/14/23 09:58

Matrix: Water

Date Received: 03/15/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	5310 C-2014		1	40 mL	40 mL	431710	04/06/23 19:26	LWM	EET PIT
Total/NA	Analysis	EPA 353.2 Instrument ID: ASTORIA2		1	10 mL	10 mL	430333	03/24/23 11:26	SNR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	429782	03/20/23 15:51	LWM	EET PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			429914	03/21/23 12:32	MAM	EET PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			431428	03/14/23 09:58	FDS	EET PIT

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: EET PIT

Batch Type: Prep

HCY = Harrison Yaeger

RJR = Ron Rosenbaum

Batch Type: Analysis

DSH = David Heakin

FDS = Sampler Field

LWM = Leslie McIntire

M1D = Maureen Donlin

MAM = Matthew Martin

RJR = Ron Rosenbaum

SNR = Sabra Richart

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153570-1

Client Sample ID: APMW-12

Lab Sample ID: 180-153570-3

Date Collected: 03/14/23 13:35

Matrix: Water

Date Received: 03/15/23 09:50

Method: EPA 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			03/31/23 14:12	1
Chloride	14		1.0	0.71	mg/L			03/31/23 14:12	1
Fluoride	0.045	J	0.20	0.026	mg/L			03/31/23 14:12	1
Sulfate	<0.76		1.0	0.76	mg/L			03/31/23 14:12	1

Method: SW846 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		04/06/23 11:20	04/29/23 01:59	1
Antimony	<0.00097		0.0020	0.00097	mg/L		04/06/23 11:20	04/29/23 01:59	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		04/06/23 11:20	04/29/23 01:59	1
Barium	0.062		0.010	0.0031	mg/L		04/06/23 11:20	04/29/23 01:59	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/06/23 11:20	04/29/23 01:59	1
Boron	<0.060		0.080	0.060	mg/L		04/06/23 11:20	05/19/23 10:29	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/06/23 11:20	04/29/23 01:59	1
Calcium	12		0.50	0.13	mg/L		04/06/23 11:20	04/29/23 01:59	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/06/23 11:20	04/29/23 01:59	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/06/23 11:20	04/29/23 01:59	1
Lead	<0.00038		0.0010	0.00038	mg/L		04/06/23 11:20	04/29/23 01:59	1
Lithium	0.019	B	0.0050	0.0013	mg/L		04/06/23 11:20	04/29/23 01:59	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/06/23 11:20	04/29/23 01:59	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/06/23 11:20	04/29/23 01:59	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/06/23 11:20	04/29/23 01:59	1
Iron	3.7		0.050	0.028	mg/L		04/06/23 11:20	04/29/23 01:59	1
Potassium	1.9		0.50	0.16	mg/L		04/06/23 11:20	04/29/23 01:59	1
Magnesium	2.5		0.50	0.050	mg/L		04/06/23 11:20	04/29/23 01:59	1
Manganese	0.094		0.0050	0.0013	mg/L		04/06/23 11:20	04/29/23 01:59	1
Sodium	16		0.50	0.18	mg/L		04/06/23 11:20	04/29/23 01:59	1
Silicon	22		5.0	0.62	mg/L		04/06/23 11:20	04/27/23 00:03	10
Strontium	0.062		0.0050	0.0017	mg/L		04/06/23 11:20	04/29/23 01:59	1
SiO2, Silica	46		11	1.5	mg/L		04/06/23 11:20	04/27/23 00:03	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/23/23 10:27	03/24/23 12:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	0.79	J	1.0	0.51	mg/L			04/06/23 18:38	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/24/23 11:24	1
Total Dissolved Solids (SM 2540C)	120		10	10	mg/L			03/20/23 15:51	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	60		5.0	5.0	mg/L			03/21/23 12:46	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	60		5.0	5.0	mg/L			03/21/23 12:46	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/21/23 12:46	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.11				SU			03/14/23 13:35	1

Eurofins Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153570-1

Client Sample ID: DUP-06

Lab Sample ID: 180-153570-4

Date Collected: 03/14/23 09:58

Matrix: Water

Date Received: 03/15/23 09:50

Method: EPA 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			03/31/23 13:53	1
Chloride	8.4		1.0	0.71	mg/L			03/31/23 13:53	1
Fluoride	0.039	J	0.20	0.026	mg/L			03/31/23 13:53	1
Sulfate	<0.76		1.0	0.76	mg/L			03/31/23 13:53	1

Method: SW846 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		04/06/23 11:20	04/29/23 02:07	1
Antimony	<0.00097		0.0020	0.00097	mg/L		04/06/23 11:20	04/29/23 02:07	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		04/06/23 11:20	04/29/23 02:07	1
Barium	0.036		0.010	0.0031	mg/L		04/06/23 11:20	04/29/23 02:07	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/06/23 11:20	04/29/23 02:07	1
Boron	<0.060		0.080	0.060	mg/L		04/06/23 11:20	05/19/23 10:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/06/23 11:20	04/29/23 02:07	1
Calcium	11		0.50	0.13	mg/L		04/06/23 11:20	04/29/23 02:07	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/06/23 11:20	04/29/23 02:07	1
Cobalt	0.00052	J	0.0025	0.00026	mg/L		04/06/23 11:20	04/29/23 02:07	1
Lead	<0.00038		0.0010	0.00038	mg/L		04/06/23 11:20	04/29/23 02:07	1
Lithium	0.012	B	0.0050	0.0013	mg/L		04/06/23 11:20	04/29/23 02:07	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/06/23 11:20	04/29/23 02:07	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/06/23 11:20	04/29/23 02:07	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/06/23 11:20	04/29/23 02:07	1
Iron	2.1		0.050	0.028	mg/L		04/06/23 11:20	04/29/23 02:07	1
Potassium	1.3		0.50	0.16	mg/L		04/06/23 11:20	04/29/23 02:07	1
Magnesium	1.5		0.50	0.050	mg/L		04/06/23 11:20	04/29/23 02:07	1
Manganese	0.039		0.0050	0.0013	mg/L		04/06/23 11:20	04/29/23 02:07	1
Sodium	7.3		0.50	0.18	mg/L		04/06/23 11:20	04/29/23 02:07	1
Silicon	13		5.0	0.62	mg/L		04/06/23 11:20	04/27/23 00:06	10
Strontium	0.041		0.0050	0.0017	mg/L		04/06/23 11:20	04/29/23 02:07	1
SiO2, Silica	28		11	1.5	mg/L		04/06/23 11:20	04/27/23 00:06	10

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/23/23 10:27	03/24/23 12:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad (SM 5310 C-2014)	0.94	J	1.0	0.51	mg/L			04/06/23 19:26	1
Nitrate Nitrite as N (EPA 353.2)	<0.065		0.10	0.065	mg/L			03/24/23 11:26	1
Total Dissolved Solids (SM 2540C)	86		10	10	mg/L			03/20/23 15:51	1
Total Alkalinity as CaCO3 to pH 4.5 (SM18 SM2320 B)	43		5.0	5.0	mg/L			03/21/23 12:32	1
Bicarbonate Alkalinity as CaCO3 (SM18 SM2320 B)	43		5.0	5.0	mg/L			03/21/23 12:32	1
Carbonate Alkalinity as CaCO3 (SM18 SM2320 B)	<5.0		5.0	5.0	mg/L			03/21/23 12:32	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.42				SU			03/14/23 09:58	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153570-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-430944/6
Matrix: Water
Analysis Batch: 430944

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			03/31/23 12:03	1
Chloride	<0.71		1.0	0.71	mg/L			03/31/23 12:03	1
Fluoride	<0.026		0.20	0.026	mg/L			03/31/23 12:03	1
Sulfate	<0.76		1.0	0.76	mg/L			03/31/23 12:03	1

Lab Sample ID: LCS 180-430944/7
Matrix: Water
Analysis Batch: 430944

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	10.1		mg/L		101	90 - 110
Chloride	50.0	50.9		mg/L		102	90 - 110
Fluoride	2.50	2.65		mg/L		106	90 - 110
Sulfate	50.0	50.6		mg/L		101	90 - 110

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-431559/1-A
Matrix: Water
Analysis Batch: 433426

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 431559

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.016		0.030	0.016	mg/L		04/06/23 11:20	04/25/23 22:28	1
Antimony	<0.00097		0.0020	0.00097	mg/L		04/06/23 11:20	04/25/23 22:28	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		04/06/23 11:20	04/25/23 22:28	1
Barium	<0.0031		0.010	0.0031	mg/L		04/06/23 11:20	04/25/23 22:28	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		04/06/23 11:20	04/25/23 22:28	1
Boron	<0.060		0.080	0.060	mg/L		04/06/23 11:20	04/25/23 22:28	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		04/06/23 11:20	04/25/23 22:28	1
Calcium	<0.13		0.50	0.13	mg/L		04/06/23 11:20	04/25/23 22:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		04/06/23 11:20	04/25/23 22:28	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		04/06/23 11:20	04/25/23 22:28	1
Lead	<0.00038		0.0010	0.00038	mg/L		04/06/23 11:20	04/25/23 22:28	1
Lithium	0.00279	J	0.0050	0.0013	mg/L		04/06/23 11:20	04/25/23 22:28	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		04/06/23 11:20	04/25/23 22:28	1
Selenium	<0.00074		0.0050	0.00074	mg/L		04/06/23 11:20	04/25/23 22:28	1
Thallium	<0.00047		0.0010	0.00047	mg/L		04/06/23 11:20	04/25/23 22:28	1
Iron	<0.028		0.050	0.028	mg/L		04/06/23 11:20	04/25/23 22:28	1
Potassium	<0.16		0.50	0.16	mg/L		04/06/23 11:20	04/25/23 22:28	1
Magnesium	<0.050		0.50	0.050	mg/L		04/06/23 11:20	04/25/23 22:28	1
Manganese	<0.0013		0.0050	0.0013	mg/L		04/06/23 11:20	04/25/23 22:28	1
Sodium	0.243	J	0.50	0.18	mg/L		04/06/23 11:20	04/25/23 22:28	1
Silicon	<0.062		0.50	0.062	mg/L		04/06/23 11:20	04/25/23 22:28	1
Strontium	<0.0017		0.0050	0.0017	mg/L		04/06/23 11:20	04/25/23 22:28	1
SiO2, Silica	<0.15		1.1	0.15	mg/L		04/06/23 11:20	04/25/23 22:28	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153570-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-431559/2-A
Matrix: Water
Analysis Batch: 433426

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 431559

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5.00	5.03		mg/L		101	80 - 120
Antimony	0.250	0.295		mg/L		118	80 - 120
Arsenic	1.00	0.943		mg/L		94	80 - 120
Barium	1.00	1.17		mg/L		117	80 - 120
Boron	1.25	1.26		mg/L		101	80 - 120
Cadmium	0.500	0.554		mg/L		111	80 - 120
Calcium	25.0	29.6		mg/L		118	80 - 120
Chromium	0.500	0.554		mg/L		111	80 - 120
Cobalt	0.500	0.563		mg/L		113	80 - 120
Lead	0.500	0.555		mg/L		111	80 - 120
Lithium	0.500	0.560		mg/L		112	80 - 120
Molybdenum	0.500	0.540		mg/L		108	80 - 120
Thallium	1.00	1.06		mg/L		106	80 - 120
Iron	5.00	4.89		mg/L		98	80 - 120
Potassium	25.0	25.4		mg/L		102	80 - 120
Magnesium	25.0	27.5		mg/L		110	80 - 120
Manganese	0.500	0.557		mg/L		111	80 - 120
Sodium	25.0	28.5		mg/L		114	80 - 120
Silicon	1.00	0.910		mg/L		91	80 - 120
Strontium	0.500	0.492		mg/L		98	80 - 120
SiO2, Silica	2.14	1.95		mg/L		91	80 - 120

Lab Sample ID: LCS 180-431559/2-A
Matrix: Water
Analysis Batch: 433538

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 431559

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.500	0.569		mg/L		114	80 - 120
Selenium	1.00	1.18		mg/L		118	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-430169/1-A
Matrix: Water
Analysis Batch: 430328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430169

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/23/23 10:27	03/24/23 12:15	1

Lab Sample ID: LCS 180-430169/2-A
Matrix: Water
Analysis Batch: 430328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00241		mg/L		96	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153570-1

Method: 5310 C-2014 - Total Organic Carbon/Persulfate - Ultrav

Lab Sample ID: MB 180-431710/67
Matrix: Water
Analysis Batch: 431710

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 - Quad	<0.51		1.0	0.51	mg/L			04/06/23 18:12	1

Lab Sample ID: LCS 180-431710/66
Matrix: Water
Analysis Batch: 431710

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 - Quad	20.0	19.4		mg/L		97	85 - 115

Lab Sample ID: 180-153570-3 MS
Matrix: Water
Analysis Batch: 431710

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
Total Organic Carbon - Quad	0.79	J	10.0	10.6		mg/L		98	85 - 115

Lab Sample ID: 180-153570-4 DU
Matrix: Water
Analysis Batch: 431710

Client Sample ID: DUP-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon - Quad	0.94	J	0.583	J F5	mg/L		47	15

Method: EPA 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 180-430333/21
Matrix: Water
Analysis Batch: 430333

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			03/24/23 10:07	1

Lab Sample ID: MB 180-430333/56
Matrix: Water
Analysis Batch: 430333

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			03/24/23 11:02	1

Lab Sample ID: LCS 180-430333/52
Matrix: Water
Analysis Batch: 430333

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	1.99		mg/L		100	90 - 110

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153570-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-429782/1
Matrix: Water
Analysis Batch: 429782

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			03/20/23 15:51	1

Lab Sample ID: LCS 180-429782/2
Matrix: Water
Analysis Batch: 429782

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	665	642		mg/L		97	85 - 115

Lab Sample ID: 180-153570-4 DU
Matrix: Water
Analysis Batch: 429782

Client Sample ID: DUP-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	86		80.0		mg/L		7	10

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-429914/29
Matrix: Water
Analysis Batch: 429914

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			03/21/23 11:47	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/21/23 11:47	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/21/23 11:47	1

Lab Sample ID: LCS 180-429914/28
Matrix: Water
Analysis Batch: 429914

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	254	264		mg/L		104	90 - 110

Lab Sample ID: LLCS 180-429914/27
Matrix: Water
Analysis Batch: 429914

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	15.2	17.4		mg/L		114	75 - 125

Lab Sample ID: 180-153570-3 DU
Matrix: Water
Analysis Batch: 429914

Client Sample ID: APMW-12
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	60		62.2		mg/L		4	20
Bicarbonate Alkalinity as CaCO3	60		62.2		mg/L		4	20

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153570-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: 180-153570-3 DU
Matrix: Water
Analysis Batch: 429914

Client Sample ID: APMW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153570-1

HPLC/IC

Analysis Batch: 430944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153570-3	APMW-12	Total/NA	Water	300.0	
180-153570-4	DUP-06	Total/NA	Water	300.0	
MB 180-430944/6	Method Blank	Total/NA	Water	300.0	
LCS 180-430944/7	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 430169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153570-3	APMW-12	Total/NA	Water	7470A	
180-153570-4	DUP-06	Total/NA	Water	7470A	
MB 180-430169/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-430169/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 430328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153570-3	APMW-12	Total/NA	Water	EPA 7470A	430169
180-153570-4	DUP-06	Total/NA	Water	EPA 7470A	430169
MB 180-430169/1-A	Method Blank	Total/NA	Water	EPA 7470A	430169
LCS 180-430169/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	430169

Prep Batch: 431559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153570-3	APMW-12	Total Recoverable	Water	3005A	
180-153570-4	DUP-06	Total Recoverable	Water	3005A	
MB 180-431559/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-431559/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 433426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-431559/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	431559
LCS 180-431559/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	431559

Analysis Batch: 433538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153570-3	APMW-12	Total Recoverable	Water	EPA 6020B	431559
180-153570-4	DUP-06	Total Recoverable	Water	EPA 6020B	431559
LCS 180-431559/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	431559

Analysis Batch: 433869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153570-3	APMW-12	Total Recoverable	Water	EPA 6020B	431559
180-153570-4	DUP-06	Total Recoverable	Water	EPA 6020B	431559

Analysis Batch: 435707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153570-3	APMW-12	Total Recoverable	Water	EPA 6020B	431559
180-153570-4	DUP-06	Total Recoverable	Water	EPA 6020B	431559

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153570-1

General Chemistry

Analysis Batch: 429782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153570-3	APMW-12	Total/NA	Water	SM 2540C	
180-153570-4	DUP-06	Total/NA	Water	SM 2540C	
MB 180-429782/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-429782/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-153570-4 DU	DUP-06	Total/NA	Water	SM 2540C	

Analysis Batch: 429914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153570-3	APMW-12	Total/NA	Water	SM2320 B	
180-153570-4	DUP-06	Total/NA	Water	SM2320 B	
MB 180-429914/29	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-429914/28	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-429914/27	Lab Control Sample	Total/NA	Water	SM2320 B	
180-153570-3 DU	APMW-12	Total/NA	Water	SM2320 B	

Analysis Batch: 430333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153570-3	APMW-12	Total/NA	Water	EPA 353.2	
180-153570-4	DUP-06	Total/NA	Water	EPA 353.2	
MB 180-430333/21	Method Blank	Total/NA	Water	EPA 353.2	
MB 180-430333/56	Method Blank	Total/NA	Water	EPA 353.2	
LCS 180-430333/52	Lab Control Sample	Total/NA	Water	EPA 353.2	

Analysis Batch: 431710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153570-3	APMW-12	Total/NA	Water	5310 C-2014	
180-153570-4	DUP-06	Total/NA	Water	5310 C-2014	
MB 180-431710/67	Method Blank	Total/NA	Water	5310 C-2014	
LCS 180-431710/66	Lab Control Sample	Total/NA	Water	5310 C-2014	
180-153570-3 MS	APMW-12	Total/NA	Water	5310 C-2014	
180-153570-4 DU	DUP-06	Total/NA	Water	5310 C-2014	


Field Service / Mobile Lab

Analysis Batch: 431428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153570-3	APMW-12	Total/NA	Water	Field Sampling	
180-153570-4	DUP-06	Total/NA	Water	Field Sampling	

Chain of Custody Record



Client Information		Sampler:		Lab PM		Carrier Tracking No(s)		GOC No.										
Client Contact		Phone		Brown, Shaili				Page										
SCS Contacts		E-Mail		shaili.brown@eurofinset.com				Job #										
Company		SCS		SCS				Preservation Codes:										
Address		TAT Requested (days):		Due Date Requested:				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		PO #		WO #				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		Project #		Project Name				Special Instructions/Note:										
AL, 35243		18020186		Plant Watson														
Phone		SSOW#		Site														
205-992-6283																		
Email																		
SCS Contacts																		
Plant Watson																		
Site																		
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oli, BT=tissue, Ad=air)	Field Filtered Sample (Yes or No)	2540C Total Dissolved Solids	300 28Day Chloride Fluoride Sulfate Bromide	6020B/470 Custom 23 (Appl/APPV+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:
APMW-2	3-14-23	0913	G	W	X	X	X	X	X	X	X	X	X	X	X	8		
APM W-11	3-14-23	1058	G	W	X	X	X	X	X	X	X	X	X	X	X	8		
APMW-12	3-14-23	1335	G	W	X	X	X	X	X	X	X	X	X	X	X	8		
Dup-06	3-14-23	0958	G	W	X	X	X	X	X	X	X	X	X	X	X	8		
 180-153570 Chain of Custody																		
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 Deliverable Requested: I, II, III, IV, Other (specify)																		
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:																		
Relinquished by: <i>Mary Ann</i> Date/Time: 3-14-23 1523 Company: <i>ROH ENV</i> Relinquished by: <i>Mary Ann</i> Date/Time: 3-15-23 0150 Company: <i>EPHANE</i> Relinquished by: _____ Date/Time: _____ Company: _____																		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks:																		



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ORIGIN ID: BIXA (402) 517-0342
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 14MAR23
ACTWGT: 59.00 LB
CAD: 6993799/SSFE2401
DIMS: 24x15x12 IN
BILL THIRD PARTY

ORIGIN ID: BIXA (402) 517-0342
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP D
ACTWGT
CAD: 6
DIMS: 2
BILL TH



Part # 1562949394402928EXP 12/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(402) 517-0342

REF:

NO: PO: DEPT:

A
10:30 4059
RT 198
FZ 197

Uncorrected temp 2.5 C
Thermometer ID 18
CF Initials MD
PT-WI-SR-001 effective 11/8/18

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(402) 517-0342

REF:

NO: PO: DEPT:

Uncorrected temp 2.5 C
Thermometer ID 18
CF Initials MD
PT-WI-SR-001 effective 11/8/18



1 of 2

TRK# 3957 6281 4059
0201

MASTER

XN AGCA

WED - 15 MAR 10:30
PRIORITY OVERNIGHT

15238
PA-US P

2 of 2

MPS# 3957 6281 4060
0269

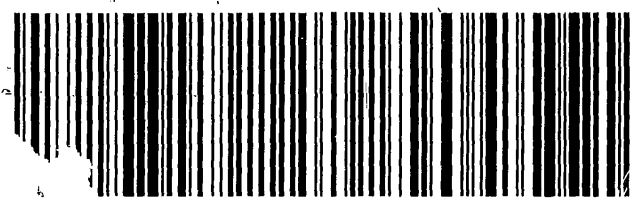
Mstr# 3957 6281 4059

XN AGCA

WED - 15 MAR 10:30A
PRIORITY OVERNIGHT

0201

15238
PA-US PIT



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-153570-1

Login Number: 153570

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





ANALYTICAL REPORT

PREPARED FOR

Attn: Robert (Trey) Singleton
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Generated 5/24/2023 2:34:13 PM Revision 1

JOB DESCRIPTION

Plant Watson Ash Pond

JOB NUMBER

180-153570-2

Eurofins Pittsburgh

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Pittsburgh and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Pittsburgh Project Manager or designee who has signed this report.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



Authorized for release by
Shali Brown, Project Manager II
Shali.Brown@et.eurofinsus.com
(615)301-5031

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Revision 1



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions/Glossary	5
Certification Summary	6
Sample Summary	7
Method Summary	8
Lab Chronicle	9
Client Sample Results	10
QC Sample Results	12
QC Association Summary	13
Chain of Custody	14
Receipt Checklists	17

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153570-2

Job ID: 180-153570-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-153570-2

052423 Revised report at client request to remove the following sample because it was collected and reported in a previous report:: APMW-2 (180-153570-1) and APMW-11 (180-153570-2), This report replaces the report previously issued on 041723.

Receipt

The samples were received on 3/15/2023 9:50 AM. 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 2.5°C and 2.5°C

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 batch 604617 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-12 (180-153570-3), DUP-06 (180-153570-4), (LCS 160-604617/2-A), (MB 160-604617/1-A), (280-173679-B-6-A), (280-173679-B-6-B MS) and (280-173679-B-6-C MSD)

Method 9320_Ra228: Radium-228 prep batch 160-604706: 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-12 (180-153570-3), DUP-06 (180-153570-4), (LCS 160-604706/2-A), (MB 160-604706/1-A), (280-173679-B-6-D), (280-173679-B-6-E MS) and (280-173679-B-6-F MSD)

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: 180-153570-2

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: 180-153570-2

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	05-17-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-23
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153570-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-153570-3	APMW-12	Water	03/14/23 13:35	03/15/23 09:50
180-153570-4	DUP-06	Water	03/14/23 09:58	03/15/23 09:50

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Method Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153570-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153570-2

Client Sample ID: APMW-12

Lab Sample ID: 180-153570-3

Date Collected: 03/14/23 13:35

Matrix: Water

Date Received: 03/15/23 09:50

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			1007.60 mL	1.0 g	604617	03/22/23 11:47	DJP	EET SL
Total/NA	Analysis	9315		1			607421	04/14/23 14:43	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1007.60 mL	1.0 g	604706	03/22/23 12:28	DJP	EET SL
Total/NA	Analysis	9320		1			607021	04/12/23 12:01	FLC	EET SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			607852	04/17/23 15:29	SCB	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-06

Lab Sample ID: 180-153570-4

Date Collected: 03/14/23 09:58

Matrix: Water

Date Received: 03/15/23 09:50

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			996.96 mL	1.0 g	604617	03/22/23 11:47	DJP	EET SL
Total/NA	Analysis	9315		1			607421	04/14/23 14:44	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			996.96 mL	1.0 g	604706	03/22/23 12:28	DJP	EET SL
Total/NA	Analysis	9320		1			607021	04/12/23 12:01	FLC	EET SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			607852	04/17/23 15:29	SCB	EET SL
Instrument ID: NOEQUIP										

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Analyst References:

Lab: EET SL

Batch Type: Prep

DJP = Dalton Pieper

Batch Type: Analysis

FLC = Fernando Cruz

SCB = Sarah Bernsen

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153570-2

Client Sample ID: APMW-12

Lab Sample ID: 180-153570-3

Date Collected: 03/14/23 13:35

Matrix: Water

Date Received: 03/15/23 09:50

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.180		0.123	0.125	1.00	0.170	pCi/L	03/22/23 11:47	04/14/23 14:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		30 - 110					03/22/23 11:47	04/14/23 14:43	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0480	U	0.206	0.206	1.00	0.376	pCi/L	03/22/23 12:28	04/12/23 12:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		30 - 110					03/22/23 12:28	04/12/23 12:01	1
Y Carrier	93.8		30 - 110					03/22/23 12:28	04/12/23 12:01	1

Method: TAL-STL 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	0.228	U	0.240	0.241	5.00	0.376	pCi/L		04/17/23 15:29	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153570-2

Client Sample ID: DUP-06
Date Collected: 03/14/23 09:58
Date Received: 03/15/23 09:50

Lab Sample ID: 180-153570-4
Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.216		0.139	0.140	1.00	0.183	pCi/L	03/22/23 11:47	04/14/23 14:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		30 - 110					03/22/23 11:47	04/14/23 14:44	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.119	U	0.274	0.274	1.00	0.483	pCi/L	03/22/23 12:28	04/12/23 12:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		30 - 110					03/22/23 12:28	04/12/23 12:01	1
Y Carrier	89.7		30 - 110					03/22/23 12:28	04/12/23 12:01	1

Method: TAL-STL 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	0.335	U	0.307	0.308	5.00	0.483	pCi/L		04/17/23 15:29	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153570-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-604617/1-A
Matrix: Water
Analysis Batch: 607421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604617

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03823	U	0.0834	0.0834	1.00	0.155	pCi/L	03/22/23 11:47	04/14/23 14:41	1
Carrier	MB	MB	Limits				Prepared		Analyzed	
Ba Carrier	%Yield	Qualifier	30 - 110				03/22/23 11:47		04/14/23 14:41	
	91.5									

Lab Sample ID: LCS 160-604617/2-A
Matrix: Water
Analysis Batch: 607421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604617

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	
				Uncert. (2σ+/-)						
Radium-226	11.3	10.43		1.18	1.00	0.142	pCi/L	92	75 - 125	
Carrier	LCS	LCS	Limits							
Ba Carrier	%Yield	Qualifier	30 - 110							
	96.1									

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-604706/1-A
Matrix: Water
Analysis Batch: 607021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 604706

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.02768	U	0.257	0.257	1.00	0.494	pCi/L	03/22/23 12:28	04/12/23 11:59	1
Carrier	MB	MB	Limits				Prepared		Analyzed	
Ba Carrier	%Yield	Qualifier	30 - 110				03/22/23 12:28		04/12/23 11:59	
	91.5									
Y Carrier	81.5		30 - 110				03/22/23 12:28		04/12/23 11:59	

Lab Sample ID: LCS 160-604706/2-A
Matrix: Water
Analysis Batch: 607021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 604706

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	
				Uncert. (2σ+/-)						
Radium-228	8.04	8.045		1.13	1.00	0.409	pCi/L	100	75 - 125	
Carrier	LCS	LCS	Limits							
Ba Carrier	%Yield	Qualifier	30 - 110							
	96.1									
Y Carrier	80.4		30 - 110							

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Ash Pond

Job ID: 180-153570-2

Rad

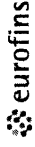
Prep Batch: 604617


Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153570-3	APMW-12	Total/NA	Water	PrecSep-21	
180-153570-4	DUP-06	Total/NA	Water	PrecSep-21	
MB 160-604617/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-604617/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 604706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153570-3	APMW-12	Total/NA	Water	PrecSep_0	
180-153570-4	DUP-06	Total/NA	Water	PrecSep_0	
MB 160-604706/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-604706/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Chain of Custody Record



Client Information		Sampler:		Carrier Tracking No(s)		GOC No.										
Client Contact		Lab PM		Brown, Shaili												
SCS Contacts		Phone		E-Mail		Page										
SCS		850-336-0192		shaili.brown@eurofinset.com		Job #										
Address		Due Date Requested:		Analysis Requested												
3535 Colonnade Pkwy Bln S 530 EC		TAT Requested (days):		Total Number of Containers												
City:		PO #		2540 Total Dissolved Solids												
Birmingham		WO #		300 28Day Chloride Fluoride Sulfate Bromide												
State, Zip		Project #		353.2 Nitrate/Nitrite NOX (pres)												
AL, 35243		18020186		5310C Total Organic Carbon												
Phone:		SSOW#		2320B Alkalinity, Total, Carb, Bicarb												
205-992-6283				9315 Ra226 Radium 226												
Email				9320 Ra228 Radium 228												
SCS Contacts				Combined RAD												
Plant Watson				2540 Total Suspended Solids												
Site				Special Instructions/Note:												
				<div style="text-align: center;">  180-153570 Chain of Custody </div>												
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=tissue, As=air)	Field Filtered Sample (Yes or No) <th>300 28Day Chloride Fluoride Sulfate Bromide <th>6020B/470 Custom 23 (Appl/APPV+9) + Mercury <th>+ Fe Mg Na Al Mn K Sr Si and Silica <th>353.2 Nitrate/Nitrite NOX (pres) <th>5310C Total Organic Carbon <th>2320B Alkalinity, Total, Carb, Bicarb <th>9315 Ra226 Radium 226 <th>9320 Ra228 Radium 228 <th>Combined RAD <th>2540 Total Suspended Solids <th>Special Instructions/Note:</th> </th></th></th></th></th></th></th></th></th></th>	300 28Day Chloride Fluoride Sulfate Bromide <th>6020B/470 Custom 23 (Appl/APPV+9) + Mercury <th>+ Fe Mg Na Al Mn K Sr Si and Silica <th>353.2 Nitrate/Nitrite NOX (pres) <th>5310C Total Organic Carbon <th>2320B Alkalinity, Total, Carb, Bicarb <th>9315 Ra226 Radium 226 <th>9320 Ra228 Radium 228 <th>Combined RAD <th>2540 Total Suspended Solids <th>Special Instructions/Note:</th> </th></th></th></th></th></th></th></th></th>	6020B/470 Custom 23 (Appl/APPV+9) + Mercury <th>+ Fe Mg Na Al Mn K Sr Si and Silica <th>353.2 Nitrate/Nitrite NOX (pres) <th>5310C Total Organic Carbon <th>2320B Alkalinity, Total, Carb, Bicarb <th>9315 Ra226 Radium 226 <th>9320 Ra228 Radium 228 <th>Combined RAD <th>2540 Total Suspended Solids <th>Special Instructions/Note:</th> </th></th></th></th></th></th></th></th>	+ Fe Mg Na Al Mn K Sr Si and Silica <th>353.2 Nitrate/Nitrite NOX (pres) <th>5310C Total Organic Carbon <th>2320B Alkalinity, Total, Carb, Bicarb <th>9315 Ra226 Radium 226 <th>9320 Ra228 Radium 228 <th>Combined RAD <th>2540 Total Suspended Solids <th>Special Instructions/Note:</th> </th></th></th></th></th></th></th>	353.2 Nitrate/Nitrite NOX (pres) <th>5310C Total Organic Carbon <th>2320B Alkalinity, Total, Carb, Bicarb <th>9315 Ra226 Radium 226 <th>9320 Ra228 Radium 228 <th>Combined RAD <th>2540 Total Suspended Solids <th>Special Instructions/Note:</th> </th></th></th></th></th></th>	5310C Total Organic Carbon <th>2320B Alkalinity, Total, Carb, Bicarb <th>9315 Ra226 Radium 226 <th>9320 Ra228 Radium 228 <th>Combined RAD <th>2540 Total Suspended Solids <th>Special Instructions/Note:</th> </th></th></th></th></th>	2320B Alkalinity, Total, Carb, Bicarb <th>9315 Ra226 Radium 226 <th>9320 Ra228 Radium 228 <th>Combined RAD <th>2540 Total Suspended Solids <th>Special Instructions/Note:</th> </th></th></th></th>	9315 Ra226 Radium 226 <th>9320 Ra228 Radium 228 <th>Combined RAD <th>2540 Total Suspended Solids <th>Special Instructions/Note:</th> </th></th></th>	9320 Ra228 Radium 228 <th>Combined RAD <th>2540 Total Suspended Solids <th>Special Instructions/Note:</th> </th></th>	Combined RAD <th>2540 Total Suspended Solids <th>Special Instructions/Note:</th> </th>	2540 Total Suspended Solids <th>Special Instructions/Note:</th>	Special Instructions/Note:
APMW-2	3-14-23	0913	G	W	X	X	X	X	X	X	X	X	X	X	X	
APM W-11	3-14-23	1058	G	W	X	X	X	X	X	X	X	X	X	X	X	
APMW-12	3-14-23	1335	G	W	X	X	X	X	X	X	X	X	X	X	X	
DUP-06	3-14-23	0958	G	W	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 Deliverable Requested: I, II, III, IV, Other (specify)																
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:																
Relinquished by: <i>Mary Ann</i>																
Relinquished by: <i>Paul O'Neil</i>																
Relinquished by:																
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Custody Seal No																



1
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13

ORIGIN ID: BIXA (402) 517-0342
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 14MAR23
ACTWGT: 59.00 LB
CAD: 6993799/SSFE2401
DIMS: 24x15x12 IN
BILL THIRD PARTY

ORIGIN ID: BIXA (402) 517-0342
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP D
ACTWGT
CAD: 6
DIMS: 2
BILL TH



Part # 15629435442928EXP 12/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(402) 517-0342

REF:

NO: PO: DEPT:



Uncorrected temp
Thermometer ID

2.5 °C
18

CF Initials MD

PT-WI-SR-001 effective 11/8/18

RT 198
FZ 197
A
10:30
4059

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(402) 517-0342

REF:

NO: PO: DEPT:



Uncorrected temp
Thermometer ID

2.5 °C
18

CF Initials MD

PT-WI-SR-001 effective 11/8/18

FedEx
Express



AN1011108201827

1 of 2

TRK# 3957 6281 4059
0201

MASTER

XN AGCA

WED - 15 MAR 10:30
PRIORITY OVERNIGHT

15238

PA-US

2 of 2

MPS# 3957 6281 4060
0269

Mstr# 3957 6281 4059

0201

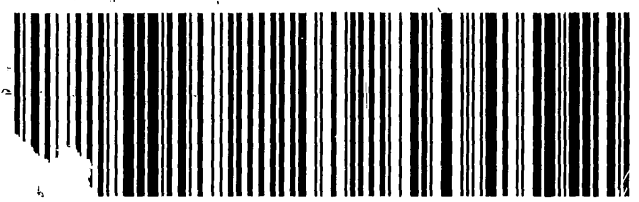
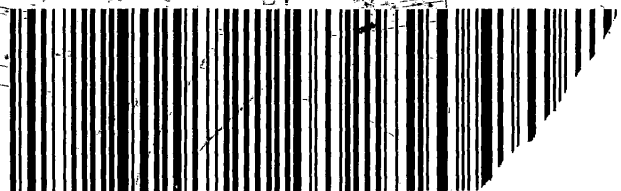
XN AGCA

WED - 15 MAR 10:30A
PRIORITY OVERNIGHT

15238

PA-US

PIT



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Lab PM: Brown, Shali		Carrier Tracking No(s): COC No: 180-482613.1							
Client Contact: Shipping/Receiving		Phone: E-Mail: Shali.Brown@et.eurofins.com		Page: Page 1 of 1							
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 180-153570-2							
Address: 13715 Rider Trail North, Earth City, MO, 63045		Due Date Requested: 4/17/2023		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, Y - Trizma, Z - other (specify)							
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		TAT Requested (days):		Total Number of Containers: 2							
Email:		PO #:		Analysis Requested							
WO #:		Project #:		Special Instructions/Note:							
Plant Name: Plant Watson Ash Pond		Project #:									
Site:		SSOW#:									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Other)	Preservation Code	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	
APMW-2 (180-153570-1)	3/14/23	09:13 Eastern	Water	Water		X	X	X			
APMW-11 (180-153570-2)	3/14/23	10:58 Eastern	Water	Water		X	X	X			
APMW-12 (180-153570-3)	3/14/23	13:35 Eastern	Water	Water		X	X	X			
DUP-06 (180-153570-4)	3/14/23	09:58 Eastern	Water	Water		X	X	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>											
<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: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Cooler Temperature(s) °C and Other Remarks:</p>											



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-153570-2

Login Number: 153570

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-153570-2

Login Number: 153570

List Number: 2

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 03/20/23 12:49 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****PREPARED FOR**

Attn: Robert (Trey) Singleton
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Generated 4/24/2023 4:29:25 PM

JOB DESCRIPTION

Plant Watson Surface Water

JOB NUMBER

180-153194-1

Eurofins Pittsburgh

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Pittsburgh and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Pittsburgh Project Manager or designee who has signed this report.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



Authorized for release by
Shali Brown, Project Manager II
Shali.Brown@et.eurofinsus.com
(615)301-5031

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Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions/Glossary	7
Certification Summary	8
Sample Summary	9
Method Summary	10
Lab Chronicle	11
Client Sample Results	33
QC Sample Results	83
QC Association Summary	104
Chain of Custody	116
Receipt Checklists	206

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Job ID: 180-153194-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-153194-1

Receipt

The samples were received on 3/8/2023 9:28 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 11 coolers at receipt time were 2.4°C, 2.6°C, 2.6°C, 2.6°C, 2.7°C, 2.8°C, 2.8°C, 3.1°C, 3.1°C, 3.3°C and 3.8°C

Receipt Exceptions

Sample Tech observed that Total and Dissolved containers per sample were not used consistently. Sample Tech was able to determine the Total and Dissolved Sample due to Dissolved samples being labeled 'FF.' Sample Tech logged and labeled Containers by that distinction. SW-1-1' (180-153194-1), SW-1-1' (180-153194-2), SW-1-7' (180-153194-3), SW-1-7' (180-153194-4), SW-2-1' (180-153194-5), SW-2-1' (180-153194-6), SW-2-7' (180-153194-7), SW-2-7' (180-153194-8), SW-3-1' (180-153194-9), SW-3-1' (180-153194-10), SW-3-4' (180-153194-11), SW-3-4' (180-153194-12), SW-4-1.5 (180-153194-13), SW-4-1.5 (180-153194-14), SW-5-1' (180-153194-15), SW-5-1' (180-153194-16), SW-5-13' (180-153194-17), SW-5-13' (180-153194-18), SW-6-1' (180-153194-19), SW-6-1' (180-153194-20), SW-6-9.5 (180-153194-21), SW-6-9.5 (180-153194-22), SW-9-1' (180-153194-23), SW-9-1' (180-153194-24), SW-9-4' (180-153194-25), SW-9-4' (180-153194-26), SW-10-2' (180-153194-27), SW-10-2' (180-153194-28), SW-11-1' (180-153194-29), SW-11-1' (180-153194-30), SW-12-1' (180-153194-31), SW-12-1' (180-153194-32), SW-13-1' (180-153194-33), SW-13-1' (180-153194-34), SW-14-1.5 (180-153194-35), SW-14-1.5 (180-153194-36), SW-15-1.5 (180-153194-37), SW-15-1.5 (180-153194-38), SW-16-1.5 (180-153194-39), SW-16-1.5 (180-153194-40), EB-01 (180-153194-41), SW-17-1' (180-153194-42), SW-17-1' (180-153194-43), FB-01 (180-153194-44), DUP-01 (180-153194-45), DUP-01 (180-153194-46), DUP-02 (180-153194-47), DUP-02 (180-153194-48), DUP-03 (180-153194-49) and DUP-03 (180-153194-50)

HPLC/IC

Method 300_ORGFM_28D: Due to the high concentration of chloride, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 180-429105 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 300_ORGFM_28D: The following sample was diluted due to the nature of the sample matrix: SW-6-9.5 (180-153194-21) and SW-6-9.5 (180-153194-22). Elevated reporting limits (RLs) are provided. Dilutions based on conductivity results of sample.

Method 300_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: SW-1-1' (180-153194-1), SW-1-1' (180-153194-2), SW-1-7' (180-153194-3), SW-1-7' (180-153194-4), SW-2-1' (180-153194-5), SW-2-1' (180-153194-6), SW-2-7' (180-153194-7), SW-2-7' (180-153194-8), SW-3-1' (180-153194-9), SW-3-1' (180-153194-10), SW-3-4' (180-153194-11), SW-3-4' (180-153194-12), SW-4-1.5 (180-153194-13), SW-4-1.5 (180-153194-14), SW-5-13' (180-153194-17) and SW-5-13' (180-153194-18) at 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5 and 2.5. Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-429105 and 180-429259 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: SW-6-9.5 (180-153194-21), SW-6-9.5 (180-153194-22), SW-13-1' (180-153194-33), SW-13-1' (180-153194-34), SW-14-1.5 (180-153194-35), SW-14-1.5 (180-153194-36), SW-15-1.5 (180-153194-37), SW-15-1.5 (180-153194-38), SW-16-1.5 (180-153194-39) and SW-16-1.5 (180-153194-40) at 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5 and 2.5. Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: SW-17-1' (180-153194-42), SW-17-1' (180-153194-43), DUP-01 (180-153194-45), DUP-01 (180-153194-46) and DUP-02 (180-153194-47) at 2.5, 2.5, 2.5, 2.5 and 2.5. Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-430387 and 180-430456 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Job ID: 180-153194-1 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

Method 300_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: SW-6-9.5 (180-153194-21) and SW-6-9.5 (180-153194-22) at 2.5 and 2.5. Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: SW-15-1.5 (180-153194-37), SW-15-1.5 (180-153194-38), SW-16-1.5 (180-153194-39), SW-16-1.5 (180-153194-40) and DUP-02 (180-153194-48) at 2.5, 2.5, 2.5, 2.5 and 2.5. Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: SW-4-1.5 (180-153194-13), SW-4-1.5 (180-153194-14), SW-5-13' (180-153194-17) and SW-5-13' (180-153194-18) at 2.5, 2.5, 2.5 and 2.5. Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. SW-4-1.5 (180-153194-13), SW-4-1.5 (180-153194-14), SW-5-13' (180-153194-17), SW-5-13' (180-153194-18), SW-6-1' (180-153194-19) and SW-6-1' (180-153194-20)

Method 300_ORGFM_28D: The following samples were diluted due to the conductivity nature of the sample matrix: SW-4-1.5 (180-153194-13), SW-4-1.5 (180-153194-14), SW-5-13' (180-153194-17) and SW-5-13' (180-153194-18). Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: Due to the high concentration of chloride, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 180-429105 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 300_ORGFM_28D: The following sample was diluted due to the nature of the sample matrix: SW-6-9.5 (180-153194-21). Elevated reporting limits (RLs) are provided. Dilutions based on conductivity results of sample.

Method 300_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: SW-1-1' (180-153194-1), SW-1-1' (180-153194-2), SW-1-7' (180-153194-3), SW-1-7' (180-153194-4), SW-2-1' (180-153194-5), SW-2-1' (180-153194-6), SW-2-7' (180-153194-7), SW-2-7' (180-153194-8), SW-3-1' (180-153194-9), SW-3-1' (180-153194-10), SW-3-4' (180-153194-11), SW-3-4' (180-153194-12), SW-4-1.5 (180-153194-13), SW-4-1.5 (180-153194-14), SW-5-13' (180-153194-17) and SW-5-13' (180-153194-18) at 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5 and 2.5. Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-429105 and 180-429259 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D: The following sample was diluted due to the nature of the sample matrix: SW-6-9.5 (180-153194-22). Elevated reporting limits (RLs) are provided. Dilutions based on conductivity results of sample.

Method 300_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: SW-6-9.5 (180-153194-21), SW-6-9.5 (180-153194-22), SW-13-1' (180-153194-33), SW-13-1' (180-153194-34), SW-14-1.5 (180-153194-35), SW-14-1.5 (180-153194-36), SW-15-1.5 (180-153194-37), SW-15-1.5 (180-153194-38), SW-16-1.5 (180-153194-39) and SW-16-1.5 (180-153194-40) at 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5 and 2.5. Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: SW-17-1' (180-153194-42), SW-17-1' (180-153194-43), DUP-01 (180-153194-45), DUP-01 (180-153194-46) and DUP-02 (180-153194-47) at 2.5, 2.5, 2.5, 2.5 and 2.5. Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-430387 and 180-430456 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: SW-6-9.5 (180-153194-21) and

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Job ID: 180-153194-1 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

SW-6-9.5 (180-153194-22) at 2.5 and 2.5. Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: SW-15-1.5 (180-153194-37), SW-15-1.5 (180-153194-38), SW-16-1.5 (180-153194-39), SW-16-1.5 (180-153194-40) and DUP-02 (180-153194-48) at 2.5, 2.5, 2.5, 2.5 and 2.5. Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The following samples were diluted due to the nature of the sample matrix: SW-4-1.5 (180-153194-13), SW-4-1.5 (180-153194-14), SW-5-13' (180-153194-17) and SW-5-13' (180-153194-18) at 2.5, 2.5, 2.5 and 2.5. Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. SW-4-1.5 (180-153194-13), SW-4-1.5 (180-153194-14), SW-5-13' (180-153194-17), SW-5-13' (180-153194-18), SW-6-1' (180-153194-19) and SW-6-1' (180-153194-20)

Method 300_ORGFM_28D: The following samples were diluted due to the conductivity nature of the sample matrix: SW-4-1.5 (180-153194-13), SW-4-1.5 (180-153194-14), SW-5-13' (180-153194-17) and SW-5-13' (180-153194-18). 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.

Metals

Method 6020B: The post digestion spike % recovery for barium associated with batch 180-430351 was outside of control limits. The associated sample is: SW-1-1' (180-153194-1).

Method 6020B: The continuing calibration verification (CCV) associated with batch 180-432609 recovered above the upper control limit for beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: EB-01 (180-153194-41), (CCV 180-432609/128), (LCS 180-429462/2-A), (MB 180-429462/1-A) and (180-153194-D-41-A SD ^5).

Method 6020B: The continuing calibration verification (CCV) associated with batch 180-432609 recovered above the upper control limit for beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SW-6-9.5 (180-153194-21), SW-6-9.5 (180-153194-22), SW-9-1' (180-153194-23), SW-9-1' (180-153194-24), SW-9-4' (180-153194-25), SW-9-4' (180-153194-26), SW-10-2' (180-153194-27), SW-10-2' (180-153194-28), DUP-02 (180-153194-48), DUP-03 (180-153194-49), DUP-03 (180-153194-50), (CCV 180-432609/161), (CCV 180-432609/172), (LCS 180-429463/2-A), (MB 180-429463/1-A), (180-153194-D-23-B MS), (180-153194-D-23-C MSD), (180-153194-D-23-A PDS) and (180-153194-D-23-A SD ^5).

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.

Field Service / Mobile Lab

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 Surface Water

Job ID: 180-153194-1

Qualifiers

HPLC/IC

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.
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.

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 Surface Water

Job ID: 180-153194-1

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	06-27-23
California	State	2891	04-30-23
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	06-30-23
Kansas	NELAP	E-10350	01-31-24
Kentucky (UST)	State	162013	04-30-23
Kentucky (WW)	State	KY98043	12-31-23
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-23
New Hampshire	NELAP	2030	04-04-24
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-01-24
North Carolina (WW/SW)	State	434	12-31-23
North Dakota	State	R-227	04-30-23
Oregon	NELAP	PA-2151	02-06-24
Pennsylvania	NELAP	02-00416	04-30-24
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-23
Texas	NELAP	T104704528	03-31-24
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-31-23
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	03-31-23 *
Wisconsin	State	998027800	08-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Sample Summary

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-153194-1	SW-1-1'	Water	03/06/23 17:39	03/08/23 09:28
180-153194-2	SW-1-1'	Water	03/06/23 17:56	03/08/23 09:28
180-153194-3	SW-1-7'	Water	03/06/23 18:13	03/08/23 09:28
180-153194-4	SW-1-7'	Water	03/06/23 18:25	03/08/23 09:28
180-153194-5	SW-2-1'	Water	03/06/23 16:50	03/08/23 09:28
180-153194-6	SW-2-1'	Water	03/06/23 17:03	03/08/23 09:28
180-153194-7	SW-2-7'	Water	03/06/23 17:14	03/08/23 09:28
180-153194-8	SW-2-7'	Water	03/06/23 17:23	03/08/23 09:28
180-153194-9	SW-3-1'	Water	03/06/23 09:12	03/08/23 09:28
180-153194-10	SW-3-1'	Water	03/06/23 09:25	03/08/23 09:28
180-153194-11	SW-3-4'	Water	03/06/23 09:39	03/08/23 09:28
180-153194-12	SW-3-4'	Water	03/06/23 09:50	03/08/23 09:28
180-153194-13	SW-4-1.5	Water	03/06/23 11:37	03/08/23 09:28
180-153194-14	SW-4-1.5	Water	03/06/23 11:45	03/08/23 09:28
180-153194-15	SW-5-1'	Water	03/06/23 08:03	03/08/23 09:28
180-153194-16	SW-5-1'	Water	03/06/23 08:19	03/08/23 09:28
180-153194-17	SW-5-13'	Water	03/06/23 08:35	03/08/23 09:28
180-153194-18	SW-5-13'	Water	03/06/23 08:53	03/08/23 09:28
180-153194-19	SW-6-1'	Water	03/06/23 09:21	03/08/23 09:28
180-153194-20	SW-6-1'	Water	03/06/23 09:38	03/08/23 09:28
180-153194-21	SW-6-9.5	Water	03/06/23 09:53	03/08/23 09:28
180-153194-22	SW-6-9.5	Water	03/06/23 10:10	03/08/23 09:28
180-153194-23	SW-9-1'	Water	03/06/23 13:06	03/08/23 09:28
180-153194-24	SW-9-1'	Water	03/06/23 13:22	03/08/23 09:28
180-153194-25	SW-9-4'	Water	03/06/23 13:31	03/08/23 09:28
180-153194-26	SW-9-4'	Water	03/06/23 13:45	03/08/23 09:28
180-153194-27	SW-10-2'	Water	03/06/23 12:31	03/08/23 09:28
180-153194-28	SW-10-2'	Water	03/06/23 12:48	03/08/23 09:28
180-153194-29	SW-11-1'	Water	03/06/23 12:08	03/08/23 09:28
180-153194-30	SW-11-1'	Water	03/06/23 11:51	03/08/23 09:28
180-153194-31	SW-12-1'	Water	03/06/23 10:42	03/08/23 09:28
180-153194-32	SW-12-1'	Water	03/06/23 11:12	03/08/23 09:28
180-153194-33	SW-13-1'	Water	03/06/23 12:21	03/08/23 09:28
180-153194-34	SW-13-1'	Water	03/06/23 12:39	03/08/23 09:28
180-153194-35	SW-14-1.5	Water	03/06/23 13:14	03/08/23 09:28
180-153194-36	SW-14-1.5	Water	03/06/23 13:29	03/08/23 09:28
180-153194-37	SW-15-1.5	Water	03/06/23 13:50	03/08/23 09:28
180-153194-38	SW-15-1.5	Water	03/06/23 14:10	03/08/23 09:28
180-153194-39	SW-16-1.5	Water	03/06/23 14:48	03/08/23 09:28
180-153194-40	SW-16-1.5	Water	03/06/23 15:08	03/08/23 09:28
180-153194-41	EB-01	Water	03/06/23 08:16	03/08/23 09:28
180-153194-42	SW-17-1'	Water	03/06/23 10:38	03/08/23 09:28
180-153194-43	SW-17-1'	Water	03/06/23 10:57	03/08/23 09:28
180-153194-44	FB-01	Water	03/06/23 08:13	03/08/23 09:28
180-153194-45	DUP-01	Water	03/06/23 11:21	03/08/23 09:28
180-153194-46	DUP-01	Water	03/06/23 11:39	03/08/23 09:28
180-153194-47	DUP-02	Water	03/06/23 16:39	03/08/23 09:28
180-153194-48	DUP-02	Water	03/06/23 16:56	03/08/23 09:28
180-153194-49	DUP-03	Water	03/06/23 09:42	03/08/23 09:28
180-153194-50	DUP-03	Water	03/06/23 10:12	03/08/23 09:28

Method Summary

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET PIT
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	EET PIT
EPA 6020B	Metals (ICP/MS)	SW846	EET PIT
EPA 7470A	Mercury (CVAA)	SW846	EET PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PIT
Field Sampling	Field Sampling	EPA	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
7470A	Preparation, Mercury	SW846	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-1-1'
Date Collected: 03/06/23 17:39
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-1
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		2.5	1 mL	1 mL	429105	03/14/23 18:00	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430351	03/24/23 13:32	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	432098	04/12/23 14:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432466	04/14/23 13:04	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	429853	03/21/23 09:01	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 17:06	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	428845	03/10/23 15:42	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			431333	03/06/23 17:39	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-1-1'
Date Collected: 03/06/23 17:56
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-2
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		2.5	1 mL	1 mL	429105	03/14/23 18:15	SNL	EET PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			430351	03/24/23 13:58	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			431774	04/07/23 09:58	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	429853	03/21/23 09:01	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			429969	03/21/23 17:09	RJR	EET PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	50 mL	100 mL	428845	03/10/23 15:42	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-1-7'
Date Collected: 03/06/23 18:13
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-3
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		2.5	1 mL	1 mL	429105	03/14/23 18:30	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430351	03/24/23 14:01	RSK	EET PIT
Instrument ID: A										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-1-7'
Date Collected: 03/06/23 18:13
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-3
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			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431774	04/07/23 10:01	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	429853	03/21/23 09:01	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 17:10	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	428845	03/10/23 15:42	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			431333	03/06/23 18:13	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-1-7'
Date Collected: 03/06/23 18:25
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-4
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		2.5	1 mL	1 mL	429105	03/14/23 18:45	SNL	EET PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			430351	03/24/23 14:05	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			431774	04/07/23 10:05	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	429853	03/21/23 09:01	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			429969	03/21/23 17:11	RJR	EET PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	50 mL	100 mL	428845	03/10/23 15:42	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-2-1'
Date Collected: 03/06/23 16:50
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-5
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		2.5	1 mL	1 mL	429105	03/14/23 18:59	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430351	03/24/23 14:09	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431774	04/07/23 10:09	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	429853	03/21/23 09:01	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 17:12	RJR	EET PIT
Instrument ID: HGZ										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-2-1'
Date Collected: 03/06/23 16:50
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-5
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	SM 2540C		1	100 mL	100 mL	428840	03/10/23 14:54	LWM	EET PIT
Total/NA	Analysis	Field Sampling		1			431333	03/06/23 16:50	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-2-1'
Date Collected: 03/06/23 17:03
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-6
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		2.5	1 mL	1 mL	429105	03/14/23 19:44	SNL	EET PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			430351	03/24/23 14:13	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			431774	04/07/23 10:24	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	429853	03/21/23 09:01	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			429969	03/21/23 17:13	RJR	EET PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	428840	03/10/23 14:54	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-2-7'
Date Collected: 03/06/23 17:14
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-7
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	300.0		2.5	1 mL	1 mL	429105	03/14/23 19:59	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430351	03/24/23 14:16	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431774	04/07/23 10:27	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	429853	03/21/23 09:01	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 17:18	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	428840	03/10/23 14:54	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			431333	03/06/23 17:14	FDS	EET PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-2-7'
Date Collected: 03/06/23 17:23
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-8
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		2.5	1 mL	1 mL	429105	03/14/23 20:14	SNL	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			430351	03/24/23 14:20	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			431774	04/07/23 10:31	RSK	EET PIT
Dissolved	Prep	7470A			25 mL	25 mL	429853	03/21/23 09:01	RJR	EET PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGZ		1			429969	03/21/23 17:19	RJR	EET PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	428840	03/10/23 14:54	LWM	EET PIT

Client Sample ID: SW-3-1'
Date Collected: 03/06/23 09:12
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-9
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 Instrument ID: CHICS2100B		2.5	1 mL	1 mL	429105	03/14/23 20:29	SNL	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			430351	03/24/23 14:31	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			431774	04/07/23 10:35	RSK	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429853	03/21/23 09:01	RJR	EET PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			429969	03/21/23 17:20	RJR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	50 mL	100 mL	428840	03/10/23 14:54	LWM	EET PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			431333	03/06/23 09:12	FDS	EET PIT

Client Sample ID: SW-3-1'
Date Collected: 03/06/23 09:25
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-10
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		2.5	1 mL	1 mL	429105	03/14/23 21:28	SNL	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			430351	03/24/23 14:35	RSK	EET PIT

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-3-1'
Date Collected: 03/06/23 09:25
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			431774	04/07/23 10:38	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	429853	03/21/23 09:01	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			429969	03/21/23 17:21	RJR	EET PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	50 mL	100 mL	428840	03/10/23 14:54	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-3-4'
Date Collected: 03/06/23 09:39
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-11
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		2.5	1 mL	1 mL	429105	03/14/23 21:42	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430351	03/24/23 14:39	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431774	04/07/23 10:42	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	429853	03/21/23 09:01	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 17:22	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	428840	03/10/23 14:54	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			431333	03/06/23 09:39	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-3-4'
Date Collected: 03/06/23 09:50
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-12
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		2.5	1 mL	1 mL	429105	03/14/23 21:57	SNL	EET PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			430351	03/24/23 14:42	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			431647	04/06/23 17:28	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	429853	03/21/23 09:01	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			429969	03/21/23 17:23	RJR	EET PIT
Instrument ID: HGZ										

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Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-3-4'
Date Collected: 03/06/23 09:50
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 2540C		1	50 mL	100 mL	428840	03/10/23 14:54	LWM	EET PIT

Client Sample ID: SW-4-1.5
Date Collected: 03/06/23 11:37
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0 Instrument ID: CHIC2100A		2.5	1 mL	1 mL	431690	04/07/23 18:57	LWM	EET PIT
Total/NA	Analysis	300.0 Instrument ID: CHICS2100B		2.5	1 mL	1 mL	431544	04/06/23 19:49	SNL	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			430351	03/24/23 14:46	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			431647	04/06/23 17:32	RSK	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429853	03/21/23 09:01	RJR	EET PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			429969	03/21/23 17:24	RJR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	50 mL	100 mL	428840	03/10/23 14:54	LWM	EET PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			431333	03/06/23 11:37	FDS	EET PIT

Client Sample ID: SW-4-1.5
Date Collected: 03/06/23 11:45
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-14
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		2.5	1 mL	1 mL	431690	04/07/23 19:11	LWM	EET PIT
Dissolved	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		2.5	1 mL	1 mL	431544	04/06/23 20:33	SNL	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			430351	03/24/23 14:50	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			431647	04/06/23 17:36	RSK	EET PIT
Dissolved	Prep	7470A			25 mL	25 mL	429853	03/21/23 09:01	RJR	EET PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGZ		1			429969	03/21/23 17:25	RJR	EET PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	50 mL	100 mL	428840	03/10/23 14:54	LWM	EET PIT

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-5-1'
Date Collected: 03/06/23 08:03
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	1 mL	1 mL	429105	03/14/23 17:16	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430351	03/24/23 14:53	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431647	04/06/23 17:40	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	429853	03/21/23 09:01	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 17:26	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	428840	03/10/23 14:54	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			431333	03/06/23 08:03	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-5-1'
Date Collected: 03/06/23 08:19
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-16
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		1	1 mL	1 mL	429105	03/14/23 20:43	SNL	EET PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			430351	03/24/23 14:57	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			431647	04/06/23 17:43	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	429853	03/21/23 09:01	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			429969	03/21/23 17:27	RJR	EET PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	428840	03/10/23 14:54	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-5-13'
Date Collected: 03/06/23 08:35
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-17
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		2.5	1 mL	1 mL	431690	04/07/23 19:55	LWM	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		2.5	1 mL	1 mL	431544	04/06/23 21:47	SNL	EET PIT
Instrument ID: CHICS2100B										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-5-13'

Lab Sample ID: 180-153194-17

Date Collected: 03/06/23 08:35

Matrix: Water

Date Received: 03/08/23 09:28

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	429423	03/16/23 13:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430351	03/24/23 15:01	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431647	04/06/23 17:47	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	429853	03/21/23 09:01	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 17:32	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	428840	03/10/23 14:54	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			431333	03/06/23 08:35	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-5-13'

Lab Sample ID: 180-153194-18

Date Collected: 03/06/23 08:53

Matrix: Water

Date Received: 03/08/23 09:28

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		2.5	1 mL	1 mL	431690	04/07/23 20:10	LWM	EET PIT
Instrument ID: CHIC2100A										
Dissolved	Analysis	EPA 300.0 R2.1		2.5	1 mL	1 mL	431544	04/06/23 22:02	SNL	EET PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			430351	03/24/23 15:22	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			431647	04/06/23 17:51	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	429853	03/21/23 09:01	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			429969	03/21/23 17:33	RJR	EET PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	50 mL	100 mL	428853	03/10/23 16:34	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-6-1'

Lab Sample ID: 180-153194-19

Date Collected: 03/06/23 09:21

Matrix: Water

Date Received: 03/08/23 09:28

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	1 mL	1 mL	431690	04/07/23 20:25	LWM	EET PIT
Instrument ID: CHIC2100A										
Total/NA	Analysis	300.0		1	1 mL	1 mL	431544	04/06/23 22:16	SNL	EET PIT
Instrument ID: CHICS2100B										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-6-1'
Date Collected: 03/06/23 09:21
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-19
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			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			430351	03/24/23 15:26	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			431647	04/06/23 17:54	RSK	EET PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	429853	03/21/23 09:01	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 17:34	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	428853	03/10/23 16:34	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			431333	03/06/23 09:21	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-6-1'
Date Collected: 03/06/23 09:38
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-20
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	1 mL	1 mL	431690	04/07/23 20:39	LWM	EET PIT
Instrument ID: CHIC2100A										
Dissolved	Analysis	EPA 300.0 R2.1		1	1 mL	1 mL	431544	04/06/23 22:31	SNL	EET PIT
Instrument ID: CHICS2100B										
Dissolved	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			430351	03/24/23 15:29	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	429423	03/16/23 13:40	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			431647	04/06/23 17:58	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	7470A			25 mL	25 mL	429853	03/21/23 09:01	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			429969	03/21/23 17:35	RJR	EET PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	428853	03/10/23 16:34	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-6-9.5
Date Collected: 03/06/23 09:53
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-21
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		2.5	1 mL	1 mL	429259	03/15/23 17:03	M1D	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432968	04/20/23 17:17	RSK	EET PIT
Instrument ID: A										

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Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-6-9.5

Lab Sample ID: 180-153194-21

Date Collected: 03/06/23 09:53

Matrix: Water

Date Received: 03/08/23 09:28

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	429463	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 03:38	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	429855	03/21/23 09:03	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 17:38	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	428853	03/10/23 16:34	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			431333	03/06/23 09:53	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-6-9.5

Lab Sample ID: 180-153194-22

Date Collected: 03/06/23 10:10

Matrix: Water

Date Received: 03/08/23 09:28

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		2.5	1 mL	1 mL	429259	03/15/23 17:22	M1D	EET PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432968	04/20/23 17:20	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432609	04/18/23 03:42	RSK	EET PIT
Instrument ID: DORY										
Dissolved	Prep	7470A			25 mL	25 mL	429855	03/21/23 09:03	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			429969	03/21/23 17:41	RJR	EET PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	50 mL	100 mL	428853	03/10/23 16:34	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-9-1'

Lab Sample ID: 180-153194-23

Date Collected: 03/06/23 13:06

Matrix: Water

Date Received: 03/08/23 09:28

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	1 mL	1 mL	429259	03/15/23 14:47	M1D	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432968	04/20/23 17:34	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 03:45	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	429855	03/21/23 09:03	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 17:46	RJR	EET PIT
Instrument ID: HGZ										

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Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-9-1'
Date Collected: 03/06/23 13:06
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	428853	03/10/23 16:34	LWM	EET PIT
Total/NA	Analysis	Field Sampling		1			431333	03/06/23 13:06	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-9-1'
Date Collected: 03/06/23 13:22
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-24
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	1 mL	1 mL	429259	03/15/23 17:40	M1D	EET PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432968	04/20/23 17:51	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432609	04/18/23 04:11	RSK	EET PIT
Instrument ID: DORY										
Dissolved	Prep	7470A			25 mL	25 mL	429855	03/21/23 09:03	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			429969	03/21/23 17:47	RJR	EET PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	428853	03/10/23 16:34	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-9-4'
Date Collected: 03/06/23 13:31
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-25
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	1 mL	1 mL	429426	03/16/23 16:46	M1D	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432968	04/20/23 17:55	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 04:15	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	429855	03/21/23 09:03	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 17:48	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	428853	03/10/23 16:34	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			431333	03/06/23 13:31	FDS	EET PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-9-4'
Date Collected: 03/06/23 13:45
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-26
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 Instrument ID: INTEGRION		1	1 mL	1 mL	429426	03/16/23 17:04	M1D	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			432968	04/20/23 17:58	RSK	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: DORY		1			432609	04/18/23 04:18	RSK	EET PIT
Dissolved	Prep	7470A			25 mL	25 mL	429855	03/21/23 09:03	RJR	EET PIT
Dissolved	Analysis	EPA 7470A Instrument ID: HGZ		1			429969	03/21/23 17:49	RJR	EET PIT
Dissolved	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	428853	03/10/23 16:34	LWM	EET PIT

Client Sample ID: SW-10-2'
Date Collected: 03/06/23 12:31
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-27
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 Instrument ID: INTEGRION		1	1 mL	1 mL	430456	03/27/23 14:32	SNL	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			432968	04/20/23 18:02	RSK	EET PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: DORY		1			432609	04/18/23 04:22	RSK	EET PIT
Total/NA	Prep	7470A			25 mL	25 mL	429855	03/21/23 09:03	RJR	EET PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			429969	03/21/23 17:50	RJR	EET PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	428853	03/10/23 16:34	LWM	EET PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			431333	03/06/23 12:31	FDS	EET PIT

Client Sample ID: SW-10-2'
Date Collected: 03/06/23 12:48
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-28
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: INTEGRION		1	1 mL	1 mL	430456	03/27/23 12:23	SNL	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B Instrument ID: A		1			432968	04/20/23 18:12	RSK	EET PIT

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Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-10-2'

Lab Sample ID: 180-153194-28

Date Collected: 03/06/23 12:48

Matrix: Water

Date Received: 03/08/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432609	04/18/23 04:26	RSK	EET PIT
Instrument ID: DORY										
Dissolved	Prep	7470A			25 mL	25 mL	429855	03/21/23 09:03	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			429969	03/21/23 17:51	RJR	EET PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	428853	03/10/23 16:34	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-11-1'

Lab Sample ID: 180-153194-29

Date Collected: 03/06/23 12:08

Matrix: Water

Date Received: 03/08/23 09:28

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	1 mL	1 mL	430456	03/27/23 15:28	SNL	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432968	04/20/23 18:15	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 04:37	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	429855	03/21/23 09:03	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 17:52	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	428840	03/10/23 14:54	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			431333	03/06/23 12:08	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-11-1'

Lab Sample ID: 180-153194-30

Date Collected: 03/06/23 11:51

Matrix: Water

Date Received: 03/08/23 09:28

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	1 mL	1 mL	430456	03/27/23 15:46	SNL	EET PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432968	04/20/23 18:19	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432609	04/18/23 04:40	RSK	EET PIT
Instrument ID: DORY										
Dissolved	Prep	7470A			25 mL	25 mL	429855	03/21/23 09:03	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			429969	03/21/23 17:53	RJR	EET PIT
Instrument ID: HGZ										

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Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-11-1'

Lab Sample ID: 180-153194-30

Date Collected: 03/06/23 11:51

Matrix: Water

Date Received: 03/08/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	428840	03/10/23 14:54	LWM	EET PIT

Client Sample ID: SW-12-1'

Lab Sample ID: 180-153194-31

Date Collected: 03/06/23 10:42

Matrix: Water

Date Received: 03/08/23 09:28

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	1 mL	1 mL	430387	03/26/23 16:38	SNL	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432968	04/20/23 18:22	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 04:44	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	429855	03/21/23 09:03	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 17:54	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	428853	03/10/23 16:34	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			431333	03/06/23 10:42	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-12-1'

Lab Sample ID: 180-153194-32

Date Collected: 03/06/23 11:12

Matrix: Water

Date Received: 03/08/23 09:28

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	1 mL	1 mL	430456	03/27/23 16:05	SNL	EET PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432968	04/20/23 18:26	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432609	04/18/23 04:48	RSK	EET PIT
Instrument ID: DORY										
Dissolved	Prep	7470A			25 mL	25 mL	429855	03/21/23 09:03	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			429969	03/21/23 17:55	RJR	EET PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	428853	03/10/23 16:34	LWM	EET PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-13-1'

Lab Sample ID: 180-153194-33

Date Collected: 03/06/23 12:21

Matrix: Water

Date Received: 03/08/23 09:28

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	1 mL	1 mL	429641	03/18/23 18:55	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432968	04/20/23 18:29	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 04:51	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	429855	03/21/23 09:03	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 18:00	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	428853	03/10/23 16:34	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			431333	03/06/23 12:21	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-13-1'

Lab Sample ID: 180-153194-34

Date Collected: 03/06/23 12:39

Matrix: Water

Date Received: 03/08/23 09:28

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		2.5	1 mL	1 mL	429641	03/18/23 19:10	SNL	EET PIT
Instrument ID: CHIC2100A										
Dissolved	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432968	04/20/23 18:33	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432609	04/18/23 04:55	RSK	EET PIT
Instrument ID: DORY										
Dissolved	Prep	7470A			25 mL	25 mL	429855	03/21/23 09:03	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			429969	03/21/23 18:01	RJR	EET PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	50 mL	100 mL	429044	03/13/23 15:55	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-14-1.5

Lab Sample ID: 180-153194-35

Date Collected: 03/06/23 13:14

Matrix: Water

Date Received: 03/08/23 09:28

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	1 mL	1 mL	429641	03/18/23 19:24	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432968	04/20/23 18:36	RSK	EET PIT
Instrument ID: A										

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Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-14-1.5
Date Collected: 03/06/23 13:14
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-35
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			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 04:58	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	429855	03/21/23 09:03	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 18:02	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	429044	03/13/23 15:55	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			431333	03/06/23 13:14	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-14-1.5
Date Collected: 03/06/23 13:29
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-36
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		2.5	1 mL	1 mL	429641	03/18/23 19:39	SNL	EET PIT
Instrument ID: CHIC2100A										
Dissolved	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			433148	04/21/23 13:11	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432609	04/18/23 05:02	RSK	EET PIT
Instrument ID: DORY										
Dissolved	Prep	7470A			25 mL	25 mL	429855	03/21/23 09:03	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			429969	03/21/23 18:03	RJR	EET PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	50 mL	100 mL	429044	03/13/23 15:55	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-15-1.5
Date Collected: 03/06/23 13:50
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-37
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		2.5	1 mL	1 mL	430456	03/27/23 13:18	SNL	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433148	04/21/23 13:24	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 05:06	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	429855	03/21/23 09:03	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 18:04	RJR	EET PIT
Instrument ID: HGZ										

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Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-15-1.5

Lab Sample ID: 180-153194-37

Date Collected: 03/06/23 13:50

Matrix: Water

Date Received: 03/08/23 09:28

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	429044	03/13/23 15:55	LWM	EET PIT
Total/NA	Analysis	Field Sampling		1			431333	03/06/23 13:50	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-15-1.5

Lab Sample ID: 180-153194-38

Date Collected: 03/06/23 14:10

Matrix: Water

Date Received: 03/08/23 09:28

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		2.5	1 mL	1 mL	430456	03/27/23 13:37	SNL	EET PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			433148	04/21/23 13:28	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432609	04/18/23 05:17	RSK	EET PIT
Instrument ID: DORY										
Dissolved	Prep	7470A			25 mL	25 mL	429855	03/21/23 09:03	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			429969	03/21/23 18:05	RJR	EET PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	50 mL	100 mL	429044	03/13/23 15:55	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-16-1.5

Lab Sample ID: 180-153194-39

Date Collected: 03/06/23 14:48

Matrix: Water

Date Received: 03/08/23 09:28

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	1 mL	1 mL	430456	03/27/23 13:55	SNL	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			433148	04/21/23 13:31	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 05:20	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	429855	03/21/23 09:03	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 18:06	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	429044	03/13/23 15:55	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			431333	03/06/23 14:48	FDS	EET PIT
Instrument ID: NOEQUIP										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-16-1.5

Lab Sample ID: 180-153194-40

Date Collected: 03/06/23 15:08

Matrix: Water

Date Received: 03/08/23 09:28

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		2.5	1 mL	1 mL	430456	03/27/23 14:14	SNL	EET PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			433148	04/21/23 13:35	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	429463	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432609	04/18/23 05:24	RSK	EET PIT
Instrument ID: DORY										
Dissolved	Prep	7470A			25 mL	25 mL	429852	03/21/23 08:59	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			429969	03/21/23 16:44	RJR	EET PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	50 mL	100 mL	429044	03/13/23 15:55	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-01

Lab Sample ID: 180-153194-41

Date Collected: 03/06/23 08:16

Matrix: Water

Date Received: 03/08/23 09:28

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			429847	03/21/23 20:29	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432968	04/20/23 14:30	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 00:36	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	429852	03/21/23 08:59	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 16:45	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	429044	03/13/23 15:55	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-17-1'

Lab Sample ID: 180-153194-42

Date Collected: 03/06/23 10:38

Matrix: Water

Date Received: 03/08/23 09:28

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			429847	03/21/23 20:44	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432968	04/20/23 14:48	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 01:01	RSK	EET PIT
Instrument ID: DORY										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-17-1'

Lab Sample ID: 180-153194-42

Date Collected: 03/06/23 10:38

Matrix: Water

Date Received: 03/08/23 09:28

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	429852	03/21/23 08:59	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 16:46	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	429044	03/13/23 15:55	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			431333	03/06/23 10:38	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: SW-17-1'

Lab Sample ID: 180-153194-43

Date Collected: 03/06/23 10:57

Matrix: Water

Date Received: 03/08/23 09:28

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		2.5			429847	03/21/23 20:59	SNL	EET PIT
Instrument ID: CHIC2100A										
Dissolved	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432968	04/20/23 14:51	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432609	04/18/23 01:05	RSK	EET PIT
Instrument ID: DORY										
Dissolved	Prep	7470A			25 mL	25 mL	429852	03/21/23 08:59	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			429969	03/21/23 16:51	RJR	EET PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	50 mL	100 mL	429030	03/13/23 14:21	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-01

Lab Sample ID: 180-153194-44

Date Collected: 03/06/23 08:13

Matrix: Water

Date Received: 03/08/23 09:28

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			429847	03/21/23 21:43	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432968	04/20/23 15:01	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 01:08	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	429852	03/21/23 08:59	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 16:52	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	429044	03/13/23 15:55	LWM	EET PIT
Instrument ID: NOEQUIP										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: DUP-01
Date Collected: 03/06/23 11:21
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-45
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		2.5			429847	03/21/23 21:58	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432968	04/20/23 15:05	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 01:12	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	429852	03/21/23 08:59	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 16:53	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	429044	03/13/23 15:55	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			431333	03/06/23 11:21	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01
Date Collected: 03/06/23 11:39
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-46
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		2.5			429847	03/21/23 22:13	SNL	EET PIT
Instrument ID: CHIC2100A										
Dissolved	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432968	04/20/23 15:08	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432609	04/18/23 01:16	RSK	EET PIT
Instrument ID: DORY										
Dissolved	Prep	7470A			25 mL	25 mL	429852	03/21/23 08:59	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			429969	03/21/23 16:54	RJR	EET PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	50 mL	100 mL	429044	03/13/23 15:55	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-02
Date Collected: 03/06/23 16:39
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-47
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		2.5			429847	03/21/23 22:27	SNL	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432968	04/20/23 15:12	RSK	EET PIT
Instrument ID: A										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: DUP-02
Date Collected: 03/06/23 16:39
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-47
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			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 01:19	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	429852	03/21/23 08:59	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 16:55	RJR	EET PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	429044	03/13/23 15:55	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			431333	03/06/23 16:39	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-02
Date Collected: 03/06/23 16:56
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-48
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		2.5	1 mL	1 mL	430456	03/27/23 21:19	SNL	EET PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432968	04/20/23 15:15	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432609	04/18/23 01:30	RSK	EET PIT
Instrument ID: DORY										
Dissolved	Prep	7470A			25 mL	25 mL	429852	03/21/23 08:59	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			429969	03/21/23 16:57	RJR	EET PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	50 mL	100 mL	429044	03/13/23 15:55	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-03
Date Collected: 03/06/23 09:42
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-49
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	1 mL	1 mL	430456	03/27/23 21:37	SNL	EET PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432968	04/20/23 15:19	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			432609	04/18/23 01:34	RSK	EET PIT
Instrument ID: DORY										
Total/NA	Prep	7470A			25 mL	25 mL	429852	03/21/23 08:59	RJR	EET PIT
Total/NA	Analysis	EPA 7470A		1			429969	03/21/23 16:58	RJR	EET PIT
Instrument ID: HGZ										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: DUP-03
Date Collected: 03/06/23 09:42
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-49
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	SM 2540C		1	100 mL	100 mL	429044	03/13/23 15:55	LWM	EET PIT
Total/NA	Analysis	Field Sampling		1			431333	03/06/23 09:42	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-03
Date Collected: 03/06/23 10:12
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-50
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	1 mL	1 mL	430456	03/27/23 21:56	SNL	EET PIT
Instrument ID: INTEGRION										
Dissolved	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432968	04/20/23 15:22	RSK	EET PIT
Instrument ID: A										
Dissolved	Prep	3005A			25 mL	25 mL	429462	03/16/23 16:30	HCY	EET PIT
Dissolved	Analysis	EPA 6020B		1			432609	04/18/23 01:38	RSK	EET PIT
Instrument ID: DORY										
Dissolved	Prep	7470A			25 mL	25 mL	429852	03/21/23 08:59	RJR	EET PIT
Dissolved	Analysis	EPA 7470A		1			429969	03/21/23 16:59	RJR	EET PIT
Instrument ID: HGZ										
Dissolved	Analysis	SM 2540C		1	100 mL	100 mL	429044	03/13/23 15:55	LWM	EET PIT
Instrument ID: NOEQUIP										

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: EET PIT

Batch Type: Prep

HCY = Harrison Yaeger

RJR = Ron Rosenbaum

Batch Type: Analysis

FDS = Sampler Field

LWM = Leslie McIntire

M1D = Maureen Donlin

RJR = Ron Rosenbaum

RSK = Robert Kurtz

SNL = Sean Lordo

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-1-1'

Lab Sample ID: 180-153194-1

Date Collected: 03/06/23 17:39

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	610		2.5	1.8	mg/L			03/14/23 18:00	2.5
Fluoride	0.080	J	0.50	0.065	mg/L			03/14/23 18:00	2.5
Sulfate	89		2.5	1.9	mg/L			03/14/23 18:00	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 13:32	1
Arsenic	0.00092	J	0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 13:32	1
Barium	0.036		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 13:32	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 13:32	1
Boron	0.24		0.080	0.060	mg/L		04/12/23 14:30	04/14/23 13:04	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 13:32	1
Calcium	17		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 13:32	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 13:32	1
Cobalt	0.00029	J	0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 13:32	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 13:32	1
Lithium	0.0077		0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 13:32	1
Molybdenum	0.0010	J	0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 13:32	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 13:32	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 13:32	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:01	03/21/23 17:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1200		20	20	mg/L			03/10/23 15:42	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.63				SU			03/06/23 17:39	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-1-1'

Lab Sample ID: 180-153194-2

Date Collected: 03/06/23 17:56

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	630		2.5	1.8	mg/L			03/14/23 18:15	2.5
Fluoride, Dissolved	<0.065		0.25	0.065	mg/L			03/14/23 18:15	2.5
Sulfate, Dissolved	91		2.5	1.9	mg/L			03/14/23 18:15	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 13:58	1
Arsenic, Dissolved	0.00088	J	0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 13:58	1
Barium, Dissolved	0.033		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 13:58	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 13:58	1
Boron, Dissolved	0.42		0.080	0.060	mg/L		03/16/23 13:40	04/07/23 09:58	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 13:58	1
Calcium, Dissolved	16		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 13:58	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 13:58	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 13:58	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 13:58	1
Lithium, Dissolved	0.0079		0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 13:58	1
Molybdenum, Dissolved	0.0011	J	0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 13:58	1
Selenium, Dissolved	0.00087	J	0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 13:58	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 13:58	1

Method: SW846 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		03/21/23 09:01	03/21/23 17:09	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	1200		20	20	mg/L			03/10/23 15:42	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-1-7'

Lab Sample ID: 180-153194-3

Date Collected: 03/06/23 18:13

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	630		2.5	1.8	mg/L			03/14/23 18:30	2.5
Fluoride	<0.065		0.50	0.065	mg/L			03/14/23 18:30	2.5
Sulfate	91		2.5	1.9	mg/L			03/14/23 18:30	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 14:01	1
Arsenic	0.00076	J	0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 14:01	1
Barium	0.034		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 14:01	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 14:01	1
Boron	0.33		0.080	0.060	mg/L		03/16/23 13:40	04/07/23 10:01	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 14:01	1
Calcium	17		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 14:01	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 14:01	1
Cobalt	0.00032	J	0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 14:01	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 14:01	1
Lithium	0.0083		0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 14:01	1
Molybdenum	0.00076	J	0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 14:01	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 14:01	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 14:01	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:01	03/21/23 17:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1200		20	20	mg/L			03/10/23 15:42	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.68				SU			03/06/23 18:13	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-1-7'

Lab Sample ID: 180-153194-4

Date Collected: 03/06/23 18:25

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	600		2.5	1.8	mg/L			03/14/23 18:45	2.5
Fluoride, Dissolved	<0.065		0.25	0.065	mg/L			03/14/23 18:45	2.5
Sulfate, Dissolved	86		2.5	1.9	mg/L			03/14/23 18:45	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 14:05	1
Arsenic, Dissolved	0.00076	J	0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 14:05	1
Barium, Dissolved	0.033		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 14:05	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 14:05	1
Boron, Dissolved	0.29		0.080	0.060	mg/L		03/16/23 13:40	04/07/23 10:05	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 14:05	1
Calcium, Dissolved	16		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 14:05	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 14:05	1
Cobalt, Dissolved	0.00028	J	0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 14:05	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 14:05	1
Lithium, Dissolved	0.0078		0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 14:05	1
Molybdenum, Dissolved	0.00065	J	0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 14:05	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 14:05	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 14:05	1

Method: SW846 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		03/21/23 09:01	03/21/23 17:11	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	1100		20	20	mg/L			03/10/23 15:42	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-2-1'

Lab Sample ID: 180-153194-5

Date Collected: 03/06/23 16:50

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	520		2.5	1.8	mg/L			03/14/23 18:59	2.5
Fluoride	<0.065		0.50	0.065	mg/L			03/14/23 18:59	2.5
Sulfate	75		2.5	1.9	mg/L			03/14/23 18:59	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 14:09	1
Arsenic	0.00070	J	0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 14:09	1
Barium	0.038		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 14:09	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 14:09	1
Boron	0.26		0.080	0.060	mg/L		03/16/23 13:40	04/07/23 10:09	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 14:09	1
Calcium	15		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 14:09	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 14:09	1
Cobalt	0.00032	J	0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 14:09	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 14:09	1
Lithium	0.0071		0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 14:09	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 14:09	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 14:09	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 14:09	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:01	03/21/23 17:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	950		10	10	mg/L			03/10/23 14:54	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.73				SU			03/06/23 16:50	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-2-1'

Lab Sample ID: 180-153194-6

Date Collected: 03/06/23 17:03

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	490		2.5	1.8	mg/L			03/14/23 19:44	2.5
Fluoride, Dissolved	<0.065		0.25	0.065	mg/L			03/14/23 19:44	2.5
Sulfate, Dissolved	72		2.5	1.9	mg/L			03/14/23 19:44	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 14:13	1
Arsenic, Dissolved	0.00067	J	0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 14:13	1
Barium, Dissolved	0.036		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 14:13	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 14:13	1
Boron, Dissolved	0.21		0.080	0.060	mg/L		03/16/23 13:40	04/07/23 10:24	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 14:13	1
Calcium, Dissolved	15		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 14:13	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 14:13	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 14:13	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 14:13	1
Lithium, Dissolved	0.0071		0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 14:13	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 14:13	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 14:13	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 14:13	1

Method: SW846 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		03/21/23 09:01	03/21/23 17:13	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	950		10	10	mg/L			03/10/23 14:54	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-2-7'

Lab Sample ID: 180-153194-7

Date Collected: 03/06/23 17:14

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	500		2.5	1.8	mg/L			03/14/23 19:59	2.5
Fluoride	<0.065		0.50	0.065	mg/L			03/14/23 19:59	2.5
Sulfate	72		2.5	1.9	mg/L			03/14/23 19:59	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 14:16	1
Arsenic	0.00074	J	0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 14:16	1
Barium	0.035		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 14:16	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 14:16	1
Boron	0.20		0.080	0.060	mg/L		03/16/23 13:40	04/07/23 10:27	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 14:16	1
Calcium	14		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 14:16	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 14:16	1
Cobalt	0.00029	J	0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 14:16	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 14:16	1
Lithium	0.0069		0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 14:16	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 14:16	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 14:16	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 14:16	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:01	03/21/23 17:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	980		10	10	mg/L			03/10/23 14:54	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.83				SU			03/06/23 17:14	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-2-7'

Lab Sample ID: 180-153194-8

Date Collected: 03/06/23 17:23

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	500		2.5	1.8	mg/L			03/14/23 20:14	2.5
Fluoride, Dissolved	<0.065		0.25	0.065	mg/L			03/14/23 20:14	2.5
Sulfate, Dissolved	74		2.5	1.9	mg/L			03/14/23 20:14	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 14:20	1
Arsenic, Dissolved	0.00070	J	0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 14:20	1
Barium, Dissolved	0.036		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 14:20	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 14:20	1
Boron, Dissolved	0.22		0.080	0.060	mg/L		03/16/23 13:40	04/07/23 10:31	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 14:20	1
Calcium, Dissolved	14		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 14:20	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 14:20	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 14:20	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 14:20	1
Lithium, Dissolved	0.0069		0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 14:20	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 14:20	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 14:20	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 14:20	1

Method: SW846 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		03/21/23 09:01	03/21/23 17:19	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	950		10	10	mg/L			03/10/23 14:54	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-3-1'

Lab Sample ID: 180-153194-9

Date Collected: 03/06/23 09:12

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	810		2.5	1.8	mg/L			03/14/23 20:29	2.5
Fluoride	<0.065		0.50	0.065	mg/L			03/14/23 20:29	2.5
Sulfate	120		2.5	1.9	mg/L			03/14/23 20:29	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 14:31	1
Arsenic	0.00081	J	0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 14:31	1
Barium	0.035		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 14:31	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 14:31	1
Boron	0.31		0.080	0.060	mg/L		03/16/23 13:40	04/07/23 10:35	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 14:31	1
Calcium	23		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 14:31	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 14:31	1
Cobalt	0.00033	J	0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 14:31	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 14:31	1
Lithium	0.010		0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 14:31	1
Molybdenum	0.00090	J	0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 14:31	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 14:31	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 14:31	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:01	03/21/23 17:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1500		20	20	mg/L			03/10/23 14:54	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.52				SU			03/06/23 09:12	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-3-1'

Lab Sample ID: 180-153194-10

Date Collected: 03/06/23 09:25

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	790		2.5	1.8	mg/L			03/14/23 21:28	2.5
Fluoride, Dissolved	0.087	J	0.25	0.065	mg/L			03/14/23 21:28	2.5
Sulfate, Dissolved	110		2.5	1.9	mg/L			03/14/23 21:28	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 14:35	1
Arsenic, Dissolved	0.00063	J	0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 14:35	1
Barium, Dissolved	0.031		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 14:35	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 14:35	1
Boron, Dissolved	0.29		0.080	0.060	mg/L		03/16/23 13:40	04/07/23 10:38	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 14:35	1
Calcium, Dissolved	22		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 14:35	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 14:35	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 14:35	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 14:35	1
Lithium, Dissolved	0.0093		0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 14:35	1
Molybdenum, Dissolved	0.00070	J	0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 14:35	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 14:35	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 14:35	1

Method: SW846 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		03/21/23 09:01	03/21/23 17:21	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	1500		20	20	mg/L			03/10/23 14:54	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-3-4'
Date Collected: 03/06/23 09:39
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-11
Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	760		2.5	1.8	mg/L			03/14/23 21:42	2.5
Fluoride	0.071	J	0.50	0.065	mg/L			03/14/23 21:42	2.5
Sulfate	110		2.5	1.9	mg/L			03/14/23 21:42	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 14:39	1
Arsenic	0.00086	J	0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 14:39	1
Barium	0.032		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 14:39	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 14:39	1
Boron	0.31		0.080	0.060	mg/L		03/16/23 13:40	04/07/23 10:42	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 14:39	1
Calcium	21		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 14:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 14:39	1
Cobalt	0.00032	J	0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 14:39	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 14:39	1
Lithium	0.0094		0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 14:39	1
Molybdenum	0.00065	J	0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 14:39	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 14:39	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 14:39	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:01	03/21/23 17:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1500		20	20	mg/L			03/10/23 14:54	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.62				SU			03/06/23 09:39	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-3-4'

Lab Sample ID: 180-153194-12

Date Collected: 03/06/23 09:50

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	740		2.5	1.8	mg/L			03/14/23 21:57	2.5
Fluoride, Dissolved	<0.065		0.25	0.065	mg/L			03/14/23 21:57	2.5
Sulfate, Dissolved	110		2.5	1.9	mg/L			03/14/23 21:57	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 14:42	1
Arsenic, Dissolved	0.00059	J	0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 14:42	1
Barium, Dissolved	0.033		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 14:42	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 14:42	1
Boron, Dissolved	0.27		0.080	0.060	mg/L		03/16/23 13:40	04/06/23 17:28	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 14:42	1
Calcium, Dissolved	21		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 14:42	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 14:42	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 14:42	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 14:42	1
Lithium, Dissolved	0.0095		0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 14:42	1
Molybdenum, Dissolved	0.00075	J	0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 14:42	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 14:42	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 14:42	1

Method: SW846 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		03/21/23 09:01	03/21/23 17:23	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	1400		20	20	mg/L			03/10/23 14:54	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-4-1.5

Lab Sample ID: 180-153194-13

Date Collected: 03/06/23 11:37

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	690		2.5	1.8	mg/L			04/07/23 18:57	2.5
Fluoride	0.073	J H	0.50	0.065	mg/L			04/06/23 19:49	2.5
Sulfate	100	H	2.5	1.9	mg/L			04/06/23 19:49	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 14:46	1
Arsenic	0.00068	J	0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 14:46	1
Barium	0.031		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 14:46	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 14:46	1
Boron	0.25		0.080	0.060	mg/L		03/16/23 13:40	04/06/23 17:32	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 14:46	1
Calcium	19		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 14:46	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 14:46	1
Cobalt	0.00029	J	0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 14:46	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 14:46	1
Lithium	0.0086		0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 14:46	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 14:46	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 14:46	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 14:46	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:01	03/21/23 17:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1300		20	20	mg/L			03/10/23 14:54	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.28				SU			03/06/23 11:37	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-4-1.5

Lab Sample ID: 180-153194-14

Date Collected: 03/06/23 11:45

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	720		2.5	1.8	mg/L			04/07/23 19:11	2.5
Fluoride, Dissolved	0.20	J H	0.25	0.065	mg/L			04/06/23 20:33	2.5
Sulfate, Dissolved	120	H	2.5	1.9	mg/L			04/06/23 20:33	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 14:50	1
Arsenic, Dissolved	0.00058	J	0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 14:50	1
Barium, Dissolved	0.031		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 14:50	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 14:50	1
Boron, Dissolved	0.26		0.080	0.060	mg/L		03/16/23 13:40	04/06/23 17:36	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 14:50	1
Calcium, Dissolved	19		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 14:50	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 14:50	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 14:50	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 14:50	1
Lithium, Dissolved	0.0088		0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 14:50	1
Molybdenum, Dissolved	0.00063	J	0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 14:50	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 14:50	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 14:50	1

Method: SW846 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		03/21/23 09:01	03/21/23 17:25	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	1400		20	20	mg/L			03/10/23 14:54	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-5-1'

Lab Sample ID: 180-153194-15

Date Collected: 03/06/23 08:03

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	220		1.0	0.71	mg/L			03/14/23 17:16	1
Fluoride	0.032	J	0.20	0.026	mg/L			03/14/23 17:16	1
Sulfate	33		1.0	0.76	mg/L			03/14/23 17:16	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 14:53	1
Arsenic	0.00067	J	0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 14:53	1
Barium	0.033		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 14:53	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 14:53	1
Boron	0.12		0.080	0.060	mg/L		03/16/23 13:40	04/06/23 17:40	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 14:53	1
Calcium	6.6		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 14:53	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 14:53	1
Cobalt	0.00032	J	0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 14:53	1
Lead	0.00038	J	0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 14:53	1
Lithium	0.0037	J	0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 14:53	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 14:53	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 14:53	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 14:53	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:01	03/21/23 17:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	410		10	10	mg/L			03/10/23 14:54	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.28				SU			03/06/23 08:03	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-5-1'

Lab Sample ID: 180-153194-16

Date Collected: 03/06/23 08:19

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	200	F1	1.0	0.71	mg/L			03/14/23 20:43	1
Fluoride, Dissolved	0.032	J	0.10	0.026	mg/L			03/14/23 20:43	1
Sulfate, Dissolved	30	F1	1.0	0.76	mg/L			03/14/23 20:43	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 14:57	1
Arsenic, Dissolved	0.00060	J	0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 14:57	1
Barium, Dissolved	0.034		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 14:57	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 14:57	1
Boron, Dissolved	0.11		0.080	0.060	mg/L		03/16/23 13:40	04/06/23 17:43	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 14:57	1
Calcium, Dissolved	6.9		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 14:57	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 14:57	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 14:57	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 14:57	1
Lithium, Dissolved	0.0035	J	0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 14:57	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 14:57	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 14:57	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 14:57	1

Method: SW846 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		03/21/23 09:01	03/21/23 17:27	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	390		10	10	mg/L			03/10/23 14:54	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-5-13'

Lab Sample ID: 180-153194-17

Date Collected: 03/06/23 08:35

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	570		2.5	1.8	mg/L			04/07/23 19:55	2.5
Fluoride	0.072	J H	0.50	0.065	mg/L			04/06/23 21:47	2.5
Sulfate	110	H	2.5	1.9	mg/L			04/06/23 21:47	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 15:01	1
Arsenic	0.00081	J	0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 15:01	1
Barium	0.034		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 15:01	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 15:01	1
Boron	0.22		0.080	0.060	mg/L		03/16/23 13:40	04/06/23 17:47	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 15:01	1
Calcium	17		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 15:01	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 15:01	1
Cobalt	0.00031	J	0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 15:01	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 15:01	1
Lithium	0.0074		0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 15:01	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 15:01	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 15:01	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 15:01	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:01	03/21/23 17:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10	10	mg/L			03/10/23 14:54	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.42				SU			03/06/23 08:35	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-5-13'

Lab Sample ID: 180-153194-18

Date Collected: 03/06/23 08:53

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	600		2.5	1.8	mg/L			04/07/23 20:10	2.5
Fluoride, Dissolved	0.071	J H	0.25	0.065	mg/L			04/06/23 22:02	2.5
Sulfate, Dissolved	92	H	2.5	1.9	mg/L			04/06/23 22:02	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 15:22	1
Arsenic, Dissolved	0.00065	J	0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 15:22	1
Barium, Dissolved	0.029		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 15:22	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 15:22	1
Boron, Dissolved	0.20		0.080	0.060	mg/L		03/16/23 13:40	04/06/23 17:51	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 15:22	1
Calcium, Dissolved	15		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 15:22	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 15:22	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 15:22	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 15:22	1
Lithium, Dissolved	0.0068		0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 15:22	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 15:22	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 15:22	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 15:22	1

Method: SW846 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		03/21/23 09:01	03/21/23 17:33	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	1100		20	20	mg/L			03/10/23 16:34	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-6-1'

Lab Sample ID: 180-153194-19

Date Collected: 03/06/23 09:21

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	420		1.0	0.71	mg/L			04/07/23 20:25	1
Fluoride	0.066	J H	0.20	0.026	mg/L			04/06/23 22:16	1
Sulfate	60	H	1.0	0.76	mg/L			04/06/23 22:16	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 15:26	1
Arsenic	0.00056	J	0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 15:26	1
Barium	0.031		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 15:26	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 15:26	1
Boron	0.16		0.080	0.060	mg/L		03/16/23 13:40	04/06/23 17:54	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 15:26	1
Calcium	12		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 15:26	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 15:26	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 15:26	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 15:26	1
Lithium	0.0051		0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 15:26	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 15:26	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 15:26	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 15:26	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:01	03/21/23 17:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	800		10	10	mg/L			03/10/23 16:34	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.80				SU			03/06/23 09:21	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-6-1'

Lab Sample ID: 180-153194-20

Date Collected: 03/06/23 09:38

Matrix: Water

Date Received: 03/08/23 09:28

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			04/07/23 20:39	1
Fluoride, Dissolved	0.064	J H	0.10	0.026	mg/L			04/06/23 22:31	1
Sulfate, Dissolved	58	H	1.0	0.76	mg/L			04/06/23 22:31	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 15:29	1
Arsenic, Dissolved	0.00051	J	0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 15:29	1
Barium, Dissolved	0.034		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 15:29	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 15:29	1
Boron, Dissolved	0.15		0.080	0.060	mg/L		03/16/23 13:40	04/06/23 17:58	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 15:29	1
Calcium, Dissolved	12		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 15:29	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 15:29	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 15:29	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 15:29	1
Lithium, Dissolved	0.0051		0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 15:29	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 15:29	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 15:29	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 15:29	1

Method: SW846 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		03/21/23 09:01	03/21/23 17:35	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	750		10	10	mg/L			03/10/23 16:34	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-6-9.5

Lab Sample ID: 180-153194-21

Date Collected: 03/06/23 09:53

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	880		2.5	1.8	mg/L			03/15/23 17:03	2.5
Fluoride	0.14	J	0.50	0.065	mg/L			03/15/23 17:03	2.5
Sulfate	140		2.5	1.9	mg/L			03/15/23 17:03	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 03:38	1
Arsenic	0.00067	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 03:38	1
Barium	0.030		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 03:38	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 03:38	1
Boron	0.33	B	0.080	0.060	mg/L		03/16/23 16:30	04/20/23 17:17	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 03:38	1
Calcium	23		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 03:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 03:38	1
Cobalt	0.00037	J	0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 03:38	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 03:38	1
Lithium	0.010		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 03:38	1
Molybdenum	0.00070	J	0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 03:38	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 03:38	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 03:38	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:03	03/21/23 17:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1700		20	20	mg/L			03/10/23 16:34	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.66				SU			03/06/23 09:53	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-6-9.5

Lab Sample ID: 180-153194-22

Date Collected: 03/06/23 10:10

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	840		2.5	1.8	mg/L			03/15/23 17:22	2.5
Fluoride, Dissolved	0.14	J	0.25	0.065	mg/L			03/15/23 17:22	2.5
Sulfate, Dissolved	130		2.5	1.9	mg/L			03/15/23 17:22	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 03:42	1
Arsenic, Dissolved	0.00046	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 03:42	1
Barium, Dissolved	0.029		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 03:42	1
Beryllium, Dissolved	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 03:42	1
Boron, Dissolved	0.29	B	0.080	0.060	mg/L		03/16/23 16:30	04/20/23 17:20	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 03:42	1
Calcium, Dissolved	22		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 03:42	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 03:42	1
Cobalt, Dissolved	0.00031	J	0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 03:42	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 03:42	1
Lithium, Dissolved	0.0096		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 03:42	1
Molybdenum, Dissolved	0.00067	J	0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 03:42	1
Selenium, Dissolved	0.00079	J	0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 03:42	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 03:42	1

Method: SW846 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		03/21/23 09:03	03/21/23 17:41	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	1600		20	20	mg/L			03/10/23 16:34	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-9-1'

Lab Sample ID: 180-153194-23

Date Collected: 03/06/23 13:06

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	360		1.0	0.71	mg/L			03/15/23 14:47	1
Fluoride	0.065	J F1	0.20	0.026	mg/L			03/15/23 14:47	1
Sulfate	57		1.0	0.76	mg/L			03/15/23 14:47	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 03:45	1
Arsenic	0.00062	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 03:45	1
Barium	0.031		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 03:45	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 03:45	1
Boron	0.14	B	0.080	0.060	mg/L		03/16/23 16:30	04/20/23 17:34	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 03:45	1
Calcium	10		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 03:45	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 03:45	1
Cobalt	0.00030	J	0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 03:45	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 03:45	1
Lithium	0.0051		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 03:45	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 03:45	1
Selenium	0.0016	J	0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 03:45	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 03:45	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:03	03/21/23 17:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	660		10	10	mg/L			03/10/23 16:34	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.67				SU			03/06/23 13:06	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-9-1'

Lab Sample ID: 180-153194-24

Date Collected: 03/06/23 13:22

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	340		1.0	0.71	mg/L			03/15/23 17:40	1
Fluoride, Dissolved	0.069	J	0.10	0.026	mg/L			03/15/23 17:40	1
Sulfate, Dissolved	55		1.0	0.76	mg/L			03/15/23 17:40	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 04:11	1
Arsenic, Dissolved	0.00068	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 04:11	1
Barium, Dissolved	0.033		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 04:11	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 04:11	1
Boron, Dissolved	0.23	B	0.080	0.060	mg/L		03/16/23 16:30	04/20/23 17:51	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 04:11	1
Calcium, Dissolved	11		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 04:11	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 04:11	1
Cobalt, Dissolved	0.00026	J	0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 04:11	1
Lead, Dissolved	0.00099	J	0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 04:11	1
Lithium, Dissolved	0.0058		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 04:11	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 04:11	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 04:11	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 04:11	1

Method: SW846 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		03/21/23 09:03	03/21/23 17:47	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	640		10	10	mg/L			03/10/23 16:34	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-9-4'

Lab Sample ID: 180-153194-25

Date Collected: 03/06/23 13:31

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	480		1.0	0.71	mg/L			03/16/23 16:46	1
Fluoride	0.058	J	0.20	0.026	mg/L			03/16/23 16:46	1
Sulfate	78		1.0	0.76	mg/L			03/16/23 16:46	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 04:15	1
Arsenic	0.00065	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 04:15	1
Barium	0.031		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 04:15	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 04:15	1
Boron	0.21	B	0.080	0.060	mg/L		03/16/23 16:30	04/20/23 17:55	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 04:15	1
Calcium	13		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 04:15	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 04:15	1
Cobalt	0.00029	J	0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 04:15	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 04:15	1
Lithium	0.0065		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 04:15	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 04:15	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 04:15	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 04:15	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:03	03/21/23 17:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	910		10	10	mg/L			03/10/23 16:34	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.61				SU			03/06/23 13:31	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-9-4'

Lab Sample ID: 180-153194-26

Date Collected: 03/06/23 13:45

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	490		1.0	0.71	mg/L			03/16/23 17:04	1
Fluoride, Dissolved	0.063	J	0.10	0.026	mg/L			03/16/23 17:04	1
Sulfate, Dissolved	78		1.0	0.76	mg/L			03/16/23 17:04	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 04:18	1
Arsenic, Dissolved	0.00050	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 04:18	1
Barium, Dissolved	0.031		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 04:18	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 04:18	1
Boron, Dissolved	0.19	B	0.080	0.060	mg/L		03/16/23 16:30	04/20/23 17:58	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 04:18	1
Calcium, Dissolved	13		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 04:18	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 04:18	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 04:18	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 04:18	1
Lithium, Dissolved	0.0062		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 04:18	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 04:18	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 04:18	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 04:18	1

Method: SW846 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		03/21/23 09:03	03/21/23 17:49	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	850		10	10	mg/L			03/10/23 16:34	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-10-2'

Lab Sample ID: 180-153194-27

Date Collected: 03/06/23 12:31

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	600		1.0	0.71	mg/L			03/27/23 14:32	1
Fluoride	0.10	J	0.20	0.026	mg/L			03/27/23 14:32	1
Sulfate	88		1.0	0.76	mg/L			03/27/23 14:32	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 04:22	1
Arsenic	0.00057	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 04:22	1
Barium	0.031		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 04:22	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 04:22	1
Boron	0.16	B	0.080	0.060	mg/L		03/16/23 16:30	04/20/23 18:02	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 04:22	1
Calcium	11		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 04:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 04:22	1
Cobalt	0.00027	J	0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 04:22	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 04:22	1
Lithium	0.0053		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 04:22	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 04:22	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 04:22	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 04:22	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:03	03/21/23 17:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	770		10	10	mg/L			03/10/23 16:34	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.58				SU			03/06/23 12:31	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-10-2'

Lab Sample ID: 180-153194-28

Date Collected: 03/06/23 12:48

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	620		1.0	0.71	mg/L			03/27/23 12:23	1
Fluoride, Dissolved	0.10	F1	0.10	0.026	mg/L			03/27/23 12:23	1
Sulfate, Dissolved	91	F1	1.0	0.76	mg/L			03/27/23 12:23	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 04:26	1
Arsenic, Dissolved	0.00045	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 04:26	1
Barium, Dissolved	0.030		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 04:26	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 04:26	1
Boron, Dissolved	0.15	B	0.080	0.060	mg/L		03/16/23 16:30	04/20/23 18:12	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 04:26	1
Calcium, Dissolved	11		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 04:26	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 04:26	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 04:26	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 04:26	1
Lithium, Dissolved	0.0053		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 04:26	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 04:26	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 04:26	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 04:26	1

Method: SW846 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		03/21/23 09:03	03/21/23 17:51	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	740		10	10	mg/L			03/10/23 16:34	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-11-1'

Lab Sample ID: 180-153194-29

Date Collected: 03/06/23 12:08

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	670		1.0	0.71	mg/L			03/27/23 15:28	1
Fluoride	0.11	J	0.20	0.026	mg/L			03/27/23 15:28	1
Sulfate	97		1.0	0.76	mg/L			03/27/23 15:28	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 04:37	1
Arsenic	0.00062	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 04:37	1
Barium	0.033		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 04:37	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 04:37	1
Boron	0.16	B	0.080	0.060	mg/L		03/16/23 16:30	04/20/23 18:15	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 04:37	1
Calcium	12		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 04:37	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 04:37	1
Cobalt	0.00027	J	0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 04:37	1
Lead	0.00047	J	0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 04:37	1
Lithium	0.0056		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 04:37	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 04:37	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 04:37	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 04:37	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:03	03/21/23 17:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	790		10	10	mg/L			03/10/23 14:54	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.54				SU			03/06/23 12:08	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-11-1'

Lab Sample ID: 180-153194-30

Date Collected: 03/06/23 11:51

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	630		1.0	0.71	mg/L			03/27/23 15:46	1
Fluoride, Dissolved	0.10		0.10	0.026	mg/L			03/27/23 15:46	1
Sulfate, Dissolved	92		1.0	0.76	mg/L			03/27/23 15:46	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 04:40	1
Arsenic, Dissolved	0.00046	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 04:40	1
Barium, Dissolved	0.032		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 04:40	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 04:40	1
Boron, Dissolved	0.16	B	0.080	0.060	mg/L		03/16/23 16:30	04/20/23 18:19	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 04:40	1
Calcium, Dissolved	12		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 04:40	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 04:40	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 04:40	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 04:40	1
Lithium, Dissolved	0.0056		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 04:40	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 04:40	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 04:40	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 04:40	1

Method: SW846 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		03/21/23 09:03	03/21/23 17:53	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	770		10	10	mg/L			03/10/23 14:54	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-12-1'

Lab Sample ID: 180-153194-31

Date Collected: 03/06/23 10:42

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	500		1.0	0.71	mg/L			03/26/23 16:38	1
Fluoride	0.086	J F1	0.20	0.026	mg/L			03/26/23 16:38	1
Sulfate	72	F1	1.0	0.76	mg/L			03/26/23 16:38	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 04:44	1
Arsenic	0.00057	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 04:44	1
Barium	0.031		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 04:44	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 04:44	1
Boron	0.12	B	0.080	0.060	mg/L		03/16/23 16:30	04/20/23 18:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 04:44	1
Calcium	8.9		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 04:44	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 04:44	1
Cobalt	0.00028	J	0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 04:44	1
Lead	0.00039	J	0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 04:44	1
Lithium	0.0044	J	0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 04:44	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 04:44	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 04:44	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 04:44	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:03	03/21/23 17:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	710		10	10	mg/L			03/10/23 16:34	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.60				SU			03/06/23 10:42	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-12-1'

Lab Sample ID: 180-153194-32

Date Collected: 03/06/23 11:12

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	630		1.0	0.71	mg/L			03/27/23 16:05	1
Fluoride, Dissolved	0.11		0.10	0.026	mg/L			03/27/23 16:05	1
Sulfate, Dissolved	91		1.0	0.76	mg/L			03/27/23 16:05	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 04:48	1
Arsenic, Dissolved	0.00049	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 04:48	1
Barium, Dissolved	0.031		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 04:48	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 04:48	1
Boron, Dissolved	0.14	B	0.080	0.060	mg/L		03/16/23 16:30	04/20/23 18:26	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 04:48	1
Calcium, Dissolved	11		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 04:48	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 04:48	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 04:48	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 04:48	1
Lithium, Dissolved	0.0050		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 04:48	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 04:48	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 04:48	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 04:48	1

Method: SW846 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		03/21/23 09:03	03/21/23 17:55	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	750		10	10	mg/L			03/10/23 16:34	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-13-1'

Lab Sample ID: 180-153194-33

Date Collected: 03/06/23 12:21

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	780		2.5	1.8	mg/L			03/18/23 18:55	2.5
Fluoride	0.13	J	0.50	0.065	mg/L			03/18/23 18:55	2.5
Sulfate	110		2.5	1.9	mg/L			03/18/23 18:55	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 04:51	1
Arsenic	0.00060	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 04:51	1
Barium	0.028		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 04:51	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 04:51	1
Boron	0.21	B	0.080	0.060	mg/L		03/16/23 16:30	04/20/23 18:29	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 04:51	1
Calcium	17		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 04:51	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 04:51	1
Cobalt	0.00034	J	0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 04:51	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 04:51	1
Lithium	0.0077		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 04:51	1
Molybdenum	0.00066	J	0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 04:51	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 04:51	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 04:51	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:03	03/21/23 18:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1300		20	20	mg/L			03/10/23 16:34	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.22				SU			03/06/23 12:21	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-13-1'

Lab Sample ID: 180-153194-34

Date Collected: 03/06/23 12:39

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	790		2.5	1.8	mg/L			03/18/23 19:10	2.5
Fluoride, Dissolved	0.13	J	0.25	0.065	mg/L			03/18/23 19:10	2.5
Sulfate, Dissolved	110		2.5	1.9	mg/L			03/18/23 19:10	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 04:55	1
Arsenic, Dissolved	0.00078	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 04:55	1
Barium, Dissolved	0.029		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 04:55	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 04:55	1
Boron, Dissolved	0.22	B	0.080	0.060	mg/L		03/16/23 16:30	04/20/23 18:33	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 04:55	1
Calcium, Dissolved	18		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 04:55	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 04:55	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 04:55	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 04:55	1
Lithium, Dissolved	0.0079		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 04:55	1
Molybdenum, Dissolved	0.00079	J	0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 04:55	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 04:55	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 04:55	1

Method: SW846 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		03/21/23 09:03	03/21/23 18:01	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	1300		20	20	mg/L			03/13/23 15:55	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-14-1.5

Lab Sample ID: 180-153194-35

Date Collected: 03/06/23 13:14

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000		2.5	1.8	mg/L			03/18/23 19:24	2.5
Fluoride	0.14	J	0.50	0.065	mg/L			03/18/23 19:24	2.5
Sulfate	130		2.5	1.9	mg/L			03/18/23 19:24	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 04:58	1
Arsenic	0.00058	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 04:58	1
Barium	0.027		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 04:58	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 04:58	1
Boron	0.27	B	0.080	0.060	mg/L		03/16/23 16:30	04/20/23 18:36	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 04:58	1
Calcium	21		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 04:58	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 04:58	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 04:58	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 04:58	1
Lithium	0.0098		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 04:58	1
Molybdenum	0.00081	J	0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 04:58	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 04:58	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 04:58	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:03	03/21/23 18:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1500		20	20	mg/L			03/13/23 15:55	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.64				SU			03/06/23 13:14	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-14-1.5

Lab Sample ID: 180-153194-36

Date Collected: 03/06/23 13:29

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	950		2.5	1.8	mg/L			03/18/23 19:39	2.5
Fluoride, Dissolved	0.13	J	0.25	0.065	mg/L			03/18/23 19:39	2.5
Sulfate, Dissolved	130		2.5	1.9	mg/L			03/18/23 19:39	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 05:02	1
Arsenic, Dissolved	0.00053	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 05:02	1
Barium, Dissolved	0.029		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 05:02	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 05:02	1
Boron, Dissolved	0.29	B	0.080	0.060	mg/L		03/16/23 16:30	04/21/23 13:11	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 05:02	1
Calcium, Dissolved	21		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 05:02	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 05:02	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 05:02	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 05:02	1
Lithium, Dissolved	0.0095		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 05:02	1
Molybdenum, Dissolved	0.00083	J	0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 05:02	1
Selenium, Dissolved	0.00077	J	0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 05:02	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 05:02	1

Method: SW846 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		03/21/23 09:03	03/21/23 18:03	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	2100		20	20	mg/L			03/13/23 15:55	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-15-1.5

Lab Sample ID: 180-153194-37

Date Collected: 03/06/23 13:50

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300		2.5	1.8	mg/L			03/27/23 13:18	2.5
Fluoride	0.23	J	0.50	0.065	mg/L			03/27/23 13:18	2.5
Sulfate	180		2.5	1.9	mg/L			03/27/23 13:18	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 05:06	1
Arsenic	0.00054	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 05:06	1
Barium	0.028		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 05:06	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 05:06	1
Boron	0.29	B	0.080	0.060	mg/L		03/16/23 16:30	04/21/23 13:24	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 05:06	1
Calcium	22		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 05:06	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 05:06	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 05:06	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 05:06	1
Lithium	0.0094		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 05:06	1
Molybdenum	0.00088	J	0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 05:06	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 05:06	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 05:06	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:03	03/21/23 18:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1600		20	20	mg/L			03/13/23 15:55	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.69				SU			03/06/23 13:50	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-15-1.5

Lab Sample ID: 180-153194-38

Date Collected: 03/06/23 14:10

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	1300		2.5	1.8	mg/L			03/27/23 13:37	2.5
Fluoride, Dissolved	0.15	J	0.25	0.065	mg/L			03/27/23 13:37	2.5
Sulfate, Dissolved	180		2.5	1.9	mg/L			03/27/23 13:37	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 05:17	1
Arsenic, Dissolved	0.00039	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 05:17	1
Barium, Dissolved	0.024		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 05:17	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 05:17	1
Boron, Dissolved	0.26	B	0.080	0.060	mg/L		03/16/23 16:30	04/21/23 13:28	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 05:17	1
Calcium, Dissolved	20		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 05:17	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 05:17	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 05:17	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 05:17	1
Lithium, Dissolved	0.0087		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 05:17	1
Molybdenum, Dissolved	0.00085	J	0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 05:17	1
Selenium, Dissolved	0.0014	J	0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 05:17	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 05:17	1

Method: SW846 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		03/21/23 09:03	03/21/23 18:05	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	1600		20	20	mg/L			03/13/23 15:55	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-16-1.5

Lab Sample ID: 180-153194-39

Date Collected: 03/06/23 14:48

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300		2.5	1.8	mg/L			03/27/23 13:55	2.5
Fluoride	0.18	J	0.50	0.065	mg/L			03/27/23 13:55	2.5
Sulfate	180		2.5	1.9	mg/L			03/27/23 13:55	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 05:20	1
Arsenic	0.00049	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 05:20	1
Barium	0.026		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 05:20	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 05:20	1
Boron	0.26	B	0.080	0.060	mg/L		03/16/23 16:30	04/21/23 13:31	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 05:20	1
Calcium	20		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 05:20	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 05:20	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 05:20	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 05:20	1
Lithium	0.0088		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 05:20	1
Molybdenum	0.00079	J	0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 05:20	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 05:20	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 05:20	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:03	03/21/23 18:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1600		20	20	mg/L			03/13/23 15:55	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.96				SU			03/06/23 14:48	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-16-1.5

Lab Sample ID: 180-153194-40

Date Collected: 03/06/23 15:08

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	1300		2.5	1.8	mg/L			03/27/23 14:14	2.5
Fluoride, Dissolved	0.21	J	0.25	0.065	mg/L			03/27/23 14:14	2.5
Sulfate, Dissolved	180		2.5	1.9	mg/L			03/27/23 14:14	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 05:24	1
Arsenic, Dissolved	0.00053	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 05:24	1
Barium, Dissolved	0.028		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 05:24	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 05:24	1
Boron, Dissolved	0.28	B	0.080	0.060	mg/L		03/16/23 16:30	04/21/23 13:35	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 05:24	1
Calcium, Dissolved	22		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 05:24	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 05:24	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 05:24	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 05:24	1
Lithium, Dissolved	0.0095		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 05:24	1
Molybdenum, Dissolved	0.00089	J	0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 05:24	1
Selenium, Dissolved	0.00082	J	0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 05:24	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 05:24	1

Method: SW846 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		03/21/23 08:59	03/21/23 16:44	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	1600		20	20	mg/L			03/13/23 15:55	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: EB-01
 Date Collected: 03/06/23 08:16
 Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-41
 Matrix: Water

Method: EPA 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			03/21/23 20:29	1
Fluoride	0.031	J	0.20	0.026	mg/L			03/21/23 20:29	1
Sulfate	0.83	J	1.0	0.76	mg/L			03/21/23 20:29	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 00:36	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 00:36	1
Barium	<0.0031		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 00:36	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 00:36	1
Boron	0.078	J	0.080	0.060	mg/L		03/16/23 16:30	04/20/23 14:30	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 00:36	1
Calcium	<0.13		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 00:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 00:36	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 00:36	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 00:36	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 00:36	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 00:36	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 00:36	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 00:36	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 08:59	03/21/23 16:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			03/13/23 15:55	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-17-1'

Lab Sample ID: 180-153194-42

Date Collected: 03/06/23 10:38

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	970		2.5	1.8	mg/L			03/21/23 20:44	2.5
Fluoride	0.15	J	0.50	0.065	mg/L			03/21/23 20:44	2.5
Sulfate	130		2.5	1.9	mg/L			03/21/23 20:44	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 01:01	1
Arsenic	0.0012		0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 01:01	1
Barium	0.046		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 01:01	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 01:01	1
Boron	0.40		0.080	0.060	mg/L		03/16/23 16:30	04/20/23 14:48	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 01:01	1
Calcium	26		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 01:01	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 01:01	1
Cobalt	0.00063	J	0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 01:01	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 01:01	1
Lithium	0.010		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 01:01	1
Molybdenum	0.0013	J	0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 01:01	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 01:01	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 01:01	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 08:59	03/21/23 16:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1800		20	20	mg/L			03/13/23 15:55	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.39				SU			03/06/23 10:38	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: SW-17-1'

Lab Sample ID: 180-153194-43

Date Collected: 03/06/23 10:57

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	950		2.5	1.8	mg/L			03/21/23 20:59	2.5
Fluoride, Dissolved	0.16	J	0.25	0.065	mg/L			03/21/23 20:59	2.5
Sulfate, Dissolved	120		2.5	1.9	mg/L			03/21/23 20:59	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 01:05	1
Arsenic, Dissolved	0.0011		0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 01:05	1
Barium, Dissolved	0.044		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 01:05	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 01:05	1
Boron, Dissolved	0.36		0.080	0.060	mg/L		03/16/23 16:30	04/20/23 14:51	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 01:05	1
Calcium, Dissolved	26		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 01:05	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 01:05	1
Cobalt, Dissolved	0.00052	J	0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 01:05	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 01:05	1
Lithium, Dissolved	0.010		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 01:05	1
Molybdenum, Dissolved	0.0012	J	0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 01:05	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 01:05	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 01:05	1

Method: SW846 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		03/21/23 08:59	03/21/23 16:51	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	1800		20	20	mg/L			03/13/23 14:21	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: FB-01

Lab Sample ID: 180-153194-44

Date Collected: 03/06/23 08:13

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 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			03/21/23 21:43	1
Fluoride	0.027	J	0.20	0.026	mg/L			03/21/23 21:43	1
Sulfate	0.79	J	1.0	0.76	mg/L			03/21/23 21:43	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 01:08	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 01:08	1
Barium	<0.0031		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 01:08	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 01:08	1
Boron	<0.060		0.080	0.060	mg/L		03/16/23 16:30	04/20/23 15:01	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 01:08	1
Calcium	<0.13		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 01:08	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 01:08	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 01:08	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 01:08	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 01:08	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 01:08	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 01:08	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 01:08	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 08:59	03/21/23 16:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			03/13/23 15:55	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: DUP-01

Lab Sample ID: 180-153194-45

Date Collected: 03/06/23 11:21

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	700		2.5	1.8	mg/L			03/21/23 21:58	2.5
Fluoride	0.13	J	0.50	0.065	mg/L			03/21/23 21:58	2.5
Sulfate	99		2.5	1.9	mg/L			03/21/23 21:58	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 01:12	1
Arsenic	0.00071	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 01:12	1
Barium	0.029		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 01:12	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 01:12	1
Boron	0.22		0.080	0.060	mg/L		03/16/23 16:30	04/20/23 15:05	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 01:12	1
Calcium	18		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 01:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 01:12	1
Cobalt	0.00035	J	0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 01:12	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 01:12	1
Lithium	0.0079		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 01:12	1
Molybdenum	0.00070	J	0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 01:12	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 01:12	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 01:12	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 08:59	03/21/23 16:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1300		20	20	mg/L			03/13/23 15:55	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.22				SU			03/06/23 11:21	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: DUP-01

Lab Sample ID: 180-153194-46

Date Collected: 03/06/23 11:39

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	660		2.5	1.8	mg/L			03/21/23 22:13	2.5
Fluoride, Dissolved	0.13	J	0.25	0.065	mg/L			03/21/23 22:13	2.5
Sulfate, Dissolved	95		2.5	1.9	mg/L			03/21/23 22:13	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 01:16	1
Arsenic, Dissolved	0.00059	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 01:16	1
Barium, Dissolved	0.029		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 01:16	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 01:16	1
Boron, Dissolved	0.23		0.080	0.060	mg/L		03/16/23 16:30	04/20/23 15:08	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 01:16	1
Calcium, Dissolved	18		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 01:16	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 01:16	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 01:16	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 01:16	1
Lithium, Dissolved	0.0082		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 01:16	1
Molybdenum, Dissolved	0.00078	J	0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 01:16	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 01:16	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 01:16	1

Method: SW846 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		03/21/23 08:59	03/21/23 16:54	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	1300		20	20	mg/L			03/13/23 15:55	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: DUP-02

Lab Sample ID: 180-153194-47

Date Collected: 03/06/23 16:39

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	630		2.5	1.8	mg/L			03/21/23 22:27	2.5
Fluoride	0.12	J	0.50	0.065	mg/L			03/21/23 22:27	2.5
Sulfate	90		2.5	1.9	mg/L			03/21/23 22:27	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 01:19	1
Arsenic	0.00056	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 01:19	1
Barium	0.035		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 01:19	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 01:19	1
Boron	0.20		0.080	0.060	mg/L		03/16/23 16:30	04/20/23 15:12	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 01:19	1
Calcium	16		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 01:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 01:19	1
Cobalt	0.00032	J	0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 01:19	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 01:19	1
Lithium	0.0076		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 01:19	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 01:19	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 01:19	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 01:19	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 08:59	03/21/23 16:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1200		20	20	mg/L			03/13/23 15:55	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.63				SU			03/06/23 16:39	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: DUP-02

Lab Sample ID: 180-153194-48

Date Collected: 03/06/23 16:56

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	650		2.5	1.8	mg/L			03/27/23 21:19	2.5
Fluoride, Dissolved	0.10	J	0.25	0.065	mg/L			03/27/23 21:19	2.5
Sulfate, Dissolved	94		2.5	1.9	mg/L			03/27/23 21:19	2.5

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 01:30	1
Arsenic, Dissolved	0.00051	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 01:30	1
Barium, Dissolved	0.033		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 01:30	1
Beryllium, Dissolved	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 01:30	1
Boron, Dissolved	0.21		0.080	0.060	mg/L		03/16/23 16:30	04/20/23 15:15	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 01:30	1
Calcium, Dissolved	17		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 01:30	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 01:30	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 01:30	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 01:30	1
Lithium, Dissolved	0.0076		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 01:30	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 01:30	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 01:30	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 01:30	1

Method: SW846 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		03/21/23 08:59	03/21/23 16:57	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	1200		20	20	mg/L			03/13/23 15:55	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: DUP-03

Lab Sample ID: 180-153194-49

Date Collected: 03/06/23 09:42

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	390		1.0	0.71	mg/L			03/27/23 21:37	1
Fluoride	0.054	J	0.20	0.026	mg/L			03/27/23 21:37	1
Sulfate	56		1.0	0.76	mg/L			03/27/23 21:37	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 01:34	1
Arsenic	0.00061	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 01:34	1
Barium	0.033		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 01:34	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 01:34	1
Boron	0.14		0.080	0.060	mg/L		03/16/23 16:30	04/20/23 15:19	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 01:34	1
Calcium	11		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 01:34	1
Chromium	0.0032		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 01:34	1
Cobalt	0.00039	J	0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 01:34	1
Lead	0.00041	J	0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 01:34	1
Lithium	0.0053		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 01:34	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 01:34	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 01:34	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 01:34	1

Method: SW846 EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 08:59	03/21/23 16:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	710		10	10	mg/L			03/13/23 15:55	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.60				SU			03/06/23 09:42	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Client Sample ID: DUP-03

Lab Sample ID: 180-153194-50

Date Collected: 03/06/23 10:12

Matrix: Water

Date Received: 03/08/23 09:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	420		1.0	0.71	mg/L			03/27/23 21:56	1
Fluoride, Dissolved	0.056	J	0.10	0.026	mg/L			03/27/23 21:56	1
Sulfate, Dissolved	61		1.0	0.76	mg/L			03/27/23 21:56	1

Method: SW846 EPA 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 01:38	1
Arsenic, Dissolved	0.00039	J	0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 01:38	1
Barium, Dissolved	0.030		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 01:38	1
Beryllium, Dissolved	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 01:38	1
Boron, Dissolved	0.14		0.080	0.060	mg/L		03/16/23 16:30	04/20/23 15:22	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 01:38	1
Calcium, Dissolved	11		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 01:38	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 01:38	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 01:38	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 01:38	1
Lithium, Dissolved	0.0051		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 01:38	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 01:38	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 01:38	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 01:38	1

Method: SW846 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		03/21/23 08:59	03/21/23 16:59	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids Field Filtered (SM 2540C)	790		10	10	mg/L			03/13/23 15:55	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 180-429105/6
Matrix: Water
Analysis Batch: 429105

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			03/14/23 14:57	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			03/14/23 14:57	1
Fluoride	<0.026		0.20	0.026	mg/L			03/14/23 14:57	1
Fluoride, Dissolved	<0.026		0.20	0.026	mg/L			03/14/23 14:57	1
Sulfate	<0.76		1.0	0.76	mg/L			03/14/23 14:57	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			03/14/23 14:57	1

Lab Sample ID: LCS 180-429105/7
Matrix: Water
Analysis Batch: 429105

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	46.7		mg/L		93	90 - 110
Chloride, Dissolved	50.0	46.7		mg/L		93	90 - 110
Fluoride	2.50	2.44		mg/L		98	90 - 110
Fluoride, Dissolved	2.50	2.44		mg/L		98	90 - 110
Sulfate	50.0	46.9		mg/L		94	90 - 110
Sulfate, Dissolved	50.0	46.9		mg/L		94	90 - 110

Lab Sample ID: 180-153194-15 MS
Matrix: Water
Analysis Batch: 429105

Client Sample ID: SW-5-1'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	220		50.0	249	4	mg/L		59	90 - 110
Fluoride	0.032	J	2.50	2.50		mg/L		99	90 - 110
Sulfate	33		50.0	79.8		mg/L		94	90 - 110

Lab Sample ID: 180-153194-15 MSD
Matrix: Water
Analysis Batch: 429105

Client Sample ID: SW-5-1'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	220		50.0	250	4	mg/L		60	90 - 110	0	20
Fluoride	0.032	J	2.50	2.58		mg/L		102	90 - 110	3	20
Sulfate	33		50.0	79.3		mg/L		93	90 - 110	1	20

Lab Sample ID: LB 180-429160/1-A
Matrix: Water
Analysis Batch: 429259

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/15/23 19:13	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			03/15/23 19:13	1
Fluoride	<0.026		0.20	0.026	mg/L			03/15/23 19:13	1
Fluoride, Dissolved	<0.026		0.20	0.026	mg/L			03/15/23 19:13	1
Sulfate	<0.76		1.0	0.76	mg/L			03/15/23 19:13	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			03/15/23 19:13	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 180-429259/6
Matrix: Water
Analysis Batch: 429259

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			03/15/23 13:21	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			03/15/23 13:21	1
Fluoride	<0.026		0.20	0.026	mg/L			03/15/23 13:21	1
Fluoride, Dissolved	<0.026		0.20	0.026	mg/L			03/15/23 13:21	1
Sulfate	<0.76		1.0	0.76	mg/L			03/15/23 13:21	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			03/15/23 13:21	1

Lab Sample ID: LCS 180-429259/7
Matrix: Water
Analysis Batch: 429259

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	49.5		mg/L		99	90 - 110
Chloride, Dissolved	50.0	49.5		mg/L		99	90 - 110
Fluoride	2.50	2.73		mg/L		109	90 - 110
Fluoride, Dissolved	2.50	2.73		mg/L		109	90 - 110
Sulfate	50.0	54.0		mg/L		108	90 - 110
Sulfate, Dissolved	50.0	54.0		mg/L		108	90 - 110

Lab Sample ID: 180-153194-23 MS
Matrix: Water
Analysis Batch: 429259

Client Sample ID: SW-9-1'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	360		50.0	389	4	mg/L		67	90 - 110
Chloride, Dissolved	360		50.0	389	4	mg/L		67	90 - 110
Fluoride	0.065	J F1	2.50	2.91	F1	mg/L		114	90 - 110
Fluoride, Dissolved	0.065	J F1	2.50	2.91	F1	mg/L		114	90 - 110
Sulfate	57		50.0	110		mg/L		105	90 - 110
Sulfate, Dissolved	57		50.0	110		mg/L		105	90 - 110

Lab Sample ID: 180-153194-23 MSD
Matrix: Water
Analysis Batch: 429259

Client Sample ID: SW-9-1'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	360		50.0	389	4	mg/L		67	90 - 110	0	20
Chloride, Dissolved	360		50.0	389	4	mg/L		67	90 - 110	0	20
Fluoride	0.065	J F1	2.50	2.91	F1	mg/L		114	90 - 110	0	20
Fluoride, Dissolved	0.065	J F1	2.50	2.91	F1	mg/L		114	90 - 110	0	20
Sulfate	57		50.0	109		mg/L		104	90 - 110	0	20
Sulfate, Dissolved	57		50.0	109		mg/L		104	90 - 110	0	20

Lab Sample ID: MB 180-429426/6
Matrix: Water
Analysis Batch: 429426

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			03/16/23 14:18	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 180-429426/6
Matrix: Water
Analysis Batch: 429426

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			03/16/23 14:18	1
Fluoride	<0.026		0.20	0.026	mg/L			03/16/23 14:18	1
Fluoride, Dissolved	<0.026		0.20	0.026	mg/L			03/16/23 14:18	1
Sulfate	<0.76		1.0	0.76	mg/L			03/16/23 14:18	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			03/16/23 14:18	1

Lab Sample ID: LCS 180-429426/7
Matrix: Water
Analysis Batch: 429426

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	49.4		mg/L		99	90 - 110
Chloride, Dissolved	50.0	49.4		mg/L		99	90 - 110
Fluoride	2.50	2.62		mg/L		105	90 - 110
Fluoride, Dissolved	2.50	2.62		mg/L		105	90 - 110
Sulfate	50.0	54.0		mg/L		108	90 - 110
Sulfate, Dissolved	50.0	54.0		mg/L		108	90 - 110

Lab Sample ID: MB 180-429641/6
Matrix: Water
Analysis Batch: 429641

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			03/18/23 14:20	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			03/18/23 14:20	1
Fluoride	<0.026		0.20	0.026	mg/L			03/18/23 14:20	1
Fluoride, Dissolved	<0.026		0.20	0.026	mg/L			03/18/23 14:20	1
Sulfate	<0.76		1.0	0.76	mg/L			03/18/23 14:20	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			03/18/23 14:20	1

Lab Sample ID: LCS 180-429641/7
Matrix: Water
Analysis Batch: 429641

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	52.1		mg/L		104	90 - 110
Chloride, Dissolved	50.0	52.1		mg/L		104	90 - 110
Fluoride	2.50	2.74		mg/L		110	90 - 110
Fluoride, Dissolved	2.50	2.74		mg/L		110	90 - 110
Sulfate	50.0	51.7		mg/L		103	90 - 110
Sulfate, Dissolved	50.0	51.7		mg/L		103	90 - 110

Lab Sample ID: MB 180-429847/6
Matrix: Water
Analysis Batch: 429847

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			03/21/23 16:36	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			03/21/23 16:36	1
Fluoride	<0.026		0.20	0.026	mg/L			03/21/23 16:36	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 180-429847/6
Matrix: Water
Analysis Batch: 429847

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride, Dissolved	<0.026		0.20	0.026	mg/L			03/21/23 16:36	1
Sulfate	<0.76		1.0	0.76	mg/L			03/21/23 16:36	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			03/21/23 16:36	1

Lab Sample ID: LCS 180-429847/7
Matrix: Water
Analysis Batch: 429847

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	51.5		mg/L		103	90 - 110
Chloride, Dissolved	50.0	51.5		mg/L		103	90 - 110
Fluoride	2.50	2.75		mg/L		110	90 - 110
Fluoride, Dissolved	2.50	2.75		mg/L		110	90 - 110
Sulfate	50.0	50.1		mg/L		100	90 - 110
Sulfate, Dissolved	50.0	50.1		mg/L		100	90 - 110

Lab Sample ID: MB 180-430387/6
Matrix: Water
Analysis Batch: 430387

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			03/26/23 11:33	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			03/26/23 11:33	1
Fluoride	<0.026		0.20	0.026	mg/L			03/26/23 11:33	1
Fluoride, Dissolved	<0.026		0.20	0.026	mg/L			03/26/23 11:33	1
Sulfate	<0.76		1.0	0.76	mg/L			03/26/23 11:33	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			03/26/23 11:33	1

Lab Sample ID: LCS 180-430387/7
Matrix: Water
Analysis Batch: 430387

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	49.5		mg/L		99	90 - 110
Chloride, Dissolved	50.0	49.5		mg/L		99	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	48.6		mg/L		97	90 - 110
Sulfate, Dissolved	50.0	48.6		mg/L		97	90 - 110

Lab Sample ID: 180-153194-31 MS
Matrix: Water
Analysis Batch: 430387

Client Sample ID: SW-12-1'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	500		50.0	539	4	mg/L		80	90 - 110
Chloride, Dissolved	500		50.0	539	4	mg/L		80	90 - 110
Fluoride	0.086	J F1	2.50	3.26	F1	mg/L		127	90 - 110
Fluoride, Dissolved	0.086	J F1	2.50	3.26	F1	mg/L		127	90 - 110
Sulfate	72	F1	50.0	135	F1	mg/L		124	90 - 110

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-153194-31 MS
Matrix: Water
Analysis Batch: 430387

Client Sample ID: SW-12-1'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate, Dissolved	72	F1	50.0	135	F1	mg/L		124	90 - 110

Lab Sample ID: 180-153194-31 MSD
Matrix: Water
Analysis Batch: 430387

Client Sample ID: SW-12-1'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	500		50.0	554	4	mg/L		109	90 - 110	3	20
Chloride, Dissolved	500		50.0	554	4	mg/L		109	90 - 110	3	20
Fluoride	0.086	J F1	2.50	3.35	F1	mg/L		131	90 - 110	3	20
Fluoride, Dissolved	0.086	J F1	2.50	3.35	F1	mg/L		131	90 - 110	3	20
Sulfate	72	F1	50.0	138	F1	mg/L		130	90 - 110	2	20
Sulfate, Dissolved	72	F1	50.0	138	F1	mg/L		130	90 - 110	2	20

Lab Sample ID: MB 180-430456/6
Matrix: Water
Analysis Batch: 430456

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			03/27/23 11:46	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			03/27/23 11:46	1
Fluoride	<0.026		0.10	0.026	mg/L			03/27/23 11:46	1
Fluoride, Dissolved	<0.026		0.10	0.026	mg/L			03/27/23 11:46	1
Sulfate	<0.76		1.0	0.76	mg/L			03/27/23 11:46	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			03/27/23 11:46	1

Lab Sample ID: LCS 180-430456/7
Matrix: Water
Analysis Batch: 430456

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	49.8		mg/L		100	90 - 110
Chloride, Dissolved	50.0	49.8		mg/L		100	90 - 110
Fluoride	2.50	2.54		mg/L		101	90 - 110
Fluoride, Dissolved	2.50	2.54		mg/L		101	90 - 110
Sulfate	50.0	49.1		mg/L		98	90 - 110
Sulfate, Dissolved	50.0	49.1		mg/L		98	90 - 110

Lab Sample ID: MB 180-431544/6
Matrix: Water
Analysis Batch: 431544

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			04/06/23 10:54	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			04/06/23 10:54	1
Fluoride	<0.026		0.20	0.026	mg/L			04/06/23 10:54	1
Fluoride, Dissolved	<0.026		0.20	0.026	mg/L			04/06/23 10:54	1
Sulfate	<0.76		1.0	0.76	mg/L			04/06/23 10:54	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			04/06/23 10:54	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 180-431544/7
Matrix: Water
Analysis Batch: 431544

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	2.55		mg/L		102	90 - 110
Fluoride, Dissolved	2.50	2.55		mg/L		102	90 - 110
Sulfate	50.0	50.0		mg/L		100	90 - 110
Sulfate, Dissolved	50.0	50.0		mg/L		100	90 - 110

Lab Sample ID: MB 180-431690/14
Matrix: Water
Analysis Batch: 431690

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			04/07/23 13:20	1
Chloride, Dissolved	<0.71		1.0	0.71	mg/L			04/07/23 13:20	1
Fluoride	<0.026		0.20	0.026	mg/L			04/07/23 13:20	1
Fluoride, Dissolved	<0.026		0.20	0.026	mg/L			04/07/23 13:20	1
Sulfate	<0.76		1.0	0.76	mg/L			04/07/23 13:20	1
Sulfate, Dissolved	<0.76		1.0	0.76	mg/L			04/07/23 13:20	1

Lab Sample ID: LCS 180-431690/15
Matrix: Water
Analysis Batch: 431690

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	47.8		mg/L		96	90 - 110
Chloride, Dissolved	50.0	47.8		mg/L		96	90 - 110
Fluoride	2.50	2.57		mg/L		103	90 - 110
Fluoride, Dissolved	2.50	2.57		mg/L		103	90 - 110
Sulfate	50.0	47.5		mg/L		95	90 - 110
Sulfate, Dissolved	50.0	47.5		mg/L		95	90 - 110

Lab Sample ID: 180-153194-28 MS
Matrix: Water
Analysis Batch: 430456

Client Sample ID: SW-10-2'
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	620		50.0	677	4	mg/L		107	90 - 110
Chloride, Dissolved	620		50.0	677	4	mg/L		107	90 - 110
Fluoride	0.10	F1	2.50	3.80	F1	mg/L		148	90 - 110
Fluoride, Dissolved	0.10	F1	2.50	3.80	F1	mg/L		148	90 - 110
Sulfate	91	F1	50.0	165	F1	mg/L		148	90 - 110
Sulfate, Dissolved	91	F1	50.0	165	F1	mg/L		148	90 - 110

Lab Sample ID: 180-153194-28 MSD
Matrix: Water
Analysis Batch: 430456

Client Sample ID: SW-10-2'
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	620		50.0	667	4	mg/L		87	90 - 110	2	20

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-153194-28 MSD
Matrix: Water
Analysis Batch: 430456

Client Sample ID: SW-10-2'
Prep Type: Dissolved

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		
Chloride, Dissolved	620		50.0	667	4	mg/L		87	90 - 110	2	20
Fluoride	0.10	F1	2.50	3.74	F1	mg/L		145	90 - 110	2	20
Fluoride, Dissolved	0.10	F1	2.50	3.74	F1	mg/L		145	90 - 110	2	20
Sulfate	91	F1	50.0	162	F1	mg/L		142	90 - 110	2	20
Sulfate, Dissolved	91	F1	50.0	162	F1	mg/L		142	90 - 110	2	20

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: 180-153194-16 MS
Matrix: Water
Analysis Batch: 429105

Client Sample ID: SW-5-1'
Prep Type: Dissolved

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		
Chloride, Dissolved	200	F1	50.0	239	F1	mg/L		83	90 - 110		
Fluoride, Dissolved	0.032	J	2.50	2.35		mg/L		93	90 - 110		
Sulfate, Dissolved	30	F1	50.0	77.4		mg/L		96	90 - 110		

Lab Sample ID: 180-153194-16 MSD
Matrix: Water
Analysis Batch: 429105

Client Sample ID: SW-5-1'
Prep Type: Dissolved

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		
Chloride, Dissolved	200	F1	50.0	230	F1	mg/L		65	90 - 110	4	20
Fluoride, Dissolved	0.032	J	2.50	2.34		mg/L		92	90 - 110	1	20
Sulfate, Dissolved	30	F1	50.0	74.3	F1	mg/L		89	90 - 110	4	20

Method: EPA 6020B - Metals (ICP/MS)

Lab Sample ID: MB 180-429423/1-A
Matrix: Water
Analysis Batch: 430351

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 429423

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 13:25	1
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 13:40	03/24/23 13:25	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 13:25	1
Arsenic, Dissolved	<0.00028		0.0010	0.00028	mg/L		03/16/23 13:40	03/24/23 13:25	1
Barium	<0.0031		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 13:25	1
Barium, Dissolved	<0.0031		0.010	0.0031	mg/L		03/16/23 13:40	03/24/23 13:25	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 13:25	1
Beryllium, Dissolved	<0.00027		0.0025	0.00027	mg/L		03/16/23 13:40	03/24/23 13:25	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 13:25	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 13:40	03/24/23 13:25	1
Calcium	<0.13		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 13:25	1
Calcium, Dissolved	<0.13		0.50	0.13	mg/L		03/16/23 13:40	03/24/23 13:25	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 13:25	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 13:40	03/24/23 13:25	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 13:25	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 13:40	03/24/23 13:25	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 13:25	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 180-429423/1-A
Matrix: Water
Analysis Batch: 430351

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 429423

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 13:40	03/24/23 13:25	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 13:25	1
Lithium, Dissolved	<0.0013		0.0050	0.0013	mg/L		03/16/23 13:40	03/24/23 13:25	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 13:25	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		03/16/23 13:40	03/24/23 13:25	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 13:25	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 13:40	03/24/23 13:25	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 13:25	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 13:40	03/24/23 13:25	1

Lab Sample ID: MB 180-429423/1-A
Matrix: Water
Analysis Batch: 431647

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 429423

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.060		0.080	0.060	mg/L		03/16/23 13:40	04/06/23 16:00	1
Boron, Dissolved	<0.060		0.080	0.060	mg/L		03/16/23 13:40	04/06/23 16:00	1

Lab Sample ID: MB 180-429423/1-A
Matrix: Water
Analysis Batch: 431774

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 429423

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.060		0.080	0.060	mg/L		03/16/23 13:40	04/07/23 09:39	1
Boron, Dissolved	<0.060		0.080	0.060	mg/L		03/16/23 13:40	04/07/23 09:39	1

Lab Sample ID: LCS 180-429423/2-A
Matrix: Water
Analysis Batch: 430351

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 429423

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony, Dissolved	0.250	0.273		mg/L		109	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	0.976		mg/L		98	80 - 120
Barium, Dissolved	1.00	0.976		mg/L		98	80 - 120
Beryllium	0.500	0.490		mg/L		98	80 - 120
Beryllium, Dissolved	0.500	0.490		mg/L		98	80 - 120
Cadmium	0.500	0.499		mg/L		100	80 - 120
Cadmium, Dissolved	0.500	0.499		mg/L		100	80 - 120
Calcium	25.0	25.7		mg/L		103	80 - 120
Calcium, Dissolved	25.0	25.7		mg/L		103	80 - 120
Chromium	0.500	0.480		mg/L		96	80 - 120
Chromium, Dissolved	0.500	0.480		mg/L		96	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	0.489		mg/L		98	80 - 120
Lead, Dissolved	0.500	0.489		mg/L		98	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-429423/2-A
Matrix: Water
Analysis Batch: 430351

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 429423

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.456		mg/L		91	80 - 120
Lithium, Dissolved	0.500	0.456		mg/L		91	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	0.955		mg/L		95	80 - 120
Selenium, Dissolved	1.00	0.955		mg/L		95	80 - 120
Thallium	1.00	1.01		mg/L		101	80 - 120
Thallium, Dissolved	1.00	1.01		mg/L		101	80 - 120

Lab Sample ID: LCS 180-429423/2-A
Matrix: Water
Analysis Batch: 431647

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 429423

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.21		mg/L		97	80 - 120
Boron, Dissolved	1.25	1.21		mg/L		97	80 - 120

Lab Sample ID: LCS 180-429423/2-A
Matrix: Water
Analysis Batch: 431774

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 429423

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.27		mg/L		102	80 - 120
Boron, Dissolved	1.25	1.27		mg/L		102	80 - 120

Lab Sample ID: 180-153194-1 MS
Matrix: Water
Analysis Batch: 430351

Client Sample ID: SW-1-1'
Prep Type: Total Recoverable
Prep Batch: 429423

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00097		0.250	0.273		mg/L		109	75 - 125
Antimony, Dissolved	<0.00097		0.250	0.273		mg/L		109	75 - 125
Arsenic	0.00092	J	1.00	1.04		mg/L		104	75 - 125
Arsenic, Dissolved	0.00092	J	1.00	1.04		mg/L		104	75 - 125
Barium	0.036		1.00	1.02		mg/L		99	75 - 125
Barium, Dissolved	0.036		1.00	1.02		mg/L		99	75 - 125
Beryllium	<0.00027		0.500	0.494		mg/L		99	75 - 125
Beryllium, Dissolved	<0.00027		0.500	0.494		mg/L		99	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	17		25.0	44.0		mg/L		107	75 - 125
Calcium, Dissolved	17		25.0	44.0		mg/L		107	75 - 125
Chromium	<0.0015		0.500	0.484		mg/L		97	75 - 125
Chromium, Dissolved	<0.0015		0.500	0.484		mg/L		97	75 - 125
Cobalt	0.00029	J	0.500	0.514		mg/L		103	75 - 125
Cobalt, Dissolved	0.00029	J	0.500	0.514		mg/L		103	75 - 125
Lead	<0.00038		0.500	0.493		mg/L		99	75 - 125
Lead, Dissolved	<0.00038		0.500	0.493		mg/L		99	75 - 125
Lithium	0.0077		0.500	0.462		mg/L		91	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-153194-1 MS

Matrix: Water

Analysis Batch: 430351

Client Sample ID: SW-1-1'

Prep Type: Total Recoverable

Prep Batch: 429423

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium, Dissolved	0.0077		0.500	0.462		mg/L		91	75 - 125
Molybdenum	0.0010	J	0.500	0.526		mg/L		105	75 - 125
Molybdenum, Dissolved	0.0010	J	0.500	0.526		mg/L		105	75 - 125
Selenium	<0.00074		1.00	0.930		mg/L		93	75 - 125
Selenium, Dissolved	<0.00074		1.00	0.930		mg/L		93	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

Lab Sample ID: 180-153194-1 MSD

Matrix: Water

Analysis Batch: 430351

Client Sample ID: SW-1-1'

Prep Type: Total Recoverable

Prep Batch: 429423

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00097		0.250	0.290		mg/L		116	75 - 125	6	20
Antimony, Dissolved	<0.00097		0.250	0.290		mg/L		116	75 - 125	6	20
Arsenic	0.00092	J	1.00	1.10		mg/L		110	75 - 125	5	20
Arsenic, Dissolved	0.00092	J	1.00	1.10		mg/L		110	75 - 125	5	20
Barium	0.036		1.00	1.08		mg/L		104	75 - 125	5	20
Barium, Dissolved	0.036		1.00	1.08		mg/L		104	75 - 125	5	20
Beryllium	<0.00027		0.500	0.513		mg/L		103	75 - 125	4	20
Beryllium, Dissolved	<0.00027		0.500	0.513		mg/L		103	75 - 125	4	20
Cadmium	<0.00022		0.500	0.518		mg/L		104	75 - 125	5	20
Cadmium, Dissolved	<0.00022		0.500	0.518		mg/L		104	75 - 125	5	20
Calcium	17		25.0	44.5		mg/L		109	75 - 125	1	20
Calcium, Dissolved	17		25.0	44.5		mg/L		109	75 - 125	1	20
Chromium	<0.0015		0.500	0.507		mg/L		101	75 - 125	4	20
Chromium, Dissolved	<0.0015		0.500	0.507		mg/L		101	75 - 125	4	20
Cobalt	0.00029	J	0.500	0.543		mg/L		108	75 - 125	5	20
Cobalt, Dissolved	0.00029	J	0.500	0.543		mg/L		108	75 - 125	5	20
Lead	<0.00038		0.500	0.520		mg/L		104	75 - 125	5	20
Lead, Dissolved	<0.00038		0.500	0.520		mg/L		104	75 - 125	5	20
Lithium	0.0077		0.500	0.489		mg/L		96	75 - 125	6	20
Lithium, Dissolved	0.0077		0.500	0.489		mg/L		96	75 - 125	6	20
Molybdenum	0.0010	J	0.500	0.550		mg/L		110	75 - 125	4	20
Molybdenum, Dissolved	0.0010	J	0.500	0.550		mg/L		110	75 - 125	4	20
Selenium	<0.00074		1.00	0.981		mg/L		98	75 - 125	5	20
Selenium, Dissolved	<0.00074		1.00	0.981		mg/L		98	75 - 125	5	20
Thallium	<0.00047		1.00	1.09		mg/L		109	75 - 125	7	20
Thallium, Dissolved	<0.00047		1.00	1.09		mg/L		109	75 - 125	7	20

Lab Sample ID: MB 180-429462/1-A

Matrix: Water

Analysis Batch: 432609

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 429462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 00:28	1
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 00:28	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 00:28	1
Arsenic, Dissolved	<0.00028		0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 00:28	1

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 180-429462/1-A
Matrix: Water
Analysis Batch: 432609

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 429462

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.0031		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 00:28	1
Barium, Dissolved	<0.0031		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 00:28	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 00:28	1
Beryllium, Dissolved	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 00:28	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 00:28	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 00:28	1
Calcium	<0.13		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 00:28	1
Calcium, Dissolved	<0.13		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 00:28	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 00:28	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 00:28	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 00:28	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 00:28	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 00:28	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 00:28	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 00:28	1
Lithium, Dissolved	<0.0013		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 00:28	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 00:28	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 00:28	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 00:28	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 00:28	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 00:28	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 00:28	1

Lab Sample ID: MB 180-429462/1-A
Matrix: Water
Analysis Batch: 432968

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 429462

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.060		0.080	0.060	mg/L		03/16/23 16:30	04/20/23 14:24	1
Boron, Dissolved	<0.060		0.080	0.060	mg/L		03/16/23 16:30	04/20/23 14:24	1

Lab Sample ID: LCS 180-429462/2-A
Matrix: Water
Analysis Batch: 432609

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 429462

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Antimony	0.250	0.251		mg/L		100	80 - 120
Antimony, Dissolved	0.250	0.251		mg/L		100	80 - 120
Arsenic	1.00	1.02		mg/L		102	80 - 120
Arsenic, Dissolved	1.00	1.02		mg/L		102	80 - 120
Barium	1.00	0.954		mg/L		95	80 - 120
Barium, Dissolved	1.00	0.954		mg/L		95	80 - 120
Beryllium	0.500	0.500	^+	mg/L		100	80 - 120
Beryllium, Dissolved	0.500	0.500	^+	mg/L		100	80 - 120
Cadmium	0.500	0.487		mg/L		97	80 - 120
Cadmium, Dissolved	0.500	0.487		mg/L		97	80 - 120
Calcium	25.0	25.1		mg/L		101	80 - 120
Calcium, Dissolved	25.0	25.1		mg/L		101	80 - 120
Chromium	0.500	0.502		mg/L		100	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-429462/2-A
Matrix: Water
Analysis Batch: 432609

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 429462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, Dissolved	0.500	0.502		mg/L		100	80 - 120
Cobalt	0.500	0.442		mg/L		88	80 - 120
Cobalt, Dissolved	0.500	0.442		mg/L		88	80 - 120
Lead	0.500	0.478		mg/L		96	80 - 120
Lead, Dissolved	0.500	0.478		mg/L		96	80 - 120
Lithium	0.500	0.450		mg/L		90	80 - 120
Lithium, Dissolved	0.500	0.450		mg/L		90	80 - 120
Molybdenum	0.500	0.462		mg/L		92	80 - 120
Molybdenum, Dissolved	0.500	0.462		mg/L		92	80 - 120
Selenium	1.00	0.957		mg/L		96	80 - 120
Selenium, Dissolved	1.00	0.957		mg/L		96	80 - 120
Thallium	1.00	0.968		mg/L		97	80 - 120
Thallium, Dissolved	1.00	0.968		mg/L		97	80 - 120

Lab Sample ID: LCS 180-429462/2-A
Matrix: Water
Analysis Batch: 432968

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 429462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.13		mg/L		90	80 - 120
Boron, Dissolved	1.25	1.13		mg/L		90	80 - 120

Lab Sample ID: 180-153194-41 MS
Matrix: Water
Analysis Batch: 432609

Client Sample ID: EB-01
Prep Type: Total Recoverable
Prep Batch: 429462

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00097		0.250	0.267		mg/L		107	75 - 125
Antimony, Dissolved	<0.00097		0.250	0.267		mg/L		107	75 - 125
Arsenic	<0.00028		1.00	1.09		mg/L		109	75 - 125
Arsenic, Dissolved	<0.00028		1.00	1.09		mg/L		109	75 - 125
Barium	<0.0031		1.00	1.02		mg/L		102	75 - 125
Barium, Dissolved	<0.0031		1.00	1.02		mg/L		102	75 - 125
Beryllium	<0.00027	^+	0.500	0.534		mg/L		107	75 - 125
Beryllium, Dissolved	<0.00027	^+	0.500	0.534		mg/L		107	75 - 125
Cadmium	<0.00022		0.500	0.521		mg/L		104	75 - 125
Cadmium, Dissolved	<0.00022		0.500	0.521		mg/L		104	75 - 125
Calcium	<0.13		25.0	27.2		mg/L		109	75 - 125
Calcium, Dissolved	<0.13		25.0	27.2		mg/L		109	75 - 125
Chromium	<0.0015		0.500	0.544		mg/L		109	75 - 125
Chromium, Dissolved	<0.0015		0.500	0.544		mg/L		109	75 - 125
Cobalt	<0.00026		0.500	0.473		mg/L		95	75 - 125
Cobalt, Dissolved	<0.00026		0.500	0.473		mg/L		95	75 - 125
Lead	<0.00038		0.500	0.519		mg/L		104	75 - 125
Lead, Dissolved	<0.00038		0.500	0.519		mg/L		104	75 - 125
Lithium	<0.0013		0.500	0.491		mg/L		98	75 - 125
Lithium, Dissolved	<0.0013		0.500	0.491		mg/L		98	75 - 125
Molybdenum	<0.00061		0.500	0.498		mg/L		100	75 - 125
Molybdenum, Dissolved	<0.00061		0.500	0.498		mg/L		100	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-153194-41 MS
Matrix: Water
Analysis Batch: 432609

Client Sample ID: EB-01
Prep Type: Total Recoverable
Prep Batch: 429462

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	<0.00074		1.00	1.04		mg/L		104	75 - 125
Selenium, Dissolved	<0.00074		1.00	1.04		mg/L		104	75 - 125
Thallium	<0.00047		1.00	1.05		mg/L		105	75 - 125
Thallium, Dissolved	<0.00047		1.00	1.05		mg/L		105	75 - 125

Lab Sample ID: 180-153194-41 MS
Matrix: Water
Analysis Batch: 432968

Client Sample ID: EB-01
Prep Type: Total Recoverable
Prep Batch: 429462

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.078	J	1.25	1.18		mg/L		88	75 - 125
Boron, Dissolved	0.078	J	1.25	1.18		mg/L		88	75 - 125

Lab Sample ID: 180-153194-41 MSD
Matrix: Water
Analysis Batch: 432609

Client Sample ID: EB-01
Prep Type: Total Recoverable
Prep Batch: 429462

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Antimony	<0.00097		0.250	0.261		mg/L		104	75 - 125	2	20
Antimony, Dissolved	<0.00097		0.250	0.261		mg/L		104	75 - 125	2	20
Arsenic	<0.00028		1.00	1.06		mg/L		106	75 - 125	2	20
Arsenic, Dissolved	<0.00028		1.00	1.06		mg/L		106	75 - 125	2	20
Barium	<0.0031		1.00	1.00		mg/L		100	75 - 125	2	20
Barium, Dissolved	<0.0031		1.00	1.00		mg/L		100	75 - 125	2	20
Beryllium	<0.00027	^+	0.500	0.538		mg/L		108	75 - 125	1	20
Beryllium, Dissolved	<0.00027	^+	0.500	0.538		mg/L		108	75 - 125	1	20
Cadmium	<0.00022		0.500	0.508		mg/L		102	75 - 125	3	20
Cadmium, Dissolved	<0.00022		0.500	0.508		mg/L		102	75 - 125	3	20
Calcium	<0.13		25.0	26.4		mg/L		106	75 - 125	3	20
Calcium, Dissolved	<0.13		25.0	26.4		mg/L		106	75 - 125	3	20
Chromium	<0.0015		0.500	0.531		mg/L		106	75 - 125	2	20
Chromium, Dissolved	<0.0015		0.500	0.531		mg/L		106	75 - 125	2	20
Cobalt	<0.00026		0.500	0.459		mg/L		92	75 - 125	3	20
Cobalt, Dissolved	<0.00026		0.500	0.459		mg/L		92	75 - 125	3	20
Lead	<0.00038		0.500	0.498		mg/L		100	75 - 125	4	20
Lead, Dissolved	<0.00038		0.500	0.498		mg/L		100	75 - 125	4	20
Lithium	<0.0013		0.500	0.488		mg/L		98	75 - 125	1	20
Lithium, Dissolved	<0.0013		0.500	0.488		mg/L		98	75 - 125	1	20
Molybdenum	<0.00061		0.500	0.481		mg/L		96	75 - 125	3	20
Molybdenum, Dissolved	<0.00061		0.500	0.481		mg/L		96	75 - 125	3	20
Selenium	<0.00074		1.00	1.00		mg/L		100	75 - 125	4	20
Selenium, Dissolved	<0.00074		1.00	1.00		mg/L		100	75 - 125	4	20
Thallium	<0.00047		1.00	1.01		mg/L		101	75 - 125	3	20
Thallium, Dissolved	<0.00047		1.00	1.01		mg/L		101	75 - 125	3	20

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-153194-41 MSD
Matrix: Water
Analysis Batch: 432968

Client Sample ID: EB-01
Prep Type: Total Recoverable
Prep Batch: 429462

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Boron	0.078	J	1.25	1.20		mg/L		90	75 - 125	2	20
Boron, Dissolved	0.078	J	1.25	1.20		mg/L		90	75 - 125	2	20

Lab Sample ID: MB 180-429463/1-A
Matrix: Water
Analysis Batch: 432609

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 429463

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 03:31	1
Antimony, Dissolved	<0.00097		0.0020	0.00097	mg/L		03/16/23 16:30	04/18/23 03:31	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 03:31	1
Arsenic, Dissolved	<0.00028		0.0010	0.00028	mg/L		03/16/23 16:30	04/18/23 03:31	1
Barium	<0.0031		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 03:31	1
Barium, Dissolved	<0.0031		0.010	0.0031	mg/L		03/16/23 16:30	04/18/23 03:31	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 03:31	1
Beryllium, Dissolved	<0.00027	^+	0.0025	0.00027	mg/L		03/16/23 16:30	04/18/23 03:31	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 03:31	1
Cadmium, Dissolved	<0.00022		0.0025	0.00022	mg/L		03/16/23 16:30	04/18/23 03:31	1
Calcium	<0.13		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 03:31	1
Calcium, Dissolved	<0.13		0.50	0.13	mg/L		03/16/23 16:30	04/18/23 03:31	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 03:31	1
Chromium, Dissolved	<0.0015		0.0020	0.0015	mg/L		03/16/23 16:30	04/18/23 03:31	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 03:31	1
Cobalt, Dissolved	<0.00026		0.0025	0.00026	mg/L		03/16/23 16:30	04/18/23 03:31	1
Lead	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 03:31	1
Lead, Dissolved	<0.00038		0.0010	0.00038	mg/L		03/16/23 16:30	04/18/23 03:31	1
Lithium	<0.0013		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 03:31	1
Lithium, Dissolved	<0.0013		0.0050	0.0013	mg/L		03/16/23 16:30	04/18/23 03:31	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 03:31	1
Molybdenum, Dissolved	<0.00061		0.015	0.00061	mg/L		03/16/23 16:30	04/18/23 03:31	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 03:31	1
Selenium, Dissolved	<0.00074		0.0050	0.00074	mg/L		03/16/23 16:30	04/18/23 03:31	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 03:31	1
Thallium, Dissolved	<0.00047		0.0010	0.00047	mg/L		03/16/23 16:30	04/18/23 03:31	1

Lab Sample ID: MB 180-429463/1-A
Matrix: Water
Analysis Batch: 432968

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 429463

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	0.0619	J	0.080	0.060	mg/L		03/16/23 16:30	04/20/23 17:10	1
Boron, Dissolved	0.0619	J	0.080	0.060	mg/L		03/16/23 16:30	04/20/23 17:10	1

Lab Sample ID: LCS 180-429463/2-A
Matrix: Water
Analysis Batch: 432609

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 429463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Antimony	0.250	0.249		mg/L		100	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-429463/2-A
Matrix: Water
Analysis Batch: 432609

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 429463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony, Dissolved	0.250	0.249		mg/L		100	80 - 120
Arsenic	1.00	0.975		mg/L		97	80 - 120
Arsenic, Dissolved	1.00	0.975		mg/L		97	80 - 120
Barium	1.00	0.938		mg/L		94	80 - 120
Barium, Dissolved	1.00	0.938		mg/L		94	80 - 120
Beryllium	0.500	0.464	^+	mg/L		93	80 - 120
Beryllium, Dissolved	0.500	0.464	^+	mg/L		93	80 - 120
Cadmium	0.500	0.475		mg/L		95	80 - 120
Cadmium, Dissolved	0.500	0.475		mg/L		95	80 - 120
Calcium	25.0	25.3		mg/L		101	80 - 120
Calcium, Dissolved	25.0	25.3		mg/L		101	80 - 120
Chromium	0.500	0.486		mg/L		97	80 - 120
Chromium, Dissolved	0.500	0.486		mg/L		97	80 - 120
Cobalt	0.500	0.442		mg/L		88	80 - 120
Cobalt, Dissolved	0.500	0.442		mg/L		88	80 - 120
Lead	0.500	0.479		mg/L		96	80 - 120
Lead, Dissolved	0.500	0.479		mg/L		96	80 - 120
Lithium	0.500	0.453		mg/L		91	80 - 120
Lithium, Dissolved	0.500	0.453		mg/L		91	80 - 120
Molybdenum	0.500	0.467		mg/L		93	80 - 120
Molybdenum, Dissolved	0.500	0.467		mg/L		93	80 - 120
Selenium	1.00	0.954		mg/L		95	80 - 120
Selenium, Dissolved	1.00	0.954		mg/L		95	80 - 120
Thallium	1.00	0.967		mg/L		97	80 - 120
Thallium, Dissolved	1.00	0.967		mg/L		97	80 - 120

Lab Sample ID: LCS 180-429463/2-A
Matrix: Water
Analysis Batch: 432968

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 429463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.05		mg/L		84	80 - 120
Boron, Dissolved	1.25	1.05		mg/L		84	80 - 120

Lab Sample ID: 180-153194-23 MS
Matrix: Water
Analysis Batch: 432609

Client Sample ID: SW-9-1'
Prep Type: Total Recoverable
Prep Batch: 429463

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00097		0.250	0.277		mg/L		111	75 - 125
Antimony, Dissolved	<0.00097		0.250	0.277		mg/L		111	75 - 125
Arsenic	0.00062	J	1.00	1.10		mg/L		110	75 - 125
Arsenic, Dissolved	0.00062	J	1.00	1.10		mg/L		110	75 - 125
Barium	0.031		1.00	1.10		mg/L		107	75 - 125
Barium, Dissolved	0.031		1.00	1.10		mg/L		107	75 - 125
Beryllium	<0.00027	^+	0.500	0.520		mg/L		104	75 - 125
Beryllium, Dissolved	<0.00027	^+	0.500	0.520		mg/L		104	75 - 125
Cadmium	<0.00022		0.500	0.525		mg/L		105	75 - 125
Cadmium, Dissolved	<0.00022		0.500	0.525		mg/L		105	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-153194-23 MS

Matrix: Water

Analysis Batch: 432609

Client Sample ID: SW-9-1'

Prep Type: Total Recoverable

Prep Batch: 429463

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec	
	Result			Result	Qualifier				Limits	
Calcium	10		25.0	39.9		mg/L		119	75 - 125	
Calcium, Dissolved	10		25.0	39.9		mg/L		119	75 - 125	
Chromium	<0.0015		0.500	0.543		mg/L		109	75 - 125	
Chromium, Dissolved	<0.0015		0.500	0.543		mg/L		109	75 - 125	
Cobalt	0.00030	J	0.500	0.489		mg/L		98	75 - 125	
Cobalt, Dissolved	0.00030	J	0.500	0.489		mg/L		98	75 - 125	
Lead	<0.00038		0.500	0.534		mg/L		107	75 - 125	
Lead, Dissolved	<0.00038		0.500	0.534		mg/L		107	75 - 125	
Lithium	0.0051		0.500	0.518		mg/L		103	75 - 125	
Lithium, Dissolved	0.0051		0.500	0.518		mg/L		103	75 - 125	
Molybdenum	<0.00061		0.500	0.526		mg/L		105	75 - 125	
Molybdenum, Dissolved	<0.00061		0.500	0.526		mg/L		105	75 - 125	
Selenium	0.0016	J	1.00	1.04		mg/L		104	75 - 125	
Selenium, Dissolved	0.0016	J	1.00	1.04		mg/L		104	75 - 125	
Thallium	<0.00047		1.00	1.08		mg/L		108	75 - 125	
Thallium, Dissolved	<0.00047		1.00	1.08		mg/L		108	75 - 125	

Lab Sample ID: 180-153194-23 MS

Matrix: Water

Analysis Batch: 432968

Client Sample ID: SW-9-1'

Prep Type: Total Recoverable

Prep Batch: 429463

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec	
	Result			Result	Qualifier				Limits	
Boron	0.14	B	1.25	1.33		mg/L		95	75 - 125	
Boron, Dissolved	0.14	B	1.25	1.33		mg/L		95	75 - 125	

Lab Sample ID: 180-153194-23 MSD

Matrix: Water

Analysis Batch: 432609

Client Sample ID: SW-9-1'

Prep Type: Total Recoverable

Prep Batch: 429463

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result			Result	Qualifier				Limits	RPD	Limit	
Antimony	<0.00097		0.250	0.263		mg/L		105	75 - 125		5	20
Antimony, Dissolved	<0.00097		0.250	0.263		mg/L		105	75 - 125		5	20
Arsenic	0.00062	J	1.00	1.04		mg/L		104	75 - 125		5	20
Arsenic, Dissolved	0.00062	J	1.00	1.04		mg/L		104	75 - 125		5	20
Barium	0.031		1.00	1.04		mg/L		101	75 - 125		6	20
Barium, Dissolved	0.031		1.00	1.04		mg/L		101	75 - 125		6	20
Beryllium	<0.00027	^+	0.500	0.501		mg/L		100	75 - 125		4	20
Beryllium, Dissolved	<0.00027	^+	0.500	0.501		mg/L		100	75 - 125		4	20
Cadmium	<0.00022		0.500	0.499		mg/L		100	75 - 125		5	20
Cadmium, Dissolved	<0.00022		0.500	0.499		mg/L		100	75 - 125		5	20
Calcium	10		25.0	36.8		mg/L		106	75 - 125		8	20
Calcium, Dissolved	10		25.0	36.8		mg/L		106	75 - 125		8	20
Chromium	<0.0015		0.500	0.516		mg/L		103	75 - 125		5	20
Chromium, Dissolved	<0.0015		0.500	0.516		mg/L		103	75 - 125		5	20
Cobalt	0.00030	J	0.500	0.464		mg/L		93	75 - 125		5	20
Cobalt, Dissolved	0.00030	J	0.500	0.464		mg/L		93	75 - 125		5	20
Lead	<0.00038		0.500	0.504		mg/L		101	75 - 125		6	20
Lead, Dissolved	<0.00038		0.500	0.504		mg/L		101	75 - 125		6	20
Lithium	0.0051		0.500	0.490		mg/L		97	75 - 125		6	20

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method: EPA 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-153194-23 MSD
Matrix: Water
Analysis Batch: 432609

Client Sample ID: SW-9-1'
Prep Type: Total Recoverable
Prep Batch: 429463

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium, Dissolved	0.0051		0.500	0.490		mg/L		97	75 - 125	6	20
Molybdenum	<0.00061		0.500	0.491		mg/L		98	75 - 125	7	20
Molybdenum, Dissolved	<0.00061		0.500	0.491		mg/L		98	75 - 125	7	20
Selenium	0.0016	J	1.00	0.984		mg/L		98	75 - 125	6	20
Selenium, Dissolved	0.0016	J	1.00	0.984		mg/L		98	75 - 125	6	20
Thallium	<0.00047		1.00	1.02		mg/L		102	75 - 125	5	20
Thallium, Dissolved	<0.00047		1.00	1.02		mg/L		102	75 - 125	5	20

Lab Sample ID: 180-153194-23 MSD
Matrix: Water
Analysis Batch: 432968

Client Sample ID: SW-9-1'
Prep Type: Total Recoverable
Prep Batch: 429463

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.14	B	1.25	1.27		mg/L		91	75 - 125	4	20
Boron, Dissolved	0.14	B	1.25	1.27		mg/L		91	75 - 125	4	20

Lab Sample ID: MB 180-432098/1-A
Matrix: Water
Analysis Batch: 432466

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 432098

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		04/12/23 14:30	04/14/23 12:57	1

Lab Sample ID: LCS 180-432098/2-A
Matrix: Water
Analysis Batch: 432466

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 432098

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.15		mg/L		92	80 - 120

Lab Sample ID: 180-153194-1 MS
Matrix: Water
Analysis Batch: 432466

Client Sample ID: SW-1-1'
Prep Type: Total Recoverable
Prep Batch: 432098

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.24		1.25	1.38		mg/L		91	75 - 125

Lab Sample ID: 180-153194-1 MSD
Matrix: Water
Analysis Batch: 432466

Client Sample ID: SW-1-1'
Prep Type: Total Recoverable
Prep Batch: 432098

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.24		1.25	1.54		mg/L		104	75 - 125	11	20

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-429852/1-A
Matrix: Water
Analysis Batch: 429969

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 429852

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 08:59	03/21/23 16:25	1
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		03/21/23 08:59	03/21/23 16:25	1

Lab Sample ID: LCS 180-429852/2-A
Matrix: Water
Analysis Batch: 429969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 429852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00219		mg/L		88	80 - 120
Mercury, Dissolved	0.00250	0.00219		mg/L		88	80 - 120

Lab Sample ID: MB 180-429853/1-A
Matrix: Water
Analysis Batch: 429969

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 429853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:01	03/21/23 17:03	1
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:01	03/21/23 17:03	1

Lab Sample ID: LCS 180-429853/2-A
Matrix: Water
Analysis Batch: 429969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 429853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00232		mg/L		93	80 - 120
Mercury, Dissolved	0.00250	0.00232		mg/L		93	80 - 120

Lab Sample ID: 180-153194-1 MS
Matrix: Water
Analysis Batch: 429969

Client Sample ID: SW-1-1'
Prep Type: Total/NA
Prep Batch: 429853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00013		0.00100	0.000899		mg/L		90	75 - 125
Mercury, Dissolved	<0.00013		0.00100	0.000899		mg/L		90	75 - 125

Lab Sample ID: 180-153194-1 MSD
Matrix: Water
Analysis Batch: 429969

Client Sample ID: SW-1-1'
Prep Type: Total/NA
Prep Batch: 429853

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00013		0.00100	0.000882		mg/L		88	75 - 125	2	20
Mercury, Dissolved	<0.00013		0.00100	0.000882		mg/L		88	75 - 125	2	20

Lab Sample ID: MB 180-429855/1-A
Matrix: Water
Analysis Batch: 429969

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 429855

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:02	03/21/23 17:36	1
Mercury, Dissolved	<0.00013		0.00020	0.00013	mg/L		03/21/23 09:02	03/21/23 17:36	1

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: LCS 180-429855/2-A
Matrix: Water
Analysis Batch: 429969

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 429855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00222		mg/L		89	80 - 120
Mercury, Dissolved	0.00250	0.00222		mg/L		89	80 - 120

Lab Sample ID: 180-153194-21 MS
Matrix: Water
Analysis Batch: 429969

Client Sample ID: SW-6-9.5
Prep Type: Total/NA
Prep Batch: 429855

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00013		0.00100	0.000895		mg/L		90	75 - 125
Mercury, Dissolved	<0.00013		0.00100	0.000895		mg/L		90	75 - 125

Lab Sample ID: 180-153194-21 MSD
Matrix: Water
Analysis Batch: 429969

Client Sample ID: SW-6-9.5
Prep Type: Total/NA
Prep Batch: 429855

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00013		0.00100	0.000919		mg/L		92	75 - 125	3	20
Mercury, Dissolved	<0.00013		0.00100	0.000919		mg/L		92	75 - 125	3	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-428840/1
Matrix: Water
Analysis Batch: 428840

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			03/10/23 14:54	1
Total Dissolved Solids Field Filtered	<10		10	10	mg/L			03/10/23 14:54	1

Lab Sample ID: LCS 180-428840/2
Matrix: Water
Analysis Batch: 428840

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	665	660		mg/L		99	85 - 115
Total Dissolved Solids Field Filtered	665	660		mg/L		99	85 - 115

Lab Sample ID: 180-153194-15 DU
Matrix: Water
Analysis Batch: 428840

Client Sample ID: SW-5-1'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	410		408		mg/L		0.2	10
Total Dissolved Solids Field Filtered	410		408		mg/L		0.2	10

Eurofins Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 180-153194-29 DU
Matrix: Water
Analysis Batch: 428840

Client Sample ID: SW-11-1'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	790		775		mg/L		NC	10
Total Dissolved Solids Field Filtered	790		775		mg/L		NC	10

Lab Sample ID: MB 180-428845/1
Matrix: Water
Analysis Batch: 428845

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			03/10/23 15:42	1
Total Dissolved Solids Field Filtered	<10		10	10	mg/L			03/10/23 15:42	1

Lab Sample ID: LCS 180-428845/2
Matrix: Water
Analysis Batch: 428845

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	665	660		mg/L		99	85 - 115
Total Dissolved Solids Field Filtered	665	660		mg/L		99	85 - 115

Lab Sample ID: MB 180-428853/1
Matrix: Water
Analysis Batch: 428853

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			03/10/23 16:34	1
Total Dissolved Solids Field Filtered	<10		10	10	mg/L			03/10/23 16:34	1

Lab Sample ID: LCS 180-428853/2
Matrix: Water
Analysis Batch: 428853

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	665	636		mg/L		96	85 - 115
Total Dissolved Solids Field Filtered	665	636		mg/L		96	85 - 115

Lab Sample ID: 180-153194-19 DU
Matrix: Water
Analysis Batch: 428853

Client Sample ID: SW-6-1'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	800		799		mg/L		0	10
Total Dissolved Solids Field Filtered	800		799		mg/L		0	10

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MB 180-429030/1
Matrix: Water
Analysis Batch: 429030

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 Field Filtered	<10		10	10	mg/L			03/13/23 14:21	1

Lab Sample ID: LCS 180-429030/2
Matrix: Water
Analysis Batch: 429030

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 Field Filtered	665	664		mg/L		100	85 - 115

Lab Sample ID: MB 180-429044/1
Matrix: Water
Analysis Batch: 429044

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			03/13/23 15:55	1
Total Dissolved Solids Field Filtered	<10		10	10	mg/L			03/13/23 15:55	1

Lab Sample ID: LCS 180-429044/2
Matrix: Water
Analysis Batch: 429044

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	665	626		mg/L		94	85 - 115
Total Dissolved Solids Field Filtered	665	626		mg/L		94	85 - 115

Lab Sample ID: 180-153194-44 DU
Matrix: Water
Analysis Batch: 429044

Client Sample ID: FB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	<10		<10		mg/L		NC	10
Total Dissolved Solids Field Filtered	<10		<10		mg/L		NC	10

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

HPLC/IC

Analysis Batch: 429105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-1	SW-1-1'	Total/NA	Water	300.0	
180-153194-2	SW-1-1'	Dissolved	Water	EPA 300.0 R2.1	
180-153194-3	SW-1-7'	Total/NA	Water	300.0	
180-153194-4	SW-1-7'	Dissolved	Water	EPA 300.0 R2.1	
180-153194-5	SW-2-1'	Total/NA	Water	300.0	
180-153194-6	SW-2-1'	Dissolved	Water	EPA 300.0 R2.1	
180-153194-7	SW-2-7'	Total/NA	Water	300.0	
180-153194-8	SW-2-7'	Dissolved	Water	EPA 300.0 R2.1	
180-153194-9	SW-3-1'	Total/NA	Water	300.0	
180-153194-10	SW-3-1'	Dissolved	Water	EPA 300.0 R2.1	
180-153194-11	SW-3-4'	Total/NA	Water	300.0	
180-153194-12	SW-3-4'	Dissolved	Water	EPA 300.0 R2.1	
180-153194-15	SW-5-1'	Total/NA	Water	300.0	
180-153194-16	SW-5-1'	Dissolved	Water	EPA 300.0 R2.1	
MB 180-429105/6	Method Blank	Total/NA	Water	300.0	
LCS 180-429105/7	Lab Control Sample	Total/NA	Water	300.0	
180-153194-15 MS	SW-5-1'	Total/NA	Water	300.0	
180-153194-15 MSD	SW-5-1'	Total/NA	Water	300.0	
180-153194-16 MS	SW-5-1'	Dissolved	Water	EPA 300.0 R2.1	
180-153194-16 MSD	SW-5-1'	Dissolved	Water	EPA 300.0 R2.1	

Leach Batch: 429160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 180-429160/1-A	Method Blank	Total/NA	Water	D3987-85	

Analysis Batch: 429259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-21	SW-6-9.5	Total/NA	Water	300.0	
180-153194-22	SW-6-9.5	Dissolved	Water	EPA 300.0 R2.1	
180-153194-23	SW-9-1'	Total/NA	Water	300.0	
180-153194-24	SW-9-1'	Dissolved	Water	EPA 300.0 R2.1	
LB 180-429160/1-A	Method Blank	Total/NA	Water	300.0	429160
MB 180-429259/6	Method Blank	Total/NA	Water	300.0	
LCS 180-429259/7	Lab Control Sample	Total/NA	Water	300.0	
180-153194-23 MS	SW-9-1'	Total/NA	Water	300.0	
180-153194-23 MSD	SW-9-1'	Total/NA	Water	300.0	

Analysis Batch: 429426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-25	SW-9-4'	Total/NA	Water	300.0	
180-153194-26	SW-9-4'	Dissolved	Water	EPA 300.0 R2.1	
MB 180-429426/6	Method Blank	Total/NA	Water	300.0	
LCS 180-429426/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 429641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-33	SW-13-1'	Total/NA	Water	300.0	
180-153194-34	SW-13-1'	Dissolved	Water	EPA 300.0 R2.1	
180-153194-35	SW-14-1.5	Total/NA	Water	300.0	
180-153194-36	SW-14-1.5	Dissolved	Water	EPA 300.0 R2.1	
MB 180-429641/6	Method Blank	Total/NA	Water	300.0	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

HPLC/IC (Continued)

Analysis Batch: 429641 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-429641/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 429847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-41	EB-01	Total/NA	Water	300.0	
180-153194-42	SW-17-1'	Total/NA	Water	300.0	
180-153194-43	SW-17-1'	Dissolved	Water	EPA 300.0 R2.1	
180-153194-44	FB-01	Total/NA	Water	300.0	
180-153194-45	DUP-01	Total/NA	Water	300.0	
180-153194-46	DUP-01	Dissolved	Water	EPA 300.0 R2.1	
180-153194-47	DUP-02	Total/NA	Water	300.0	
MB 180-429847/6	Method Blank	Total/NA	Water	300.0	
LCS 180-429847/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 430387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-31	SW-12-1'	Total/NA	Water	300.0	
MB 180-430387/6	Method Blank	Total/NA	Water	300.0	
LCS 180-430387/7	Lab Control Sample	Total/NA	Water	300.0	
180-153194-31 MS	SW-12-1'	Total/NA	Water	300.0	
180-153194-31 MSD	SW-12-1'	Total/NA	Water	300.0	

Analysis Batch: 430456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-27	SW-10-2'	Total/NA	Water	300.0	
180-153194-28	SW-10-2'	Dissolved	Water	EPA 300.0 R2.1	
180-153194-29	SW-11-1'	Total/NA	Water	300.0	
180-153194-30	SW-11-1'	Dissolved	Water	EPA 300.0 R2.1	
180-153194-32	SW-12-1'	Dissolved	Water	EPA 300.0 R2.1	
180-153194-37	SW-15-1.5	Total/NA	Water	300.0	
180-153194-38	SW-15-1.5	Dissolved	Water	EPA 300.0 R2.1	
180-153194-39	SW-16-1.5	Total/NA	Water	300.0	
180-153194-40	SW-16-1.5	Dissolved	Water	EPA 300.0 R2.1	
180-153194-48	DUP-02	Dissolved	Water	EPA 300.0 R2.1	
180-153194-49	DUP-03	Total/NA	Water	300.0	
180-153194-50	DUP-03	Dissolved	Water	EPA 300.0 R2.1	
MB 180-430456/6	Method Blank	Total/NA	Water	300.0	
LCS 180-430456/7	Lab Control Sample	Total/NA	Water	300.0	
180-153194-28 MS	SW-10-2'	Dissolved	Water	300.0	
180-153194-28 MSD	SW-10-2'	Dissolved	Water	300.0	

Analysis Batch: 431544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-13	SW-4-1.5	Total/NA	Water	300.0	
180-153194-14	SW-4-1.5	Dissolved	Water	EPA 300.0 R2.1	
180-153194-17	SW-5-13'	Total/NA	Water	300.0	
180-153194-18	SW-5-13'	Dissolved	Water	EPA 300.0 R2.1	
180-153194-19	SW-6-1'	Total/NA	Water	300.0	
180-153194-20	SW-6-1'	Dissolved	Water	EPA 300.0 R2.1	
MB 180-431544/6	Method Blank	Total/NA	Water	300.0	
LCS 180-431544/7	Lab Control Sample	Total/NA	Water	300.0	

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QC Association Summary

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

HPLC/IC

Analysis Batch: 431690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-13	SW-4-1.5	Total/NA	Water	300.0	
180-153194-14	SW-4-1.5	Dissolved	Water	EPA 300.0 R2.1	
180-153194-17	SW-5-13'	Total/NA	Water	300.0	
180-153194-18	SW-5-13'	Dissolved	Water	EPA 300.0 R2.1	
180-153194-19	SW-6-1'	Total/NA	Water	300.0	
180-153194-20	SW-6-1'	Dissolved	Water	EPA 300.0 R2.1	
MB 180-431690/14	Method Blank	Total/NA	Water	300.0	
LCS 180-431690/15	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 429423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-1	SW-1-1'	Total Recoverable	Water	3005A	
180-153194-2	SW-1-1'	Dissolved	Water	3005A	
180-153194-3	SW-1-7'	Total Recoverable	Water	3005A	
180-153194-4	SW-1-7'	Dissolved	Water	3005A	
180-153194-5	SW-2-1'	Total Recoverable	Water	3005A	
180-153194-6	SW-2-1'	Dissolved	Water	3005A	
180-153194-7	SW-2-7'	Total Recoverable	Water	3005A	
180-153194-8	SW-2-7'	Dissolved	Water	3005A	
180-153194-9	SW-3-1'	Total Recoverable	Water	3005A	
180-153194-10	SW-3-1'	Dissolved	Water	3005A	
180-153194-11	SW-3-4'	Total Recoverable	Water	3005A	
180-153194-12	SW-3-4'	Dissolved	Water	3005A	
180-153194-13	SW-4-1.5	Total Recoverable	Water	3005A	
180-153194-14	SW-4-1.5	Dissolved	Water	3005A	
180-153194-15	SW-5-1'	Total Recoverable	Water	3005A	
180-153194-16	SW-5-1'	Dissolved	Water	3005A	
180-153194-17	SW-5-13'	Total Recoverable	Water	3005A	
180-153194-18	SW-5-13'	Dissolved	Water	3005A	
180-153194-19	SW-6-1'	Total Recoverable	Water	3005A	
180-153194-20	SW-6-1'	Dissolved	Water	3005A	
MB 180-429423/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-429423/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-153194-1 MS	SW-1-1'	Total Recoverable	Water	3005A	
180-153194-1 MSD	SW-1-1'	Total Recoverable	Water	3005A	

Prep Batch: 429462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-41	EB-01	Total Recoverable	Water	3005A	
180-153194-42	SW-17-1'	Total Recoverable	Water	3005A	
180-153194-43	SW-17-1'	Dissolved	Water	3005A	
180-153194-44	FB-01	Total Recoverable	Water	3005A	
180-153194-45	DUP-01	Total Recoverable	Water	3005A	
180-153194-46	DUP-01	Dissolved	Water	3005A	
180-153194-47	DUP-02	Total Recoverable	Water	3005A	
180-153194-48	DUP-02	Dissolved	Water	3005A	
180-153194-49	DUP-03	Total Recoverable	Water	3005A	
180-153194-50	DUP-03	Dissolved	Water	3005A	
MB 180-429462/1-A	Method Blank	Total Recoverable	Water	3005A	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Metals (Continued)

Prep Batch: 429462 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-429462/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-153194-41 MS	EB-01	Total Recoverable	Water	3005A	
180-153194-41 MSD	EB-01	Total Recoverable	Water	3005A	

Prep Batch: 429463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-21	SW-6-9.5	Total Recoverable	Water	3005A	
180-153194-22	SW-6-9.5	Dissolved	Water	3005A	
180-153194-23	SW-9-1'	Total Recoverable	Water	3005A	
180-153194-24	SW-9-1'	Dissolved	Water	3005A	
180-153194-25	SW-9-4'	Total Recoverable	Water	3005A	
180-153194-26	SW-9-4'	Dissolved	Water	3005A	
180-153194-27	SW-10-2'	Total Recoverable	Water	3005A	
180-153194-28	SW-10-2'	Dissolved	Water	3005A	
180-153194-29	SW-11-1'	Total Recoverable	Water	3005A	
180-153194-30	SW-11-1'	Dissolved	Water	3005A	
180-153194-31	SW-12-1'	Total Recoverable	Water	3005A	
180-153194-32	SW-12-1'	Dissolved	Water	3005A	
180-153194-33	SW-13-1'	Total Recoverable	Water	3005A	
180-153194-34	SW-13-1'	Dissolved	Water	3005A	
180-153194-35	SW-14-1.5	Total Recoverable	Water	3005A	
180-153194-36	SW-14-1.5	Dissolved	Water	3005A	
180-153194-37	SW-15-1.5	Total Recoverable	Water	3005A	
180-153194-38	SW-15-1.5	Dissolved	Water	3005A	
180-153194-39	SW-16-1.5	Total Recoverable	Water	3005A	
180-153194-40	SW-16-1.5	Dissolved	Water	3005A	
MB 180-429463/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-429463/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-153194-23 MS	SW-9-1'	Total Recoverable	Water	3005A	
180-153194-23 MSD	SW-9-1'	Total Recoverable	Water	3005A	

Prep Batch: 429852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-40	SW-16-1.5	Dissolved	Water	7470A	
180-153194-41	EB-01	Total/NA	Water	7470A	
180-153194-42	SW-17-1'	Total/NA	Water	7470A	
180-153194-43	SW-17-1'	Dissolved	Water	7470A	
180-153194-44	FB-01	Total/NA	Water	7470A	
180-153194-45	DUP-01	Total/NA	Water	7470A	
180-153194-46	DUP-01	Dissolved	Water	7470A	
180-153194-47	DUP-02	Total/NA	Water	7470A	
180-153194-48	DUP-02	Dissolved	Water	7470A	
180-153194-49	DUP-03	Total/NA	Water	7470A	
180-153194-50	DUP-03	Dissolved	Water	7470A	
MB 180-429852/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-429852/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 429853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-1	SW-1-1'	Total/NA	Water	7470A	
180-153194-2	SW-1-1'	Dissolved	Water	7470A	

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QC Association Summary

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Metals (Continued)

Prep Batch: 429853 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-3	SW-1-7'	Total/NA	Water	7470A	
180-153194-4	SW-1-7'	Dissolved	Water	7470A	
180-153194-5	SW-2-1'	Total/NA	Water	7470A	
180-153194-6	SW-2-1'	Dissolved	Water	7470A	
180-153194-7	SW-2-7'	Total/NA	Water	7470A	
180-153194-8	SW-2-7'	Dissolved	Water	7470A	
180-153194-9	SW-3-1'	Total/NA	Water	7470A	
180-153194-10	SW-3-1'	Dissolved	Water	7470A	
180-153194-11	SW-3-4'	Total/NA	Water	7470A	
180-153194-12	SW-3-4'	Dissolved	Water	7470A	
180-153194-13	SW-4-1.5	Total/NA	Water	7470A	
180-153194-14	SW-4-1.5	Dissolved	Water	7470A	
180-153194-15	SW-5-1'	Total/NA	Water	7470A	
180-153194-16	SW-5-1'	Dissolved	Water	7470A	
180-153194-17	SW-5-13'	Total/NA	Water	7470A	
180-153194-18	SW-5-13'	Dissolved	Water	7470A	
180-153194-19	SW-6-1'	Total/NA	Water	7470A	
180-153194-20	SW-6-1'	Dissolved	Water	7470A	
MB 180-429853/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-429853/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-153194-1 MS	SW-1-1'	Total/NA	Water	7470A	
180-153194-1 MSD	SW-1-1'	Total/NA	Water	7470A	

Prep Batch: 429855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-21	SW-6-9.5	Total/NA	Water	7470A	
180-153194-22	SW-6-9.5	Dissolved	Water	7470A	
180-153194-23	SW-9-1'	Total/NA	Water	7470A	
180-153194-24	SW-9-1'	Dissolved	Water	7470A	
180-153194-25	SW-9-4'	Total/NA	Water	7470A	
180-153194-26	SW-9-4'	Dissolved	Water	7470A	
180-153194-27	SW-10-2'	Total/NA	Water	7470A	
180-153194-28	SW-10-2'	Dissolved	Water	7470A	
180-153194-29	SW-11-1'	Total/NA	Water	7470A	
180-153194-30	SW-11-1'	Dissolved	Water	7470A	
180-153194-31	SW-12-1'	Total/NA	Water	7470A	
180-153194-32	SW-12-1'	Dissolved	Water	7470A	
180-153194-33	SW-13-1'	Total/NA	Water	7470A	
180-153194-34	SW-13-1'	Dissolved	Water	7470A	
180-153194-35	SW-14-1.5	Total/NA	Water	7470A	
180-153194-36	SW-14-1.5	Dissolved	Water	7470A	
180-153194-37	SW-15-1.5	Total/NA	Water	7470A	
180-153194-38	SW-15-1.5	Dissolved	Water	7470A	
180-153194-39	SW-16-1.5	Total/NA	Water	7470A	
MB 180-429855/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-429855/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-153194-21 MS	SW-6-9.5	Total/NA	Water	7470A	
180-153194-21 MSD	SW-6-9.5	Total/NA	Water	7470A	

QC Association Summary

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Metals

Analysis Batch: 429969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-1	SW-1-1'	Total/NA	Water	EPA 7470A	429853
180-153194-2	SW-1-1'	Dissolved	Water	EPA 7470A	429853
180-153194-3	SW-1-7'	Total/NA	Water	EPA 7470A	429853
180-153194-4	SW-1-7'	Dissolved	Water	EPA 7470A	429853
180-153194-5	SW-2-1'	Total/NA	Water	EPA 7470A	429853
180-153194-6	SW-2-1'	Dissolved	Water	EPA 7470A	429853
180-153194-7	SW-2-7'	Total/NA	Water	EPA 7470A	429853
180-153194-8	SW-2-7'	Dissolved	Water	EPA 7470A	429853
180-153194-9	SW-3-1'	Total/NA	Water	EPA 7470A	429853
180-153194-10	SW-3-1'	Dissolved	Water	EPA 7470A	429853
180-153194-11	SW-3-4'	Total/NA	Water	EPA 7470A	429853
180-153194-12	SW-3-4'	Dissolved	Water	EPA 7470A	429853
180-153194-13	SW-4-1.5	Total/NA	Water	EPA 7470A	429853
180-153194-14	SW-4-1.5	Dissolved	Water	EPA 7470A	429853
180-153194-15	SW-5-1'	Total/NA	Water	EPA 7470A	429853
180-153194-16	SW-5-1'	Dissolved	Water	EPA 7470A	429853
180-153194-17	SW-5-13'	Total/NA	Water	EPA 7470A	429853
180-153194-18	SW-5-13'	Dissolved	Water	EPA 7470A	429853
180-153194-19	SW-6-1'	Total/NA	Water	EPA 7470A	429853
180-153194-20	SW-6-1'	Dissolved	Water	EPA 7470A	429853
180-153194-21	SW-6-9.5	Total/NA	Water	EPA 7470A	429855
180-153194-22	SW-6-9.5	Dissolved	Water	EPA 7470A	429855
180-153194-23	SW-9-1'	Total/NA	Water	EPA 7470A	429855
180-153194-24	SW-9-1'	Dissolved	Water	EPA 7470A	429855
180-153194-25	SW-9-4'	Total/NA	Water	EPA 7470A	429855
180-153194-26	SW-9-4'	Dissolved	Water	EPA 7470A	429855
180-153194-27	SW-10-2'	Total/NA	Water	EPA 7470A	429855
180-153194-28	SW-10-2'	Dissolved	Water	EPA 7470A	429855
180-153194-29	SW-11-1'	Total/NA	Water	EPA 7470A	429855
180-153194-30	SW-11-1'	Dissolved	Water	EPA 7470A	429855
180-153194-31	SW-12-1'	Total/NA	Water	EPA 7470A	429855
180-153194-32	SW-12-1'	Dissolved	Water	EPA 7470A	429855
180-153194-33	SW-13-1'	Total/NA	Water	EPA 7470A	429855
180-153194-34	SW-13-1'	Dissolved	Water	EPA 7470A	429855
180-153194-35	SW-14-1.5	Total/NA	Water	EPA 7470A	429855
180-153194-36	SW-14-1.5	Dissolved	Water	EPA 7470A	429855
180-153194-37	SW-15-1.5	Total/NA	Water	EPA 7470A	429855
180-153194-38	SW-15-1.5	Dissolved	Water	EPA 7470A	429855
180-153194-39	SW-16-1.5	Total/NA	Water	EPA 7470A	429855
180-153194-40	SW-16-1.5	Dissolved	Water	EPA 7470A	429852
180-153194-41	EB-01	Total/NA	Water	EPA 7470A	429852
180-153194-42	SW-17-1'	Total/NA	Water	EPA 7470A	429852
180-153194-43	SW-17-1'	Dissolved	Water	EPA 7470A	429852
180-153194-44	FB-01	Total/NA	Water	EPA 7470A	429852
180-153194-45	DUP-01	Total/NA	Water	EPA 7470A	429852
180-153194-46	DUP-01	Dissolved	Water	EPA 7470A	429852
180-153194-47	DUP-02	Total/NA	Water	EPA 7470A	429852
180-153194-48	DUP-02	Dissolved	Water	EPA 7470A	429852
180-153194-49	DUP-03	Total/NA	Water	EPA 7470A	429852
180-153194-50	DUP-03	Dissolved	Water	EPA 7470A	429852
MB 180-429852/1-A	Method Blank	Total/NA	Water	EPA 7470A	429852

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Metals (Continued)

Analysis Batch: 429969 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-429853/1-A	Method Blank	Total/NA	Water	EPA 7470A	429853
MB 180-429855/1-A	Method Blank	Total/NA	Water	EPA 7470A	429855
LCS 180-429852/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	429852
LCS 180-429853/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	429853
LCS 180-429855/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	429855
180-153194-1 MS	SW-1-1'	Total/NA	Water	EPA 7470A	429853
180-153194-1 MSD	SW-1-1'	Total/NA	Water	EPA 7470A	429853
180-153194-21 MS	SW-6-9.5	Total/NA	Water	EPA 7470A	429855
180-153194-21 MSD	SW-6-9.5	Total/NA	Water	EPA 7470A	429855

Analysis Batch: 430351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-1	SW-1-1'	Total Recoverable	Water	EPA 6020B	429423
180-153194-2	SW-1-1'	Dissolved	Water	EPA 6020B	429423
180-153194-3	SW-1-7'	Total Recoverable	Water	EPA 6020B	429423
180-153194-4	SW-1-7'	Dissolved	Water	EPA 6020B	429423
180-153194-5	SW-2-1'	Total Recoverable	Water	EPA 6020B	429423
180-153194-6	SW-2-1'	Dissolved	Water	EPA 6020B	429423
180-153194-7	SW-2-7'	Total Recoverable	Water	EPA 6020B	429423
180-153194-8	SW-2-7'	Dissolved	Water	EPA 6020B	429423
180-153194-9	SW-3-1'	Total Recoverable	Water	EPA 6020B	429423
180-153194-10	SW-3-1'	Dissolved	Water	EPA 6020B	429423
180-153194-11	SW-3-4'	Total Recoverable	Water	EPA 6020B	429423
180-153194-12	SW-3-4'	Dissolved	Water	EPA 6020B	429423
180-153194-13	SW-4-1.5	Total Recoverable	Water	EPA 6020B	429423
180-153194-14	SW-4-1.5	Dissolved	Water	EPA 6020B	429423
180-153194-15	SW-5-1'	Total Recoverable	Water	EPA 6020B	429423
180-153194-16	SW-5-1'	Dissolved	Water	EPA 6020B	429423
180-153194-17	SW-5-13'	Total Recoverable	Water	EPA 6020B	429423
180-153194-18	SW-5-13'	Dissolved	Water	EPA 6020B	429423
180-153194-19	SW-6-1'	Total Recoverable	Water	EPA 6020B	429423
180-153194-20	SW-6-1'	Dissolved	Water	EPA 6020B	429423
MB 180-429423/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	429423
LCS 180-429423/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	429423
180-153194-1 MS	SW-1-1'	Total Recoverable	Water	EPA 6020B	429423
180-153194-1 MSD	SW-1-1'	Total Recoverable	Water	EPA 6020B	429423

Analysis Batch: 431647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-12	SW-3-4'	Dissolved	Water	EPA 6020B	429423
180-153194-13	SW-4-1.5	Total Recoverable	Water	EPA 6020B	429423
180-153194-14	SW-4-1.5	Dissolved	Water	EPA 6020B	429423
180-153194-15	SW-5-1'	Total Recoverable	Water	EPA 6020B	429423
180-153194-16	SW-5-1'	Dissolved	Water	EPA 6020B	429423
180-153194-17	SW-5-13'	Total Recoverable	Water	EPA 6020B	429423
180-153194-18	SW-5-13'	Dissolved	Water	EPA 6020B	429423
180-153194-19	SW-6-1'	Total Recoverable	Water	EPA 6020B	429423
180-153194-20	SW-6-1'	Dissolved	Water	EPA 6020B	429423
MB 180-429423/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	429423
LCS 180-429423/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	429423

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Metals

Analysis Batch: 431774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-2	SW-1-1'	Dissolved	Water	EPA 6020B	429423
180-153194-3	SW-1-7'	Total Recoverable	Water	EPA 6020B	429423
180-153194-4	SW-1-7'	Dissolved	Water	EPA 6020B	429423
180-153194-5	SW-2-1'	Total Recoverable	Water	EPA 6020B	429423
180-153194-6	SW-2-1'	Dissolved	Water	EPA 6020B	429423
180-153194-7	SW-2-7'	Total Recoverable	Water	EPA 6020B	429423
180-153194-8	SW-2-7'	Dissolved	Water	EPA 6020B	429423
180-153194-9	SW-3-1'	Total Recoverable	Water	EPA 6020B	429423
180-153194-10	SW-3-1'	Dissolved	Water	EPA 6020B	429423
180-153194-11	SW-3-4'	Total Recoverable	Water	EPA 6020B	429423
MB 180-429423/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	429423
LCS 180-429423/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	429423

Prep Batch: 432098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-1	SW-1-1'	Total Recoverable	Water	3005A	
MB 180-432098/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-432098/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-153194-1 MS	SW-1-1'	Total Recoverable	Water	3005A	
180-153194-1 MSD	SW-1-1'	Total Recoverable	Water	3005A	

Analysis Batch: 432466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-1	SW-1-1'	Total Recoverable	Water	EPA 6020B	432098
MB 180-432098/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	432098
LCS 180-432098/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	432098
180-153194-1 MS	SW-1-1'	Total Recoverable	Water	EPA 6020B	432098
180-153194-1 MSD	SW-1-1'	Total Recoverable	Water	EPA 6020B	432098

Analysis Batch: 432609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-21	SW-6-9.5	Total Recoverable	Water	EPA 6020B	429463
180-153194-22	SW-6-9.5	Dissolved	Water	EPA 6020B	429463
180-153194-23	SW-9-1'	Total Recoverable	Water	EPA 6020B	429463
180-153194-24	SW-9-1'	Dissolved	Water	EPA 6020B	429463
180-153194-25	SW-9-4'	Total Recoverable	Water	EPA 6020B	429463
180-153194-26	SW-9-4'	Dissolved	Water	EPA 6020B	429463
180-153194-27	SW-10-2'	Total Recoverable	Water	EPA 6020B	429463
180-153194-28	SW-10-2'	Dissolved	Water	EPA 6020B	429463
180-153194-29	SW-11-1'	Total Recoverable	Water	EPA 6020B	429463
180-153194-30	SW-11-1'	Dissolved	Water	EPA 6020B	429463
180-153194-31	SW-12-1'	Total Recoverable	Water	EPA 6020B	429463
180-153194-32	SW-12-1'	Dissolved	Water	EPA 6020B	429463
180-153194-33	SW-13-1'	Total Recoverable	Water	EPA 6020B	429463
180-153194-34	SW-13-1'	Dissolved	Water	EPA 6020B	429463
180-153194-35	SW-14-1.5	Total Recoverable	Water	EPA 6020B	429463
180-153194-36	SW-14-1.5	Dissolved	Water	EPA 6020B	429463
180-153194-37	SW-15-1.5	Total Recoverable	Water	EPA 6020B	429463
180-153194-38	SW-15-1.5	Dissolved	Water	EPA 6020B	429463
180-153194-39	SW-16-1.5	Total Recoverable	Water	EPA 6020B	429463
180-153194-40	SW-16-1.5	Dissolved	Water	EPA 6020B	429463

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Metals (Continued)

Analysis Batch: 432609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-41	EB-01	Total Recoverable	Water	EPA 6020B	429462
180-153194-42	SW-17-1'	Total Recoverable	Water	EPA 6020B	429462
180-153194-43	SW-17-1'	Dissolved	Water	EPA 6020B	429462
180-153194-44	FB-01	Total Recoverable	Water	EPA 6020B	429462
180-153194-45	DUP-01	Total Recoverable	Water	EPA 6020B	429462
180-153194-46	DUP-01	Dissolved	Water	EPA 6020B	429462
180-153194-47	DUP-02	Total Recoverable	Water	EPA 6020B	429462
180-153194-48	DUP-02	Dissolved	Water	EPA 6020B	429462
180-153194-49	DUP-03	Total Recoverable	Water	EPA 6020B	429462
180-153194-50	DUP-03	Dissolved	Water	EPA 6020B	429462
MB 180-429462/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	429462
MB 180-429463/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	429463
LCS 180-429462/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	429462
LCS 180-429463/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	429463
180-153194-23 MS	SW-9-1'	Total Recoverable	Water	EPA 6020B	429463
180-153194-23 MSD	SW-9-1'	Total Recoverable	Water	EPA 6020B	429463
180-153194-41 MS	EB-01	Total Recoverable	Water	EPA 6020B	429462
180-153194-41 MSD	EB-01	Total Recoverable	Water	EPA 6020B	429462

Analysis Batch: 432968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-21	SW-6-9.5	Total Recoverable	Water	EPA 6020B	429463
180-153194-22	SW-6-9.5	Dissolved	Water	EPA 6020B	429463
180-153194-23	SW-9-1'	Total Recoverable	Water	EPA 6020B	429463
180-153194-24	SW-9-1'	Dissolved	Water	EPA 6020B	429463
180-153194-25	SW-9-4'	Total Recoverable	Water	EPA 6020B	429463
180-153194-26	SW-9-4'	Dissolved	Water	EPA 6020B	429463
180-153194-27	SW-10-2'	Total Recoverable	Water	EPA 6020B	429463
180-153194-28	SW-10-2'	Dissolved	Water	EPA 6020B	429463
180-153194-29	SW-11-1'	Total Recoverable	Water	EPA 6020B	429463
180-153194-30	SW-11-1'	Dissolved	Water	EPA 6020B	429463
180-153194-31	SW-12-1'	Total Recoverable	Water	EPA 6020B	429463
180-153194-32	SW-12-1'	Dissolved	Water	EPA 6020B	429463
180-153194-33	SW-13-1'	Total Recoverable	Water	EPA 6020B	429463
180-153194-34	SW-13-1'	Dissolved	Water	EPA 6020B	429463
180-153194-35	SW-14-1.5	Total Recoverable	Water	EPA 6020B	429463
180-153194-41	EB-01	Total Recoverable	Water	EPA 6020B	429462
180-153194-42	SW-17-1'	Total Recoverable	Water	EPA 6020B	429462
180-153194-43	SW-17-1'	Dissolved	Water	EPA 6020B	429462
180-153194-44	FB-01	Total Recoverable	Water	EPA 6020B	429462
180-153194-45	DUP-01	Total Recoverable	Water	EPA 6020B	429462
180-153194-46	DUP-01	Dissolved	Water	EPA 6020B	429462
180-153194-47	DUP-02	Total Recoverable	Water	EPA 6020B	429462
180-153194-48	DUP-02	Dissolved	Water	EPA 6020B	429462
180-153194-49	DUP-03	Total Recoverable	Water	EPA 6020B	429462
180-153194-50	DUP-03	Dissolved	Water	EPA 6020B	429462
MB 180-429462/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	429462
MB 180-429463/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	429463
LCS 180-429462/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	429462
LCS 180-429463/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	429463
180-153194-23 MS	SW-9-1'	Total Recoverable	Water	EPA 6020B	429463

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Metals (Continued)

Analysis Batch: 432968 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-23 MSD	SW-9-1'	Total Recoverable	Water	EPA 6020B	429463
180-153194-41 MS	EB-01	Total Recoverable	Water	EPA 6020B	429462
180-153194-41 MSD	EB-01	Total Recoverable	Water	EPA 6020B	429462

Analysis Batch: 433148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-36	SW-14-1.5	Dissolved	Water	EPA 6020B	429463
180-153194-37	SW-15-1.5	Total Recoverable	Water	EPA 6020B	429463
180-153194-38	SW-15-1.5	Dissolved	Water	EPA 6020B	429463
180-153194-39	SW-16-1.5	Total Recoverable	Water	EPA 6020B	429463
180-153194-40	SW-16-1.5	Dissolved	Water	EPA 6020B	429463

General Chemistry

Analysis Batch: 428840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-5	SW-2-1'	Total/NA	Water	SM 2540C	
180-153194-6	SW-2-1'	Dissolved	Water	SM 2540C	
180-153194-7	SW-2-7'	Total/NA	Water	SM 2540C	
180-153194-8	SW-2-7'	Dissolved	Water	SM 2540C	
180-153194-9	SW-3-1'	Total/NA	Water	SM 2540C	
180-153194-10	SW-3-1'	Dissolved	Water	SM 2540C	
180-153194-11	SW-3-4'	Total/NA	Water	SM 2540C	
180-153194-12	SW-3-4'	Dissolved	Water	SM 2540C	
180-153194-13	SW-4-1.5	Total/NA	Water	SM 2540C	
180-153194-14	SW-4-1.5	Dissolved	Water	SM 2540C	
180-153194-15	SW-5-1'	Total/NA	Water	SM 2540C	
180-153194-16	SW-5-1'	Dissolved	Water	SM 2540C	
180-153194-17	SW-5-13'	Total/NA	Water	SM 2540C	
180-153194-29	SW-11-1'	Total/NA	Water	SM 2540C	
180-153194-30	SW-11-1'	Dissolved	Water	SM 2540C	
MB 180-428840/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-428840/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-153194-15 DU	SW-5-1'	Total/NA	Water	SM 2540C	
180-153194-29 DU	SW-11-1'	Total/NA	Water	SM 2540C	

Analysis Batch: 428845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-1	SW-1-1'	Total/NA	Water	SM 2540C	
180-153194-2	SW-1-1'	Dissolved	Water	SM 2540C	
180-153194-3	SW-1-7'	Total/NA	Water	SM 2540C	
180-153194-4	SW-1-7'	Dissolved	Water	SM 2540C	
MB 180-428845/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-428845/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 428853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-18	SW-5-13'	Dissolved	Water	SM 2540C	
180-153194-19	SW-6-1'	Total/NA	Water	SM 2540C	
180-153194-20	SW-6-1'	Dissolved	Water	SM 2540C	
180-153194-21	SW-6-9.5	Total/NA	Water	SM 2540C	

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

General Chemistry (Continued)

Analysis Batch: 428853 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-22	SW-6-9.5	Dissolved	Water	SM 2540C	
180-153194-23	SW-9-1'	Total/NA	Water	SM 2540C	
180-153194-24	SW-9-1'	Dissolved	Water	SM 2540C	
180-153194-25	SW-9-4'	Total/NA	Water	SM 2540C	
180-153194-26	SW-9-4'	Dissolved	Water	SM 2540C	
180-153194-27	SW-10-2'	Total/NA	Water	SM 2540C	
180-153194-28	SW-10-2'	Dissolved	Water	SM 2540C	
180-153194-31	SW-12-1'	Total/NA	Water	SM 2540C	
180-153194-32	SW-12-1'	Dissolved	Water	SM 2540C	
180-153194-33	SW-13-1'	Total/NA	Water	SM 2540C	
MB 180-428853/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-428853/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-153194-19 DU	SW-6-1'	Total/NA	Water	SM 2540C	

Analysis Batch: 429030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-43	SW-17-1'	Dissolved	Water	SM 2540C	
MB 180-429030/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-429030/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 429044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-34	SW-13-1'	Dissolved	Water	SM 2540C	
180-153194-35	SW-14-1.5	Total/NA	Water	SM 2540C	
180-153194-36	SW-14-1.5	Dissolved	Water	SM 2540C	
180-153194-37	SW-15-1.5	Total/NA	Water	SM 2540C	
180-153194-38	SW-15-1.5	Dissolved	Water	SM 2540C	
180-153194-39	SW-16-1.5	Total/NA	Water	SM 2540C	
180-153194-40	SW-16-1.5	Dissolved	Water	SM 2540C	
180-153194-41	EB-01	Total/NA	Water	SM 2540C	
180-153194-42	SW-17-1'	Total/NA	Water	SM 2540C	
180-153194-44	FB-01	Total/NA	Water	SM 2540C	
180-153194-45	DUP-01	Total/NA	Water	SM 2540C	
180-153194-46	DUP-01	Dissolved	Water	SM 2540C	
180-153194-47	DUP-02	Total/NA	Water	SM 2540C	
180-153194-48	DUP-02	Dissolved	Water	SM 2540C	
180-153194-49	DUP-03	Total/NA	Water	SM 2540C	
180-153194-50	DUP-03	Dissolved	Water	SM 2540C	
MB 180-429044/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-429044/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-153194-44 DU	FB-01	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 431333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-1	SW-1-1'	Total/NA	Water	Field Sampling	
180-153194-3	SW-1-7'	Total/NA	Water	Field Sampling	
180-153194-5	SW-2-1'	Total/NA	Water	Field Sampling	
180-153194-7	SW-2-7'	Total/NA	Water	Field Sampling	
180-153194-9	SW-3-1'	Total/NA	Water	Field Sampling	

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-1

Field Service / Mobile Lab (Continued)

Analysis Batch: 431333 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-11	SW-3-4'	Total/NA	Water	Field Sampling	
180-153194-13	SW-4-1.5	Total/NA	Water	Field Sampling	
180-153194-15	SW-5-1'	Total/NA	Water	Field Sampling	
180-153194-17	SW-5-13'	Total/NA	Water	Field Sampling	
180-153194-19	SW-6-1'	Total/NA	Water	Field Sampling	
180-153194-21	SW-6-9.5	Total/NA	Water	Field Sampling	
180-153194-23	SW-9-1'	Total/NA	Water	Field Sampling	
180-153194-25	SW-9-4'	Total/NA	Water	Field Sampling	
180-153194-27	SW-10-2'	Total/NA	Water	Field Sampling	
180-153194-29	SW-11-1'	Total/NA	Water	Field Sampling	
180-153194-31	SW-12-1'	Total/NA	Water	Field Sampling	
180-153194-33	SW-13-1'	Total/NA	Water	Field Sampling	
180-153194-35	SW-14-1.5	Total/NA	Water	Field Sampling	
180-153194-37	SW-15-1.5	Total/NA	Water	Field Sampling	
180-153194-39	SW-16-1.5	Total/NA	Water	Field Sampling	
180-153194-42	SW-17-1'	Total/NA	Water	Field Sampling	
180-153194-45	DUP-01	Total/NA	Water	Field Sampling	
180-153194-47	DUP-02	Total/NA	Water	Field Sampling	
180-153194-49	DUP-03	Total/NA	Water	Field Sampling	



180-153194 Chain of Custody

Chain of Custody Record

Client Information Client Contact: <i>Shelli Brown</i> SCS Contacts: <i>Shelli Brown</i> Company: SCS		Lab PIM: Brown, Shali E-Mail: shelli.brown@eurofinset.com										
Address: 3635 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email: <i>Shelli Brown</i> Project Name: Plant Watson Site: Ash Pond (Surface Water)		Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 18020186 SOW#:										
Sample Identification		Analysis Requested										
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, G=gravel, B=bitumen, A=air)	Field Filtered Sample (Yes or No)	300 28Day Chloride Fluoride Sulfate	6020B/740 6020B/740 (AsPb/II/AsPb/IV+9) + Mercury	9315 Ra226 Radium 226	9320 Ra228 Radium 228	Combined RAD	Total Number of Containers	Special Instructions/Note:
SW-1 -1'	3-6-23	1739	G	SW	X	X	X	X	X	X	X	Depth = 1 ft
SW-1 -1'	3-6-23	1756	G	SW	X	X	X	X	X	X	X	Depth = 1 ft
SW-1 -7'	3-6-23	1813	G	SW	X	X	X	X	X	X	X	Depth = 7 ft
SW-1 -7'	3-6-23	1825	G	SW	X	X	X	X	X	X	X	Depth = 7 ft
SW-2 -1'	3-6-23	1650	G	SW	X	X	X	X	X	X	X	Depth = 1 ft
SW-2 -1'	3-6-23	1703	G	SW	X	X	X	X	X	X	X	Depth = 1 ft
SW-2 -7'	3-6-23	1714	G	SW	X	X	X	X	X	X	X	Depth = 7 ft
SW-2 -7'	3-6-23	1723	G	SW	X	X	X	X	X	X	X	Depth = 7 ft
SW-3 -1'	3-6-23	0912	G	SW	X	X	X	X	X	X	X	Depth = 1 ft
SW-3 -1'	3-6-23	0925	G	SW	X	X	X	X	X	X	X	Depth = 1 ft
SW-3 -4'	3-6-23	0939	G	SW	X	X	X	X	X	X	X	Depth = 4 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 Deliverable Requested I, II, III, IV, Other (specify)												
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: <i>Shelli Brown</i> Date: 3-7-23 Time: 1604 Relinquished by: <i>Shelli Brown</i> Date: 3-7-23 Time: 1604 Relinquished by: <i>Shelli Brown</i> Date: 3-7-23 Time: 1604 Relinquished by: <i>Shelli Brown</i> Date: 3-7-23 Time: 1604 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 Client Contact: <u>Shaili Brown, Shaili</u> SCS Contacts: <u>shaili.brown@eurofinset.com</u> Company: <u>SCS</u>		Lab PII: <u>Brown, Shaili</u> E-Mail: <u>shaili.brown@eurofinset.com</u>		Carrier Tracking No(s): Page: <u>Page 2 of 6</u> Job #:	
Address: <u>3535 Colonnade Pkwy Bin S 530 EC</u> City: <u>Birmingham</u> State, Zip: <u>AL, 35243</u> Phone: <u>205-992-6283</u> Email:		Due Date Requested: TAT Requested (days):		Analysis Requested 9315 Ra226 Radium 226 9320 Ra228 Radium 228 Combined RAD	
Project #: <u>18020186</u> Plant Name: <u>Plant Watson</u> Site: <u>Ash Pond (Surface Water)</u>		PO #: <u>850-326-0192</u> WO #:		Total Number of Containers:	
SCS Contacts:		Project #:		Special Instructions/Note: DEPTH GOES HERE	
SOW#:		Matrix (Water, Sediment, Other):		Special Instructions/Note: DEPTH GOES HERE	
Sample Identification SW-3 - 4' SW-4 - 1.5' SW-4 - 1.5' SW-5 - 1' SW-5 - 1' SW-5 - 13' SW-5 - 13' SW-6 - 1' SW-6 - 1'		Sample Date 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23		Sample Time 0950 1137 1145 0803 0819 0835 0853 0921 0938	
Sample Type (C=Comp, G=grab) G G G G G G G G		Preservation Code SW SW SW SW SW SW SW SW		Depth = <u>4 ft</u> Depth = <u>1.5 ft</u> Depth = <u>1.5 ft</u> Depth = <u>1 ft</u> Depth = <u>1 ft</u> Depth = <u>13 ft</u> Depth = <u>13 ft</u> Depth = <u>1 ft</u> Depth = <u>1 ft</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		Deliverable Requested: I, II, III, IV, Other (specify)		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: <u>[Signature]</u>		Date:		Method of Shipment:	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>3-7-23 1604</u>		Date/Time: <u>3-8-23 0928</u>	
Relinquished by: <u>[Signature]</u>		Date/Time:		Date/Time:	
Relinquished by:		Date/Time:		Date/Time:	
Custody Seals Intact: <u>Yes</u>		Custody Seal No.:		Company: <u>CRANE</u>	

Client Information Client Contact: SCS Contacts Company: SCS Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email: [redacted] Project Name: Plant Watson Site: Ash Pond (Surface Water)		Lab PM: Brown, Shali E-Mail: shali.brown@eurofins.com Phone: 850-336-0192 Carrier Tracking No(s): Page: 3 of 6 Job #:									
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 18020186 SOW#:		Analysis Requested: 9315 Ra226 Radium 226 9320 Ra228 Radium 228 Combined RAD 60208/470 Euron 22 (Appl/Api/9) + Mercury 300_28Day Chloride Fluoride Sulfate Field Filtered Sample (Yes or No)									
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ios 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)		Total Number of Containers: Special Instructions/Note: DEPTH GOES HERE Depth = 9.5 ft Depth = 9.5 ft Depth = 1 ft Depth = 1 ft Depth = 4 ft Depth = 4 ft Depth = 2 ft Depth = 2 ft Depth = Depth = Depth = 1 ft									
Sample Identification SW-6 - 9.5 SW-6 - 9.5 SW-9 - 1' SW-9 - 1' SW-9 - 4' SW-9 - 4' SW-10 - 2' SW-10 - 2' SW-10 - ROH 3-7-23 SW-10 - ROH 3-7-23 SW-11 - ROH 3-7-23 - 1'	Sample Date 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23	Sample Time 0953 1010 1306 1322 1331 1345 1231 1248 1208	Sample Type (C=Comp, G=grab) G G G G G G G G G	Matrix (W=water, S=solid, O=water/oli, B=BI-Tissue, A=AUF) SW SW SW SW SW SW SW SW SW SW	Field Filtered Sample (Yes or No) X X X X X X X X X X	300_28Day Chloride Fluoride Sulfate X X X X X X X X X X	60208/470 Euron 22 (Appl/Api/9) + Mercury X X X X X X X X X X	9315 Ra226 Radium 226 X X X X X X X X X X	9320 Ra228 Radium 228 X X X X X X X X X X	Combined RAD X X X X X X X X X X	Special 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:
Empty Kit Relinquished by: [Signature]		Date: 3-7-23									
Relinquished by: [Signature]		Date: 3-7-23									
Relinquished by: [Signature]		Date: 3-7-23									
Relinquished by: [Signature]		Date: 3-7-23									
Custody Seals Intact: A Yes Δ No		Custody Seal No.:									

Client Information
 Client Contact: *Ryk K. Goyens* / *1000*
 SCS Contacts: *Hayden* / *VARIS*
 Company: *SCS*
 Phone: *850-336-0192*
 E-Mail: *shali.brown@eurofinset.com*

Address: 3535 Colonnade Pkwy Bin S 530 EC
City: Birmingham
State, Zip: AL, 35243
Phone: 205-992-6283
Email: SCS Contacts
Project Name: 18020186
Plant: Watson
Site: Ash Pond (Surface Water)

Due Date Requested: *3-6-23*
TAT Requested (days):
PO #:
WO #:
Project #: 18020186
SSOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT=Tissue, Ash)	Field Filtered Sample (Yes or No)	300_28Day Chloride Fluoride Sulfate	6020B/170 Custom 28 (ApIII/ApIV+) + Mercury	9315_Ra226 Radium 226	9320_Ra228 Radium 228	Combined RAD	Total Number of Containers	Special Instructions/Note:
SW-11 -1	3-6-23	1151	G	SW	X	X	X	X	X	X	X	DEPTH GOES HERE Special Instructions/Note: Depth = 1 ft
SW-11 -1	3-6-23	1042	G	SW	X	X	X	X	X	X	X	DEPTH GOES HERE Special Instructions/Note: Depth = 1 ft
SW-12 -1	3-6-23	1112	G	SW	X	X	X	X	X	X	X	DEPTH GOES HERE Special Instructions/Note: Depth = 1 ft
SW-12 -1	3-6-23	1221	G	SW	X	X	X	X	X	X	X	DEPTH GOES HERE Special Instructions/Note: Depth = 1 ft
SW-13 -1	3-6-23	1239	G	SW	X	X	X	X	X	X	X	DEPTH GOES HERE Special Instructions/Note: Depth = 1 ft
SW-13 -1	3-6-23			SW	X	X	X	X	X	X	X	DEPTH GOES HERE Special Instructions/Note: Depth = 1 ft
SW-13 -1	3-6-23			SW	X	X	X	X	X	X	X	DEPTH GOES HERE Special Instructions/Note: Depth = 1 ft
SW-13 -1	3-6-23			SW	X	X	X	X	X	X	X	DEPTH GOES HERE Special Instructions/Note: Depth = 1 ft
SW-13 -1	3-6-23			SW	X	X	X	X	X	X	X	DEPTH GOES HERE Special Instructions/Note: Depth = 1 ft

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested I, II, III, IV, Other (specify) _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: _____

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: *mpj* Date/Time: *3-7-23 1604* Company: *ROA*

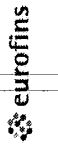
Relinquished by: *Phil O'Key* Date/Time: *3-8-23 0928* Company: *SHANNE*

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No **Custody Seal No.:** _____

Special Instructions/QC Requirements: _____

Chain of Custody Record



Client Information SCS Contacts Company: SCS Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email: SCS Contacts Project Name: Plant Watson Plant: Watson Site: Ash Pond (Surface Water)		Lab PM: Brown, Shali E-Mail: shali.brown@eurofinset.com Carrier Tracking No(s): Page: Page 5 of 6 Job #:	
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 18020186 SSOW#:		Analysis Requested 300_28Day Chloride Fluoride Sulfate 6020B/7470-Custom (AppIII/AppIV+9) + Mercury 9315_Ra226 Radium 226 9320_Ra226 Radium 228 Combined RAD	
Sample Identification SW-14 - 1.5 SW-14 - 1.5 ADH 3-7-23 ADH 3-7-23 SW-15 - 1.5 SW-15 - 1.5 ADH 3-7-23 ADH 3-7-23 SW-16 - 1.5 SW-16 - 1.5 ADH 3-7-23		Matrix (W=water, S=solid, O=water/oil, B=Trace, Asp) SW SW SW SW SW SW SW SW SW SW SW SW SW	
Sample Date 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23		Sample Time 1314 G 1329 G 1350 G 1410 G 1448 G 1508 G	
Field Filtered Sample (Yes or No) X X X X X X X X X X X X X		Total Number of Containers X X X X X X X X X X X X X	
Special Instructions/Note: DEPTH GOES HERE Depth = 1.5 ft Depth = 1.5 ft Depth = Depth = Depth = 1.5 ft Depth = 1.5 ft Depth = Depth = Depth = 1.5 ft Depth = 1.5 ft Depth = Depth =		Special Instructions/Note: 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:	
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		Deliverable Requested: I, II, III, IV, Other (specify)	
Empty Kit Relinquished by: Relinquished by: <i>Angela</i> Relinquished by: Relinquished by:		Date/Time Date/Time: 3-7-23 1604 Date/Time: Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:	



Chain of Custody Record

Client Information Client Contact: <u>Hegeadorfer / Karcis</u> SCS Contacts: <u>850-336-0192</u> Company:		Lab PM: <u>Brown, Shail</u> E-Mail: <u>shail.brown@eurofinset.com</u>		Carrier Tracking No(s): Job #: <u>Page 6 of 6</u>		COC No:	
Address: <u>3535 Colonnade Pkwy Bln S 530 EC</u> City: <u>Birmingham</u> State, Zip: <u>AL, 35243</u> Phone: <u>205-992-6283</u> Email:		Due Date Requested: TAT Requested (days):		Analysis Requested 9315 Ra226 Radium 226 9320 Ra228 Radium 228 Combined RAD		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:	
Project # <u>18020186</u> Plant Watson Site <u>Ash Pond (Surface Water)</u>		Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air) Preservation Code:		Total Number of Containers:		Special Instructions/Note: DEPTH GOES HERE DEPTH GOES HERE	
Sample Identification <u>SW-17 -1'</u> <u>SW-17 -1'</u> <u>SW-17 -1'</u> <u>DWP-01</u> <u>DWP-01</u> <u>DWP-02</u> <u>DWP-03</u> <u>DWP-03</u>		Sample Date <u>3-6-23</u> <u>3-6-23</u> <u>3-6-23</u> <u>3-6-23</u> <u>3-6-23</u> <u>3-6-23</u> <u>3-6-23</u>		Sample Time <u>0816</u> <u>1035</u> <u>1057</u> <u>0813</u> <u>1121</u> <u>1139</u> <u>1639</u> <u>1656</u> <u>0942</u> <u>1012</u>		Sample Type (C=comp, G=grab) Preservation Code: SW SW SW SW SW G G G G G G	
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		Deliverable Requested: I, II, III, IV, Other (specify)		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:	
Relinquished by: <u>Amj My</u> Relinquished by: Relinquished by:		Date: <u>3-7-23</u> Date: <u>1604</u> Date:		Method of Shipment:		Company: <u>EUROFIN</u> Company: Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Ver: 01/16/2019	





180-153194 Chain of Custody

Chain of Custody Record

Client Information
 Client Contact: Shelli Brown
 SCS Contacts: Shelli Brown
 Company: SCS

Address
 3535 Colonnade Pkwy Bin S 530 EC
 Birmingham
 State, Zip
 AL, 35243

PO #
 205-992-6283

WO #
 18020186

Project #
 18020186

Plant Name
 Plant Watson

Site
 Ash Pond (Surface Water)

Due Date Requested:
 TAT Requested (days):

Sample Information
 Sample Date: 3-6-23 Sample Time: 1739 Sample Type: G Matrix: SW

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	Field Filtered Sample (Yes or No)	300 28Day Chloride Fluoride Sulfate	6020B/740-Cadmium As Pb III/AsPIV+9 + Mercury	9315_Ra226 Radium 226	9320_Ra228 Radium 228	Combined RAD	Total Number of Containers	Special Instructions/Note:
SW-1 -1'	3-6-23	1739	G	SW	X	X	X	X	X	X	X	Depth = 1 ft
SW-1 -1'	3-6-23	1756	G	SW	X	X	X	X	X	X	X	Depth = 1 ft
SW-1 -7'	3-6-23	1813	G	SW	X	X	X	X	X	X	X	Depth = 7 ft
SW-1 -7'	3-6-23	1825	G	SW	X	X	X	X	X	X	X	Depth = 7 ft
SW-2 -1'	3-6-23	1650	G	SW	X	X	X	X	X	X	X	Depth = 1 ft
SW-2 -1'	3-6-23	1703	G	SW	X	X	X	X	X	X	X	Depth = 1 ft
SW-2 -7'	3-6-23	1714	G	SW	X	X	X	X	X	X	X	Depth = 7 ft
SW-2 -7'	3-6-23	1723	G	SW	X	X	X	X	X	X	X	Depth = 7 ft
SW-3 -1'	3-6-23	0912	G	SW	X	X	X	X	X	X	X	Depth = 1 ft
SW-3 -1'	3-6-23	0925	G	SW	X	X	X	X	X	X	X	Depth = 1 ft
SW-3 -4'	3-6-23	0939	G	SW	X	X	X	X	X	X	X	Depth = 4 ft

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements
 Return To Client Disposal By Lab Archive For _____ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by
 Relinquished by: Shelli Brown Date: 3-7-23 Time: 1604
 Relinquished by: Shelli Brown Date: 3-7-23 Time: 1604
 Relinquished by: Shelli Brown Date: 3-7-23 Time: 1604

Method of Shipment:
 Date/Time: 3-8-23 1800 Company: ERTNE

Custody Seals Intact:
 Δ Yes Δ No (Custody Seal No. : _____)



Chain of Custody Record

Client Information Client Contact: <i>Shelli Brown</i> SCS Contacts: <i>Shelli Brown</i> Company: SCS		Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email: <i>shelli.brown@eurofinset.com</i> Project Name: Plant Watson Site: Ash Pond (Surface Water)		Sampler: <i>Shelli Brown / TSP</i> Phone: <i>850-326-0192</i> Lab PII: Brown, Shelli E-Mail: <i>shelli.brown@eurofinset.com</i>		Carrier Tracking No(s): COC No: Page: <i>Page 2 of 6</i> Job #:			
Analysis Requested 300 28Day Chloride Fluoride Sulfate 6020B17470 <i>Custom 28 (Appl/Imp/+) + Mercury</i> 9315 Ra226 Radium 226 9320 Ra228 Radium 228 Combined RAD		Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 18020186 SOW#:		Total Number of Containers:		Special Instructions/Note: DEPTH GOES HERE			
Sample Identification SW-3 - 4' SW-4 - 1.5' SW-4 - 1.5' SW-4 RSH 3-7-23 SW-4 RSH 3-7-23 SW-5 - 1' SW-5 - 1' SW-5 - 13' SW-5 - 13' SW-6 - 1' SW-6 - 1'		Sample Date 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23		Sample Time 0950 1137 1145 0803 0819 0835 0853 0921 0938		Matrix (W=Water, S=Sediment, O=Other) SW SW SW SW SW SW SW SW SW SW		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 - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Z - other (specify)	
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		Deliverable Requested: I, II, III, IV, Other (specify)		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:			
Relinquished by: <i>Shelli Brown</i>		Relinquished by: <i>Shelli Brown</i>		Relinquished by: <i>Shelli Brown</i>		Relinquished by: <i>Shelli Brown</i>			
Date/Time: 3-7-23 1604		Date/Time: 3-7-23 1604		Date/Time: 3-7-23 1604		Date/Time: 3-7-23 1604			
Company: SCS		Company: SCS		Company: SCS		Company: SCS			
Company: SCS		Company: SCS		Company: SCS		Company: SCS			

Chain of Custody Record

Client Information Client Contact: SCS Contacts Company: SCS Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email: Project #: 18020186 Plant Name: Plant Watson Site: Ash Pond (Surface Water)		Lab PM: Brown, Shali E-Mail: shali.brown@euofinset.com Phone: 850-336-0192 Fax: 850-336-0192 Sampler: <i>Ryan Anderson / TOSIS</i> <i>Hylander / Vareis</i>		Carrier Tracking No(s): COC No: Page: <i>3 of 6</i> Job #:	
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: SOW #:		Analysis Requested 6020817470 <i>Euofin 22 (Appl/Api/9) + Mercury</i> 300_28Day Chloride Fluoride Sulfate 9315_Ra226 Radium 226 9320_Ra228 Radium 228 Combined RAD			
Sample Identification SW-6 - 9.5 SW-6 - 9.5 SW-9 - 1' SW-9 - 1' SW-9 - 4' SW-9 - 4' SW-10 - 2' SW-10 - 2' SW-10 - ROH 3-7-23 SW-10 - ROH 3-7-23 SW-11 - <i>X</i> ROH 3-7-23 - 1'		Field Filtered Sample (Yes or No) X X X X X X X X X X X X		Total Number of Containers X X X X X X X X X X X X X	
Sample Date 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23		Sample Time 0953 1010 1306 1322 1331 1345 1231 1248 1208		Matrix (W=Water, S=Soil, O=Organic, G=Grab, BT=Tissue, A=Air) SW SW SW SW SW SW SW SW SW SW SW SW SW	
Sample Type (C=Comp, G=grab) G G G G G G G G G G G G		Preservation Code SW SW SW SW SW SW SW SW SW SW SW SW SW		Depth 9.5 ft 9.5 ft 1 ft 1 ft 4 ft 4 ft 2 ft 2 ft = = = = =	
Special Instructions/Note: DEPTH GOES HERE		Special 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: <i>mpj</i> Relinquished by: <i>mpj</i> Relinquished by: Relinquished by:		Date 3-7-23 3-7-23 3-7-23 3-7-23 3-7-23 3-7-23 3-7-23 3-7-23 3-7-23 3-7-23		Method of Shipment Date/Time 3-8-23 9:28 Date/Time Date/Time Date/Time	
Custody Seals Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>		Company ROH EW Company Company Company		Company CRANE Company Company	
Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Chain of Custody Record

Client Information
 Client Contact: *Ryk K. Hajdenstorf* / *1000*
 SCS Contacts: *Hajdenstorf VORIS*
 Company: SCS
 Address: 3535 Colonnade Pkwy Bin S 530 EC
 City: Birmingham
 State, Zip: AL, 35243
 Phone: 205-992-6283
 Email: SCS Contacts
 Project Name: 18020186
 Plant: Watson
 Site: Ash Pond (Surface Water)

Sampler: *Ryk K. Hajdenstorf*
 Lab PM: Brown, Shali
 E-Mail: shali.brown@eurofinset.com
 Phone: *850-336-0192*

COC No:
 Page: *Page 4 of 6*
 Job #:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT=Tissue, Ash)	Analysis Requested		Special Instructions/Note:
					300_28Day Chloride Fluoride Sulfate	6020B/740 Custom (APM/III/APPV+9) + Mercury	
SW-11 -1	3-6-23	1151	G	SW	X	X	Depth = 1 ft
SW-11 RDH 3-7-23				SW	X	X	
SW-11 RDH 3-7-23				SW	X	X	
SW-12 -1	3-6-23	1042	G	SW	X	X	Depth = 1 ft
SW-12 -1				SW	X	X	Depth = 1 ft
SW-12 RDH 3-7-23				SW	X	X	
SW-13 -1	3-6-23	1221	G	SW	X	X	Depth = 1 ft
SW-13 -1				SW	X	X	Depth = 1 ft
SW-13 RDH 3-7-23				SW	X	X	
SW-13 RDH 3-7-23				SW	X	X	

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify) _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

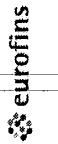
Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: *mpj* Date/Time: *3-7-23 1604* Company: *ROA EWR*
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Δ No Δ No
 Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: _____

Chain of Custody Record



Client Information SCS Contacts Company: SCS Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email: SCS Contacts Project Name: Plant Watson Plant: Watson Site: Ash Pond (Surface Water)		Lab PM: Brown, Shali E-Mail: shali.brown@eurofinset.com Carrier Tracking No(s): Page: Page 5 of 6 Job #:	
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 18020186 SSOW#:		Analysis Requested 300_28Day Chloride Fluoride Sulfate 6020B/7470-Custom (AppIII/AppIV+9) + Mercury 9315_Ra226 Radium 226 9320_Ra226 Radium 228 Combined RAD	
Sample Identification SW-14 - 1.5 SW-14 - 1.5 ADH 3-7-23 ADH 3-7-23 SW-15 - 1.5 SW-15 - 1.5 ADH 3-7-23 ADH 3-7-23 SW-16 - 1.5 SW-16 ADH 3-7-23		Matrix (W=water, S=solid, O=water/oil, B=Trace, Asp) SW SW SW SW SW SW SW SW SW SW SW	
Sample Date 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23		Sample Time 1314 G 1329 G 1350 G 1410 G 1448 G 1508 G	
Field Filtered Sample (Yes or No) X X X X X X X X X X X		Total Number of Containers X X X X X X X X X X X	
Sample Depth 1.5 ft 1.5 ft 1.5 ft 1.5 ft 1.5 ft 1.5 ft 1.5 ft 1.5 ft		Special Instructions/Note: DEPTH GOES HERE	
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)			
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			
Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by:			
Relinquished by: <i>Angela</i> Date/Time: 3-7-23 1604 Company: ADH Relinquished by: <i>Phil Olney</i> Date/Time: 3-8-23 0928 Company: SHANUE Relinquished by: Date/Time: Company:		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:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:			



Client Information Client Contact: <i>Hegeadorfer / Karcis</i> SCS Contacts Company Phone: <i>850-336-0192</i>		Lab PM Brown, Shail E-Mail: shail.brown@eurofinset.com		Carrier Tracking No(s)		COC No: <i>Page 6 of 6</i>		Job #	
Due Date Requested:		Analysis Requested		Total Number of Containers		Preservation Codes:		DEPTH GOES HERE	
TAT Requested (days):		300, 28Day Chloride Fluoride Sulfate 6020B/1470 Custom 28 (A) PpIII/ApI(V+9) + Mercury FDN 3-2-23		9315 Ra226 Radium 226 9320 Ra228 Radium 228 Combined RAD		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 Y - EDA Z - other (specify)		Special Instructions/Note: Total only	
PO #		Field Filtered Sample (Yes or No)		X		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:		Depth = 1ft	
WO #		Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air) SW		X		J - DI Water K - EDTA L - EDA Other:		Depth = 1ft	
Project #		Sample Type (C=comp, G=grab)		X		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 Y - EDA Z - other (specify)		Depth = 1ft	
Plant Watson		Sample Time		X		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 Y - EDA Z - other (specify)		Depth = 1ft	
Site		Sample Date		X		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 Y - EDA Z - other (specify)		Depth = 1ft	
Ash Pond (Surface Water)		3-6-23		X		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 Y - EDA Z - other (specify)		Depth = 1ft	
EB-01		0816		X		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 Y - EDA Z - other (specify)		Depth = 1ft	
SW-17 - 1'		3-6-23		X		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 Y - EDA Z - other (specify)		Depth = 1ft	
SW-17 - 1'		1039		X		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 Y - EDA Z - other (specify)		Depth = 1ft	
SW-17 - 1'		1057		X		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 Y - EDA Z - other (specify)		Depth = 1ft	
SW-17 - 1'		0813		X		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 Y - EDA Z - other (specify)		Depth = 1ft	
DWP-01		3-6-23		X		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 Y - EDA Z - other (specify)		Depth = 1ft	
DWP-01		1121		X		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 Y - EDA Z - other (specify)		Depth = 1ft	
DWP-02		3-6-23		X		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 Y - EDA Z - other (specify)		Depth = 1ft	
DWP-02		1139		X		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 Y - EDA Z - other (specify)		Depth = 1ft	
DWP-03		3-6-23		X		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 Y - EDA Z - other (specify)		Depth = 1ft	
DWP-03		1639		X		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 Y - EDA Z - other (specify)		Depth = 1ft	
DWP-03		1656		X		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 Y - EDA Z - other (specify)		Depth = 1ft	
DWP-03		3-6-23		X		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 Y - EDA Z - other (specify)		Depth = 1ft	
DWP-03		0942		X		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 Y - EDA Z - other (specify)		Depth = 1ft	
DWP-03		3-6-23		X		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 Y - EDA Z - other (specify)		Depth = 1ft	
DWP-03		1012		X		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 Y - EDA Z - other (specify)		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		Special Instructions/QC Requirements:		Method of Shipment:		Company: <i>EUROFIN</i>	
Deliverable Requested: I, II, III, IV, Other (specify)		Date		Date/Time		Date/Time		Date/Time	
Empty Kit Relinquished by:		3-7-23		1604		3-7-23		5-8-23 9:28	
Relinquished by: <i>Amj My</i>		Company: <i>ASH ENV</i>		Company: <i>ASH ENV</i>		Company: <i>ASH ENV</i>		Company: <i>ASH ENV</i>	
Relinquished by:		Date/Time		Date/Time		Date/Time		Date/Time	
Relinquished by:		Date/Time		Date/Time		Date/Time		Date/Time	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Ver: 01/16/2019			



Client Information Client Contact: <u>Andrew / Nureis</u> Phone: <u>850-336-0192</u> Company: SCS		Lab PM: Brown, Shali E-Mail: shali.brown@eurofinset.com										
Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email: SCS Contacts Project Name: Plant Watson Site: Ash Pond (Surface Water)												
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 18020186 SSO#W#:		Analysis Requested 9315_Ra226 Radium 226 9320_Ra228 Radium 228 Combined RAD 6020B/470-Chloride Fluoride Sulfate 300_28Day Chloride Fluoride Sulfate 6020B/470-Chloride Fluoride Sulfate + Mercury (Cell 3-23)										
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, Asst)	Field Filtered Sample (Yes or No)	300_28Day Chloride Fluoride Sulfate	6020B/470-Chloride Fluoride Sulfate + Mercury	9315_Ra226 Radium 226	9320_Ra228 Radium 228	Combined RAD	Total Number of Containers	Special Instructions/Note:
SW-1 - 1'	3-6-23	1739	G	SW	X	X	X	X	X	X	1	DEPTH GOES HERE Depth = 1 ft
SW-1 - 1'	3-6-23	1756	G	SW	X	X	X	X	X	X	1	DEPTH GOES HERE Depth = 1 ft
SW-1 - 7'	3-6-23	1813	G	SW	X	X	X	X	X	X	7	DEPTH GOES HERE Depth = 7 ft
SW-1 - 7'	3-6-23	1825	G	SW	X	X	X	X	X	X	7	DEPTH GOES HERE Depth = 7 ft
SW-2 - 1'	3-6-23	1650	G	SW	X	X	X	X	X	X	1	DEPTH GOES HERE Depth = 1 ft
SW-2 - 1'	3-6-23	1703	G	SW	X	X	X	X	X	X	1	DEPTH GOES HERE Depth = 1 ft
SW-2 - 7'	3-6-23	1714	G	SW	X	X	X	X	X	X	7	DEPTH GOES HERE Depth = 7 ft
SW-2 - 7'	3-6-23	1723	G	SW	X	X	X	X	X	X	7	DEPTH GOES HERE Depth = 7 ft
SW-3 - 1'	3-6-23	0912	G	SW	X	X	X	X	X	X	1	DEPTH GOES HERE Depth = 1 ft
SW-3 - 1'	3-6-23	0925	G	SW	X	X	X	X	X	X	1	DEPTH GOES HERE Depth = 1 ft
SW-3 - 4'	3-6-23	0939	G	SW	X	X	X	X	X	X	4	DEPTH GOES HERE Depth = 4 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 Deliverable Requested I, II, III, IV, Other (specify)				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: <u>Andrew</u> Relinquished by: <u>Andrew</u> Relinquished by: <u>Andrew</u> Relinquished by:		Date: 3-7-23 1604 Date: 3-7-23 1604 Date:		Method of Shipment: <u>air</u> Date/Time: 3-8-23 1800 Date/Time:		Company: <u>ERTANE</u> Company:						
Custody Seals Intact: <u>Yes</u> <input type="checkbox"/> <u>No</u> <input type="checkbox"/> Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:								



Chain of Custody Record

Client Information
 Client Contact: Henry Adams / TONS
 SCS Contacts: Henry Adams / TONS
 Company: SCS
 Address: 3535 Colonnade Pkwy Bin S 530 EC
 City: Birmingham
 State/Zip: AL, 35243
 Phone: 205-992-6283
 Email: SCS Contacts
 Project Name: Plant Watson
 Site: Ash Pond (Surface Water)

Due Date Requested: _____
TAT Requested (days): _____

PO #: _____
WO #: _____
Project #: 18020186
SSOW#: _____

Sampler: Henry Adams / TONS
Lab P.M.: Brown, Shali
Phone: 850-326-0192
E-Mail: shali.brown@eurofinset.com

Carrier Tracking No(s): _____
COC/No: _____
Page: Page 2 of 6
Job #: _____

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, B=bottom, A=air)	Field Filtered Sample (Yes or No)	300 28Day Chloride Fluoride Sulfate	6020B/7470 Copper (as AP/II/AP/IV+9) + Mercury	9315_Ra226 Radium 226	9320_Ra228 Radium 228	Combined RAD	Total Number of Containers
SW-3 - 4'	3-6-23	0950	G	SW	X	X	X	X	X	X	X
SW-4 - 1.5'	3-6-23	1137	G	SW	X	X	X	X	X	X	X
SW-4 - 1.5'	3-6-23	1145	G	SW	X	X	X	X	X	X	X
SW-5 - 1'											
SW-5 - 1'											
SW-5 - 13'	3-6-23	0803	G	SW	X	X	X	X	X	X	X
SW-5 - 13'	3-6-23	0819	G	SW	X	X	X	X	X	X	X
SW-5 - 13'	3-6-23	0835	G	SW	X	X	X	X	X	X	X
SW-6 - 1'	3-6-23	0853	G	SW	X	X	X	X	X	X	X
SW-6 - 1'	3-6-23	0921	G	SW	X	X	X	X	X	X	X
SW-6 - 1'	3-6-23	0938	G	SW	X	X	X	X	X	X	X

Special Instructions/Note:
 Depth = 4 ft
 Depth = 1.5 ft
 Depth = 1.5 ft
 Depth = 1 ft
 Depth = 1 ft
 Depth = 13 ft
 Depth = 13 ft
 Depth = 1 ft
 Depth = 1 ft

DEPTH GOES HERE

Special Instructions/Note:
 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
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify) _____

Empty Kit Relinquished by: _____
Relinquished by: my HA
Relinquished by: _____
Relinquished by: _____

Date: _____
Date/Time: 3-7-23 1604
Date/Time: _____
Date/Time: _____

Received by: My HA
Received by: _____
Received by: _____

Company: RAH ENV
Company: _____
Company: _____

Date/Time: 3-8-23 0928
Date/Time: _____
Date/Time: _____

Company: CRANE
Company: _____
Company: _____

Method of Shipment: _____
Special Instructions/QC Requirements: _____

Custody Seal No.: _____
 Δ Yes Δ No



Chain of Custody Record

Sampler: *Atk + Luma / 1055*
 Client Contact: *Mylander / Voreis*
 SCS Contacts: *850-336-0192*
 Company: SCS

Lab PII: Brown, Shali
 E-Mail: shali.brown@eurofinset.com

COC No: *Page 3 of 6*
 Job #: *Page 3 of 6*

Analysis Requested

Due Date Requested:
 TAT Requested (days):
 PO #:
 WO #:
 Project #:
 SCS Contacts: 18020186
 Plant: Watson
 Site: Ash Pond (Surface Water)

300 28Day Chloride Fluoride Sulfate
 6020B/7470 Gases (AP/PP/AP/PIV+9) + Mercury
 9315 Ra226 Radium 226
 9320 Ra228 Radium 228
 Combined RAD

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Soil, O=Other)	Field Filtered Sample (Yes or No)	300 28Day Chloride Fluoride Sulfate	6020B/7470 Gases (AP/PP/AP/PIV+9) + Mercury	9315 Ra226 Radium 226	9320 Ra228 Radium 228	Combined RAD	Total Number of Containers	DEPTH GOES HERE	Special Instructions/Note:
SW-6-9.5	3-6-23	0953	G	SW	X	X	X	X	X	X	X	9.5 ft	
SW-6-9.5	3-6-23	1010	G	SW	X	X	X	X	X	X	X	9.5 ft	
SW-9-1'	3-6-23	1306	G	SW	X	X	X	X	X	X	X	1 ft	
SW-9-1'	3-6-23	1322	G	SW	X	X	X	X	X	X	X	1 ft	
SW-9-4'	3-6-23	1331	G	SW	X	X	X	X	X	X	X	4 ft	
SW-9-4'	3-6-23	1345	G	SW	X	X	X	X	X	X	X	4 ft	
SW-10-2'	3-6-23	1231	G	SW	X	X	X	X	X	X	X	2 ft	
SW-10-2'	3-6-23	1248	G	SW	X	X	X	X	X	X	X	2 ft	
SW-10-RDN 3-2-23				SW	X	X	X	X	X	X	X		
SW-10-RDN 3-7-23				SW	X	X	X	X	X	X	X		
SW-11-2' RDN 3-2-23 -1'	3-6-23	1208	G	SW	X	X	X	X	X	X	X	1 ft	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by:
 Relinquished by: *myk*
 Relinquished by:
 Relinquished by:

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:

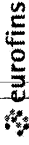
Method of Shipment:
 Date/Time: *3-8-23 9:28*
 Company: *CRANE*

Received by: *Shali Brown*
 Date/Time:
 Company:

Received by:
 Date/Time:
 Company:

Cooler Temperature(s) °C and Other Remarks:
 Custody Seal No.:
 Δ Yes Δ No

Chain of Custody Record



Client Information		Sampler		Lab PM		Carrier Tracking No(s)		COC No	
Client Contact: 1050 Henderson/voors		Phone: 850-336-0192		Brown, Shall				Page: Page 4 of 6	
SCS Contacts		Company:		E-Mail: shall.brown@eurofinset.com				Job #:	
Address: 3535 Colonnade Pkwy Bin S 530 EC		Due Date Requested:		Field Filtered Sample (Yes or No)		Analysis Requested		Preservation Codes:	
City: Birmingham		TAT Requested (days):		FORMS/MS/MS (Yes or No)		915 Ra226 Radium 226		A - HCL	
State, Zip: AL, 35243		PO #:		300 28Day Chloride Fluoride Sulfate		930 Ra228 Radium 228		M - Hexane	
Phone: 205-992-6283		WC #:		6020B/470 System 20 (ApIII/ApiV+9) + Mercury		920 Ra228 Radium 228		N - None	
Email:		Project #:		FORMS/MS/MS (Yes or No)		920B/470 System 20 (ApIII/ApiV+9) + Mercury		O - AsNaO2	
SCS Contacts: 18020186		SSOW#:		Field Filtered Sample (Yes or No)		920B/470 System 20 (ApIII/ApiV+9) + Mercury		P - Na2O4S	
Plant Name: Ash Pond (Surface Water)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		E - NaHSO4	
Site:		3-6-23		1151		SW		F - MeOH	
Sample Identification		3-6-23		1151		SW		G - Amchlor	
SW-11 -1		3-6-23		1042		SW		H - Ascorbic Acid	
SW-44 RDH 3-7-23		3-6-23		1112		SW		I - Ice	
SW-12 -1		3-6-23		1221		SW		J - DI Water	
SW-12 -1		3-6-23		1239		SW		K - EDTA	
SW-42 RDH 3-7-23		3-6-23		1221		SW		L - EDA	
SW-44 RDH 3-7-23		3-6-23		1239		SW		Other:	
SW-13 -1		3-6-23		1221		SW		M - Hexane	
SW-13 -1		3-6-23		1239		SW		N - None	
SW-43 RDH 3-7-23		3-6-23		1221		SW		O - AsNaO2	
SW-44 RDH 3-7-23		3-6-23		1239		SW		P - Na2O4S	
SW-13 -1		3-6-23		1221		SW		Q - Na2SO3	
SW-13 -1		3-6-23		1239		SW		R - Na2SO3	
SW-43 RDH 3-7-23		3-6-23		1221		SW		S - H2SO4	
SW-44 RDH 3-7-23		3-6-23		1239		SW		T - TSP Dodecahydrate	
Possible Hazard Identification		Date/Time		Date/Time		Date/Time		Date/Time	
<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		3-7-23		1604		RDH ENV		5-8-23	
Deliverable Requested: I, II, III, IV, Other (specify)		Date:		Date:		Date:		Date:	
Empty Kit Relinquished by:		Date/Time		Date/Time		Date/Time		Date/Time	
Relinquished by: <i>my sign</i>		3-7-23		1604		RDH ENV		5-8-23	
Relinquished by:		Date/Time		Date/Time		Date/Time		Date/Time	
Relinquished by:		Date/Time		Date/Time		Date/Time		Date/Time	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No:		Cooler Temperature(s) °C and Other Remarks:		Special Instructions/Note:		Special Instructions/Note:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No:		Cooler Temperature(s) °C and Other Remarks:		Special Instructions/Note:		Special Instructions/Note:	



Chain of Custody Record

Sampler: *Ave of Lakes / 100DS* Lab PM: Brown, Shali
 Client Contact: *Hopendaxfo / 100DS* E-Mail: shali.brown@eurofins.com
 SCS Contacts: *850-336-0192* Phone: *850-336-0192*

Address: 3535 Colonnade Pkwy Bin S 530 EC
 City: Birmingham
 State, Zip: AL, 35243
 Phone: 205-992-6283
 Email:
 SCS Contacts:
 Project Name: 18020186
 Plant Name: Watson
 Site: Ash Pond (Surface Water)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wast/soil, etc-tissue, A=air)	Field Filtered Sample (Yes or No)	300 28Day Chloride Fluoride Sulfate	6020B/1740-Custom 28 (App/Alp/PIV+9) + Mercury	9315 Ra226 Radium 226	9320 Ra228 Radium 228	Combined RAD	Total Number of Containers	DEPTH GOES HERE
SW-14 - 1.5	3-6-23	1314	G	SW	X	X	X	X	X	X	X	1.5 ft
SW-14 - 1.5	3-6-23	1329	G	SW	X	X	X	X	X	X	X	1.5 ft
SW-14 ADH 3-7-23												
SW-14 ADH 3-7-23												
SW-15 - 1.5	3-6-23	1350	G	SW	X	X	X	X	X	X	X	1.5 ft
SW-15 - 1.5	3-6-23	1410	G	SW	X	X	X	X	X	X	X	1.5 ft
SW-15 ADH 3-7-23												
SW-15 ADH 3-7-23												
SW-16 - 1.5	3-6-23	1448	G	SW	X	X	X	X	X	X	X	1.5 ft
SW-16 - 1.5	3-6-23	1508	G	SW	X	X	X	X	X	X	X	1.5 ft
SW-16 ADH 3-7-23												

Special Instructions/Note:
 Special Instructions/QC Requirements:
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Empty Kit Relinquished by:
 Relinquished by: *Angi Agre* Date: 3-7-23 Time: 1604
 Relinquished by: *Paul O'Neil* Date: 3-8-23 Time: 0928
 Relinquished by: _____ Date: _____ Time: _____
 Custody Seals Intact: Yes No Custody Seal No.:
 Cooler Temperature(s) °C and Other Remarks:
 Ver: 01/16/2019



Chain of Custody Record

Client Information Client Contact: <u>Headquarters / TOPP</u> SCS Contacts: <u>Varis</u> Company: <u>SCS</u> Phone: <u>850-336-0192</u>		Lab PW: <u>Brown, Shail</u> E-Mail: <u>shail.brown@eurofinset.com</u>		Carrier Tracking No(s): Job#: <u>Page 6 of 6</u>	
Due Date Requested: TAT Requested (days): City: <u>Birmingham</u> State/Zip: <u>AL, 35243</u> Phone: <u>205-992-6283</u> Email: SCS Contacts: Project Name: <u>18020186</u> Plant: <u>Watson</u> Site: <u>Ash Pond (Surface Water)</u>		Analysis Requested: 6020B/7470 Custom 28 (AppII/A/PIV/9) + Mercury 300_28Day Chloride Fluoride Sulfate 9315_Ra226 Radium 226 9320_Ra228 Radium 228 Combined RAD		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 - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Sample Identification SW-16 <u>ASH 3-7-23 EB-01</u> SW-17 <u>-1</u> SW-17 <u>-1</u> SW-17 <u>ASH 3-7-23 FB-01</u> SW-17 <u>ASH 3-7-23</u> DUP-01 DUP-01 DUP-02 DUP-02 DUP-03 DUP-03		Sample Date 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23		Sample Time 0816 1038 1057 0813 1121 1139 1639 1656 0942 1012	
Matrix (W=water, S=solid, O=soil, BT=trace, AA=)		Sample Type (C=Comp, G=grab)		Preservation Code: SW SW SW SW SW SW SW SW SW	
Field Filtered Sample (Yes or No)		Field Filtered Sample (Yes or No)		Field Filtered Sample (Yes or No)	
Total Number of Containers		Total Number of Containers		Total Number of Containers	
Special Instructions/Note: DEPTH GOES HERE TOTAL ONLY TOTAL ONLY		Special Instructions/Note: DEPTH GOES HERE TOTAL ONLY TOTAL ONLY		Special Instructions/Note: DEPTH GOES HERE TOTAL ONLY TOTAL ONLY	
Depth = Depth = Depth = Depth = Depth = Depth = Depth = Depth = Depth = Depth =		Depth = Depth = Depth = Depth = Depth = Depth = Depth = Depth = Depth = Depth =		Depth = Depth = Depth = Depth = Depth = Depth = Depth = Depth = Depth = Depth =	
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		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		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: <input type="checkbox"/> I, <input type="checkbox"/> II, <input type="checkbox"/> III, <input type="checkbox"/> IV, <input type="checkbox"/> Other (specify)		Deliverable Requested: <input type="checkbox"/> I, <input type="checkbox"/> II, <input type="checkbox"/> III, <input type="checkbox"/> IV, <input type="checkbox"/> Other (specify)		Deliverable Requested: <input type="checkbox"/> I, <input type="checkbox"/> II, <input type="checkbox"/> III, <input type="checkbox"/> IV, <input type="checkbox"/> Other (specify)	
Empty Kit Relinquished by:		Empty Kit Relinquished by:		Empty Kit Relinquished by:	
Relinquished by: <u>Shail Brown</u> Date/Time: <u>3-7-23 1604</u>		Relinquished by: <u>Shail Brown</u> Date/Time: <u>3-7-23 1604</u>		Relinquished by: <u>Shail Brown</u> Date/Time: <u>3-7-23 1604</u>	
Relinquished by:		Relinquished by:		Relinquished by:	
Relinquished by:		Relinquished by:		Relinquished by:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	





Client Information Client Contact: <u>Andrew / Nureis</u> Phone: <u>850-336-0192</u> Company: SCS		Lab PM: Brown, Shali E-Mail: shali.brown@eurofinset.com	
Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email: SCS Contacts Project Name: 18020186 Plant: Watson Site: Ash Pond (Surface Water)			
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: SSO#W#:		Analysis Requested 9315_Ra226 Radium 226 9320_Ra228 Radium 228 Combined RAD	
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=wastewater, BT=Tissue, Asst)		Field Filtered Sample (Yes or No) 6020B/470-Chloride Fluoride Sulfate + Mercury 300_28Day Chloride Fluoride Sulfate	
Sample Date Sample Time Sample Type Matrix		Preservation Code SW	
SW-1 -1'	3-6-23 1739	G	SW
SW-1 -1'	3-6-23 1756	G	SW
SW-1 -7'	3-6-23 1813	G	SW
SW-1 -7'	3-6-23 1825	G	SW
SW-2 -1'	3-6-23 1650	G	SW
SW-2 -1'	3-6-23 1703	G	SW
SW-2 -7'	3-6-23 1714	G	SW
SW-2 -7'	3-6-23 1723	G	SW
SW-3 -1'	3-6-23 0912	G	SW
SW-3 -1'	3-6-23 0925	G	SW
SW-3 -4'	3-6-23 0939	G	SW
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 Deliverable Requested I, II, III, IV, Other (specify)			
Empty Kit Relinquished by: <u>Andrew</u> Date: 3-7-23 1604 Relinquished by: <u>Andrew</u> Date/Time: 3-7-23 1604 Company: KDK GW Relinquished by: Date/Time: Company: Relinquished by: Date/Time: Company:			
Special Instructions/Note: DEPTH GOES HERE Depth = 1 ft Depth = 1 ft Depth = 7 ft Depth = 7 ft Depth = 1 ft Depth = 1 ft Depth = 7 ft Depth = 7 ft Depth = 1 ft Depth = 1 ft Depth = 4 ft			
Total Number of containers:			
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: 3-8-23 1800 Company: ERANE Received by: Date/Time: Company: Received by: Date/Time: Company:			
Cooler Temperature(s) °C and Other Remarks:			
Custody Seal No.: Δ Yes Δ No			



Chain of Custody Record

Sampler: *Rich + barker / TAD*
 Phone: *850-326-0192*
 Lab P.M.: Brown, Shali
 E-Mail: shali.brown@eurofinset.com

Client Information
 Client Contact: *Hayward*
 SCS Contacts: *Vatess*
 Company: SCS

Address: 3535 Colonnade Pkwy Bin S 530 EC
 City: Birmingham
 State: AL, Zip: 35243
 Phone: 205-992-6283
 Email: 205-992-6283
 SCS Contacts: *Plant Watson*
 Project Name: *18020186*
 Site: *Ash Pond (Surface Water)*

Due Date Requested:
 TAT Requested (days):
 PO #:
 WO #:
 Project #:
 SCSOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, B=bottom, A=air)	Field Filtered Sample (Yes or No)	300 28Day Chloride Fluoride Sulfate	6020B/7470 Gypsum (8 (AP/II/AP/IV+9) + Mercury	9315_Ra226 Radium 226	9320_Ra228 Radium 228	Combined RAD	Total Number of Containers	DEPTH GOES HERE	Special Instructions/Note:
SW-3 - 4'	3-6-23	0950	G	SW	X	X	X	X	X	X	X	4 ft	
SW-4 - 1.5'	3-6-23	1137	G	SW	X	X	X	X	X	X	X	1.5 ft	
SW-4 - 1.5'	3-6-23	1145	G	SW	X	X	X	X	X	X	X	1.5 ft	
SW-5 - 1'													
SW-5 - 1'													
SW-5 - 13'	3-6-23	0803	G	SW	X	X	X	X	X	X	X	1 ft	
SW-5 - 1'	3-6-23	0819	G	SW	X	X	X	X	X	X	X	1 ft	
SW-5 - 13'	3-6-23	0835	G	SW	X	X	X	X	X	X	X	13 ft	
SW-5 - 13'	3-6-23	0853	G	SW	X	X	X	X	X	X	X	13 ft	
SW-6 - 1'	3-6-23	0921	G	SW	X	X	X	X	X	X	X	1 ft	
SW-6 - 1'	3-6-23	0938	G	SW	X	X	X	X	X	X	X	1 ft	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements
 Method of Shipment:

Date: _____ Time: _____
 Relinquished by: *my HA* Date: *3-7-23* Time: *1604* Company: *RAH ENV*
 Relinquished by: _____ Date: _____ Time: _____ Company: _____
 Relinquished by: _____ Date: _____ Time: _____ Company: _____

Custody Seals Intact: _____
 Δ Yes Δ No

Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks:

Client Information
 Client Contact: *Hyderabad / Voreis*
 SCS Contacts: *850-336-0192*
 Company: SCS

Sampler: *Atk + Luna / TSS*
 Lab PII: Brown, Shali
 E-Mail: shali.brown@eurofinset.com

Carrier Tracking No(s):
 Page: *Page 3 of 6*
 Job #:

Address: 3535 Colonnade Pkwy Bin S 630 EC
 City: Birmingham
 State/Zip: AL, 35243
 Phone: 205-992-6283
 Email:
 SCS Contacts
 Project Name: Plant Watson
 Site: Ash Pond (Surface Water)

Due Date Requested:
 TAT Requested (days):
 PO #:
 WO #:
 Project #: 18020186
 SSON#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Soil, O=Other)	Field Filtered Sample (Yes or No)	300 28Day Chloride Fluoride Sulfate	6020B/1470 Gases (AP/PP/AP/PIV+9) + Mercury	9315 Ra226 Radium 226	9320 Ra228 Radium 228	Combined RAD	Total Number of Containers	DEPTH GOES HERE	Special Instructions/Note:
SW-6-9.5	3-6-23	0953	G	SW	X	X	X	X	X	X		Depth = 9.5 ft	
SW-6-9.5	3-6-23	1010	G	SW	X	X	X	X	X	X		Depth = 9.5 ft	
SW-9-1'	3-6-23	1306	G	SW	X	X	X	X	X	X		Depth = 1 ft	
SW-9-1'	3-6-23	1322	G	SW	X	X	X	X	X	X		Depth = 1 ft	
SW-9-4'	3-6-23	1331	G	SW	X	X	X	X	X	X		Depth = 4 ft	
SW-9-4'	3-6-23	1345	G	SW	X	X	X	X	X	X		Depth = 4 ft	
SW-10-2'	3-6-23	1231	G	SW	X	X	X	X	X	X		Depth = 2 ft	
SW-10-2'	3-6-23	1248	G	SW	X	X	X	X	X	X		Depth = 2 ft	
SW-10-RDN 3-2-23				SW	X	X	X	X	X	X		Depth = 1 ft	
SW-10-RDN 3-7-23				SW	X	X	X	X	X	X		Depth = 1 ft	
SW-11-RDN 3-2-23 -1'				SW	X	X	X	X	X	X		Depth = 1 ft	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by:
 Relinquished by: *mp/kl*
 Relinquished by:
 Relinquished by:

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: *3-8-23 9:28*
 Date/Time:
 Date/Time:

Company: *CRANE*
 Company:
 Company:

Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record

Sampler: *Rick K* Lab PM: Brown, Shall
 Client Contact: *Angela Soto* E-Mail: shall.brown@eurofinset.com
 SCS Contacts: Phone: *850-336-0192*
 Company: SCS

Address: 3535 Colonnade Pkwy Bin S 530 EC
 City: Birmingham
 State, Zip: AL, 35243
 Phone: 205-992-6283
 Email: SCS Contacts
 Project #: 18020186
 Plant Name: Plant Watson
 Site: Ash Pond (Surface Water)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, etc.)	Field Filtered Sample (Yes or No)	Analysis Requested	Carrier Tracking No(s)	COG No
SW-11 -1	3-6-23	1151	G	SW	X	300 28Day Chloride Fluoride Sulfate 6020B/470 (As/III/As(IV)/Pb+9) + Mercury 915 Ra226 Radium 226 930 Ra228 Radium 228 Combined RAD		
SW-11 -1				SW	X			
SW-12 -1	3-6-23	1042	G	SW	X			
SW-12 -1	3-6-23	1112	G	SW	X			
SW-13 -1	3-6-23	1221	G	SW	X			
SW-13 -1	3-6-23	1239	G	SW	X			
SW-13 -1				SW	X			
SW-13 -1				SW	X			
SW-13 -1				SW	X			
SW-13 -1				SW	X			
SW-13 -1				SW	X			
SW-13 -1				SW	X			
SW-13 -1				SW	X			

Special Instructions/Note: DEPTH GOES HERE

Depth = 1 ft

Depth =

Depth =

Depth = 1 ft

Depth = 1 ft

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Depth = 1 ft

Depth = 1 ft

Depth =

Depth =

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: *Angela Soto* Date: 3-7-23 Company: *ROH ENV*

Relinquished by: _____ Date: 1604 Company: _____

Relinquished by: _____ Date: _____ Company: _____

Custody Seals Intact: _____ Custody Seal No. _____

Δ Yes Δ No

Chain of Custody Record

Sampler: *Ave of Lakes / 100DS* Lab PM: *Brown, Shall*
 Client Contact: *Hopendaxfo / 100DS* E-Mail: *shall.brown@eurofins.com*
 SCS Contacts: *850-336-0192*
 Company: *Page 5 of 6*

Address: 3535 Colonnade Pkwy Bin S 530 EC
 City: Birmingham
 State, Zip: AL, 35243
 Phone: 205-992-6283
 Email:
 SCS Contacts:
 Project Name: 18020186
 Plant Name: Watson
 Site: Ash Pond (Surface Water)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wast/soil, etc-tissue, A=air)	Field Filtered Sample (Yes or No)	300 28Day Chloride Fluoride Sulfate	6020B1740-Customer 28 (App/Alp/PIV+9) + Mercury	9315 Ra226 Radium 226	9320 Ra228 Radium 228	Combined RAD	Total Number of Containers	DEPTH GOES HERE
SW-14 - 1.5	3-6-23	1314	G	SW	X	X	X	X	X	X	X	1.5 ft
SW-14 - 1.5	3-6-23	1329	G	SW	X	X	X	X	X	X	X	1.5 ft
SW-14 ADH 3-7-23												
SW-14 ADH 3-7-23												
SW-15 - 1.5	3-6-23	1350	G	SW	X	X	X	X	X	X	X	1.5 ft
SW-15 - 1.5	3-6-23	1410	G	SW	X	X	X	X	X	X	X	1.5 ft
SW-15 ADH 3-7-23												
SW-15 ADH 3-7-23												
SW-16 - 1.5	3-6-23	1448	G	SW	X	X	X	X	X	X	X	1.5 ft
SW-16 - 1.5	3-6-23	1508	G	SW	X	X	X	X	X	X	X	1.5 ft
SW-16 ADH 3-7-23												

Special Instructions/Note:
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Jim Agler* Date/Time: *3-7-23 1604* Company: *ADH*
 Relinquished by: *Paul Olney* Date/Time: *3-8-23 09:28* Company: *ADH*
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: Yes No Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: _____

Chain of Custody Record

Client Information Client Contact: <u>Headquarters / TOPP Vareis</u> SCS Contacts: <u>850-336-0192</u> Company: <u>SCS</u>		Lab PW: <u>Brown, Shail</u> E-Mail: <u>shail.brown@eurofinset.com</u>		Carrier Tracking No(s): Job#: <u>Page 6 of 6</u>							
Address: <u>3535 Colonnade Pkwy Bin S 530 EC</u> City: <u>Birmingham</u> State/Zip: <u>AL, 35243</u> Phone: <u>205-992-6283</u> Email: _____ SCS Contacts: _____ Project Name: <u>18020186</u> Plant: <u>Watson</u> Site: <u>Ash Pond (Surface Water)</u>		Due Date Requested: TAT Requested (days): _____ PO #: _____ WO #: _____ Project #: _____ SOW#: _____		Analysis Requested 6020B/470 Custom 28 (AppII/APV/9) + Mercury 300 28Day Chloride Fluoride Sulfate 9315_Ra226 Radium 226 9320_Ra228 Radium 228 Combined RAD Total Number of Containers: _____							
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil/sediment, BT=trace, AA=)	Field Filtered Sample (Yes or No)	300 28Day Chloride Fluoride Sulfate	6020B/470 Custom 28 (AppII/APV/9) + Mercury	9315_Ra226 Radium 226	9320_Ra228 Radium 228	Combined RAD	Special Instructions/Note:
SW-16 <u>ASH 3-7-23 EB-01</u>	<u>3-6-23</u>	<u>0816</u>	<u>G</u>	<u>SW</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>DEPTH GOES HERE</u>
SW-17 <u>SW-17 -1'</u>	<u>3-6-23</u>	<u>1038</u>	<u>G</u>	<u>SW</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>DEPTH = 1ft</u>
SW-17 <u>SW-17 -1'</u>	<u>3-6-23</u>	<u>1057</u>	<u>G</u>	<u>SW</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>DEPTH = 1ft</u>
SW-17 <u>ASH 3-7-23 FB-01</u>	<u>3-6-23</u>	<u>0813</u>	<u>G</u>	<u>SW</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>DEPTH GOES HERE</u>
SW-17 <u>ASH 3-7-23</u>											<u>DEPTH GOES HERE</u>
<u>DUP-01</u>	<u>3-6-23</u>	<u>1121</u>	<u>G</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>DEPTH GOES HERE</u>
<u>DUP-01</u>	<u>3-6-23</u>	<u>1139</u>	<u>G</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>DEPTH GOES HERE</u>
<u>DUP-02</u>	<u>3-6-23</u>	<u>1639</u>	<u>G</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>DEPTH GOES HERE</u>
<u>DUP-02</u>	<u>3-6-23</u>	<u>1656</u>	<u>G</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>DEPTH GOES HERE</u>
<u>DUP-03</u>	<u>3-6-23</u>	<u>0942</u>	<u>F</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>DEPTH GOES HERE</u>
<u>DUP-03</u>	<u>3-6-23</u>	<u>1012</u>	<u>G</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>DEPTH GOES HERE</u>
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: _____											
Relinquished by: <u>Shail Brown</u> Relinquished by: _____ Relinquished by: _____		Date/Time: <u>3-7-23 1604</u> Date/Time: _____ Date/Time: _____		Date/Time: _____ Date/Time: _____ Date/Time: _____		Date/Time: <u>3-8-23 0928</u> Date/Time: _____ Date/Time: _____		Date/Time: _____ Date/Time: _____ Date/Time: _____		Company: <u>ASH ENV.</u> Company: _____ Company: _____	
Custody Seals Intact: <u>Yes</u> <input type="checkbox"/> No <input type="checkbox"/> Cooler Temperature(s) °C and Other Remarks: _____											



Do Not Lift Using This Tag

Recipient's Name <i>Please print.</i>	Phone Number
	()
Dept./Floor/Suite/Room	

ORIGIN ID: BIXA (850) 336-0192
 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US

SHIP DATE: 07MAR23
 ACTWGT: 75.40 LB
 CAD: 6993800/SSFE2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY

Part # 150297435-9402929EX-12/23

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH PA 15238

(850) 336-0192
 INVT
 PO:

REF:

DEPT:

Uncorrected temp 3.0 °C
 Thermometer ID 18
 CF 0.1 Initials MS
 PT-WI-SR-001 effective 11/8/18



7 of 12
 MPS# 3954 6846 9146
 Mstr# 3954 6846 9087

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

0201

15238
 PA-US PIT



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ORIGIN ID:BIXA (850) 336-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 68.00 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN

BILL THIRD PARTY

Part # 15629743424242023EXP 12/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

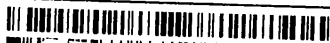
PITTSBURGH PA 15238

(850) 336-0192

REF:

INU:

DEPT:



Uncorrected temp
Thermometer ID

3.2 °C

CF 0.1 Initials

MD

PT-WI-SR-001 effective 11/8/18

FedEx
Express



10 of 12

MPS# 0263 3954 6846 9179

Mstr# 3954 6846 9087

0201

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



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Recipient's Name Please print.

Phone Number

ORIGIN ID: BIXA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWT: 69.00 LB
CAD: 6993800/55FE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

Part # 156297238928102 BCS EXP 12/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192
REF: DEPT:



Uncorrected temp
Thermometer ID

2.7 °C

CF O.I. Initials

MO.

PT-VII-SR-001 effective 11/8/18



FedEx Express



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5 of 12
MPS# 3954 6846 9124
0263
Metr# 3954 6846 9087

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WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



Driver: Place Astra or Barcoded Label Here

Do Not Lift Using This Tag

ORIGIN ID: BIXA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

SHIP DATE: 07MAR23
ACTWT: 68.00 LB
CAD: 6993800/85FE2401
DIMS: 23x14x13 IN

PITTSBURGH, PA 15238
UNITED STATES US

BILL THIRD PARTY

TO

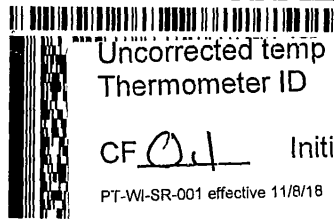
**TESTAMERICA PITTSBURGH LAB
301 ALPHA DR**

PITTSBURGH PA 15238

(850) 336-0192
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Uncorrected temp
Thermometer ID

25 °C
18

CF Oil Initials MO

PT-WI-SR-001 effective 11/8/18

**FedEx
Express**



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9 of 12

MPS# 3954 6846 9168
0263

Mstr# 3954 6846 9087

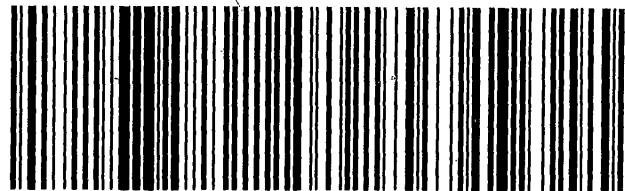
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**WED - 08 MAR 10:30A
PRIORITY OVERNIGHT**

XN AGCA

15238

PA-US PIT



Courier or Driver: Place Astra or Barcoded Label Here

Part #: 15029742082018271EXP 12/23

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Recipient's Name <i>Please print.</i>	Phone Number
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ORIGIN ID: BIXA (850) 336-0192 TESTAMERICA PITTSBURGH LAB 301 ALPHA DR PITTSBURGH, PA 15238 UNITED STATES US	SHIP DATE: 07MAR23 ACTWGT: 67.60 LB CAD: 6993900/SSFE2401 DIMS: 23x14x13 IN BILL THIRD PARTY
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TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR



PITTSBURGH PA 15238

(850) 336-0192 REF: DEPT:

UNCORRECTED TEMP 2.6 °C
THERMOMETER ID 18

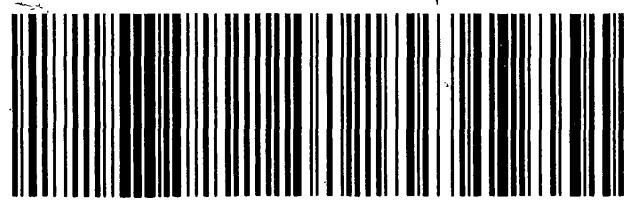
CF UJ INITIALS MO

PT-VI-SR-001 effective 11/8/18

6 of 12 WED - 08 MAR 10:30A
MPS# 0263 3954 6846 9135 PRIORITY OVERNIGHT
Mstr# 3954 6846 9087 0201

XN AGCA 15238
PA-US PIT



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Do Not Lift Using This Tag

ORIGIN ID:BIXA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWTG: 76.60 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

Part #: 15629123232323232323

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(860) 336-0192 REF: DEPT:
INU: PO:



Uncorrected temp 2.5 °C
Thermometer ID 18
CF 0.1 Initials MO
PT-WI-SR-001 effective 11/8/18



8 of 12

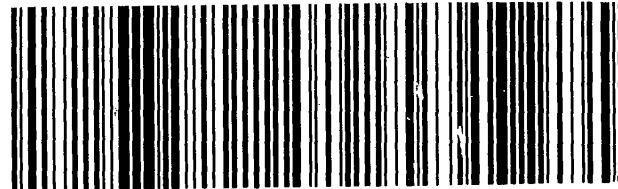
WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

MPS# 0263 3954 6846 9157

Mstr# 3054 6846 9087 0201

XN AGCA

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PA-US PIT



Barcoded Label Here

ORIGIN ID: BIXA (850) 336-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 66.65 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN

BILL THIRD PARTY

Part # 156297426/FRN052/REP-12/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192

REF:

INV:

DEPT:



Uncorrected temp
Thermometer ID

3.0 °C

18

CF 0.1 Initials MD

PT-WI-SR-001 effective 11/8/18

FedEx
Express



AN101111022011237

2 of 12

MPS# 3954 6846 9098

Mstr# 3954 6846 9087

0261

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US PIT



Courier or Driver: Place Astra or Barcoded Label Here

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Do Not Lift Using This Tag

Shipper Name Please Print ORIGIN ID: BIXA (850) 336-0192 TESTAMERICA PITTSBURGH LAB 301 ALPHA DR PITTSBURGH, PA 15238 UNITED STATES US		Phone Number SHIP DATE: 07MAR23 ACTWGT: 71.30 LB CAD: 6993800/SSFE2401 DIMS: 23x14x13 IN BILL THIRD PARTY
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TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238
 (850) 336-0192 REF:

INVT UNCORRECTED TEMP THERMOMETER ID CF <u>Oil</u> Initials <u>ms</u> PT-WI-SR-001 effective 11/8/18	DEPT: <u>2.7</u> °C <u>18</u>
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1 of 12
 TRK# 0201 3954 6846 9087
 ## MASTER ##

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



Courier or Driver: Place Astra or Barcoded Label Here

Do Not Lift Using This Tag

ORIGIN ID: BIXA (850) 336-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 78.15 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN

BILL THIRD PARTY

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192

REF:

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PO:

DEPT:



Uncorrected temp 2.3 °C
Thermometer ID 18

CF Oel Initials MO

PT-WI-SR-001 effective 11/8/18

FedEx
Express



AM101106201327

4 of 12

MPS# 3954 6846 9113

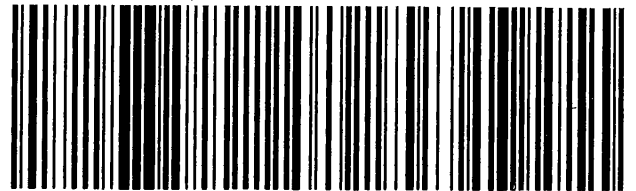
Mstr# 3954 6846 9087

0201

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



Courier or Driver: Place Astra or Barcoded Label Here

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Do Not Lift Using This Tag

Recipient's Name <i>Please print.</i>	Phone Number
	()
Dept./Floor/Suite/Room	


ORIGIN ID: BIXA (850) 336-0192
 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US

SHIP DATE: 07MAR23
 ACTWGT: 75.40 LB
 CAD: 6993800/SSFE2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY

Part # 150297435-9402929EX-12/23

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH PA 15238

(850) 336-0192 REF: DEPT:

INVT PO: 

Uncorrected temp 3.0 °C
 Thermometer ID 18

CF 0.1 Initials MS

PT-WI-SR-001 effective 11/8/18



7 of 12
 MPS# 3954 6846 9146
 Mstr# 3954 6846 9087 0201
XN AGCA
 WED - 08 MAR 10:30A
 PRIORITY OVERNIGHT
 15238
 PA-US PIT



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No Not Lift Using This Tag

ORIGIN ID:BIXA (850) 336-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWTG: 68.00 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN

BILL THIRD PARTY

Part # 15629743424242023EXP 12/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

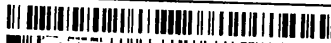
PITTSBURGH PA 15238

(850) 336-0192

REF:

NU:

DEPT:



Uncorrected temp
Thermometer ID

3.2 °C

CF 0.1 Initials *MD*

PT-WI-SR-001 effective 11/8/18

FedEx
Express



10 of 12

MPS# 0263 3954 6846 9179

Mstr# 3954 6846 9087

0201

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US PIT



Do Not Lift Using This Tag

Recipient's Name Please print.

Phone Number

ORIGIN ID: BIXA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWT: 69.00 LB
CAD: 6993800/55FE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

Part # 156297238928102 BCS EXP 12/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192
REF: DEPT:



Uncorrected temp
Thermometer ID

2.7 °C

CF 0.1 Initials MO.

PT-VII-SR-001 effective 11/8/18



FedEx Express



AL1011106201238

5 of 12
MPS# 3954 6846 9124
0263
Mstr# 3954 6846 9087

0201

XN AGCA

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

15238
PA-US PIT



Driver: Place Astra or Barcoded Label Here

Do Not Lift Using This Tag

ORIGIN ID: BIXA (850) 336-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWT: 68.00 LB
CAD: 6993800/85FE2401
DIMS: 23x14x13 IN

BILL THIRD PARTY

Part #: 150297420826R00376EXP 12/23

TO

**TESTAMERICA PITTSBURGH LAB
301 ALPHA DR**

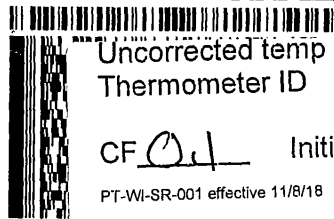
PITTSBURGH PA 15238

(850) 336-0192

REF:

TNU:
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DEPT:



Uncorrected temp
Thermometer ID

25 °C
18

CF Oil Initials MO

PT-WI-SR-001 effective 11/8/18

**FedEx
Express**



AN1011108201827

9 of 12

MPS# 3954 6846 9168
0263

Mstr# 3954 6846 9087

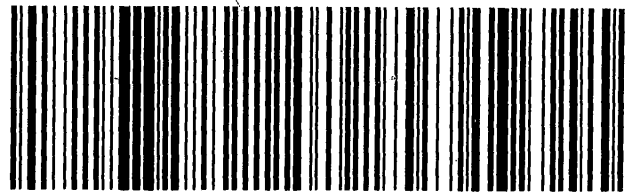
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**WED - 08 MAR 10:30A
PRIORITY OVERNIGHT**

XN AGCA

15238

PA-US PIT



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Recipient's Name <i>Please print.</i>	Phone Number
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ORIGIN ID: BIXA (850) 336-0192
 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US

SHIP DATE: 07MAR23
 ACTWGT: 67.60 LB
 CAD: 6993900/SSFE2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY

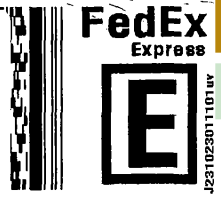
TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192 REF: DEPT:



Uncorrected temp 2.6 °C
 Thermometer ID 18
 CF U.J Initials Mo
 PT-VI-SR-001 effective 11/8/18

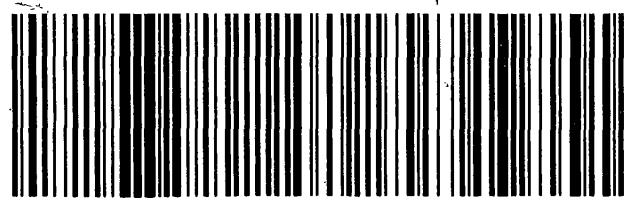


6 of 12
 MPS# 0263 **3954 6846 9135**
 Metr# 3954 6846 9087

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
 PA-US **PIT**



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ORIGIN ID: BIXA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 76.60 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

Part #: 1562974898PWR023 EXCP-12/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192 REF: INU: PO: DEPT:



Uncorrected temp 2.5 °C
Thermometer ID 18

CF 0.1 Initials Mo

PT-WI-SR-001 effective 11/8/18

FedEx
Express



AN1011100201227

8 of 12

MPS# 3954 6846 9157
0263

Mstr# 3054 6846 9087

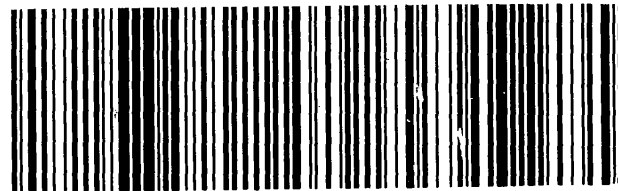
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ORIGIN ID: BIXA (850) 336-0192
 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US

SHIP DATE: 07MAR23
 ACTWGT: 71.85 LB
 CAD: 6993800/SSFE2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY

Part # 1562917632454010378XP-12/23

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH PA 15238



(850) 336-0192 REF: DEPT: THU: PO:

FedEx Express
AN10111032011227

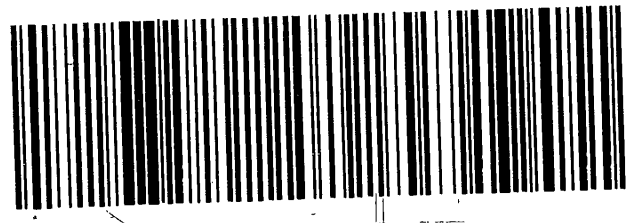
Uncorrected temp 2.5 °C
 Thermometer ID B

CF Q. J Initials MO

PT-WI-SR-001 effective 11/9/18

11 of 12
 WED - 08 MAR 10:30A
PRIORITY OVERNIGHT
 MPS# 0263 3954 6846 9180
 Mstr# 3954 6846 9087 0201
XN AGCA
 15238 PA-US PIT



ORIGIN ID: BIXA (850) 336-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 66.65 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN

BILL THIRD PARTY

Part # 156297426/FINNOSEZ BEUP-12/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192

REF:

INV:

DEPT:



Uncorrected temp
Thermometer ID

3.0 °C
18

CF 0.1 Initials MD

PT-WI-SR-001 effective 11/8/18

FedEx
Express



AN101111022011237

2 of 12

MPS# 3954 6846 9098

Mstr# 3954 6846 9087

0261

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US PIT



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Shipper Name Please Print ORIGIN ID: BIXA (850) 336-0192 TESTAMERICA PITTSBURGH LAB 301 ALPHA DR PITTSBURGH, PA 15238 UNITED STATES US		Phone Number SHIP DATE: 07MAR23 ACTWGT: 71.30 LB CAD: 6993800/SSFE2401 DIMS: 23x14x13 IN BILL THIRD PARTY
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TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238
 (850) 336-0192 REF:

INVT UNCORRECTED TEMP THERMOMETER ID CF <u>Oil</u> Initials <u>ms</u> PT-WI-SR-001 effective 11/8/18	DEPT: 2.7 °C 18
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1 of 12
 TRK# 0201 3954 6846 9087
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WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



Courier or Driver: Place Astra or Barcoded Label Here

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ORIGIN ID: BIXM (850) 336-0192
 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US

SHIP DATE: 07MAR23
 ACTWGT: 62.15 LB
 CAD: 6993800/SSFE2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY

TO
 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH PA 15238
 (850) 336-0192

INVT
 PO1
 (REF)
 DEPT:
 Uncorrected temp
 Thermometer ID

CF Q.J. Initials MO
 PT-WI-SR-001 effective 11/8/18



3 of 12
 MPS# 0263 3954 6846 9102
 Mstr# 3954 6846 9087

WED - 08 MAR 10:30A
 PRIORITY OVERNIGHT

XN AGCA

15238
 PA-US PIT



Do Not Lift Using This Tag

ORIGIN ID: BIXA (850) 336-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 78.15 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN

BILL THIRD PARTY

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192

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Uncorrected temp 2.3 °C
Thermometer ID 18

CF Oel Initials MO

PT-WI-SR-001 effective 11/8/18

FedEx
Express



Part # 156291932-1440238-EXP 12/23

4 of 12

MPS# 3954 6846 9113
0263

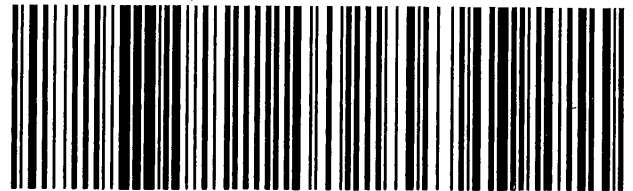
Mstr# 3954 6846 9087

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WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

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PA-US PIT



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Dept./Floor/Suite/Room	

ORIGIN ID: BIXA (850) 336-0192
 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US

SHIP DATE: 07MAR23
 ACTWGT: 75.40 LB
 CAD: 6993800/SSFE2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY

Part # 156296230-982828EX-12/23

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192 REF: DEPT:

Uncorrected temp 3.0 °C
 Thermometer ID 18
 CF 0.1 Initials MM
 PT-WI-SR-001 effective 11/8/18

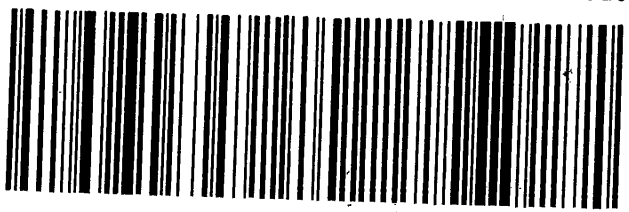


7 of 12
 MPS# 3954 6846 9146
 Mstr# 3954 6846 9087 0201
XN AGCA
 WED - 08 MAR 10:30A
 PRIORITY OVERNIGHT
 15238
 PA-US PIT



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15238 PA-US PIT

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MPS# 3954 6846 9179
Matr# 3954 6846 9087

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT



PT-WI-SR-001 effective 11/8/18

CF 0.1 Initials *Ms*

Thermometer ID *18*

Uncorrected temp *2.2* °C

PITTSBURGH PA 15238

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

SHIP DATE: 07MAR23
ACTWGT: 88.00 LB
CAD: 6993800/5SFE2401
DIMS: 23x14x13 IN
PITTSBURGH, PA 15238
UNITED STATES US

No Not Lift Using This Tag

Part # 1562912432CNRZ828EXP 12/23

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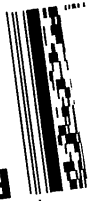
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PIT

MPS# 3954 6846 9124
Mstr# 3954 6846 9087
0263
0201

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

5 of 12
PT-M-SR-001 effective 11/6/18



2.7 °C
Mo.
Initials CF O.T.

Uncorrected temp
Thermometer ID



PITTSBURGH PA 15238
REF: (650) 386-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

Part # 1562974888 0860 0505 P 12/23

SHIP DATE: 07MAR23
ACTWGT: 69.00 LB
CDD: 6993800/SSFE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

ORIGIN ID: B1XA (650) 386-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

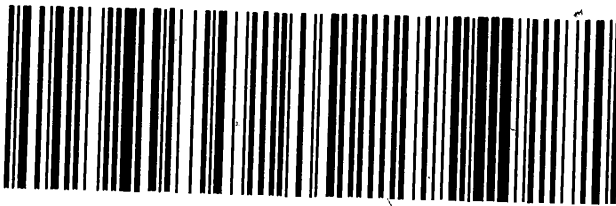
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15238 PA-US PIT

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MPS# 3954 6846 9168

MPS# 0263

9 of 12

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT



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PT-WI-SR-001 effective 11/8/18

CF Q.T. Initials mw

Uncorrected temp 25 °C

Thermometer ID 18

PITTSBURGH PA 15238

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

REF: (850) 396-0192

ORIGIN ID: BIXA (850) 396-0192

SHIP DATE: 07MAR23
ACTWGT: 68.00 LB
CAD: 699800/SFE2401
DIMS: 23X14X13 IN
BILL THIRD PARTY

PITTSBURGH, PA 15238
UNITED STATES US

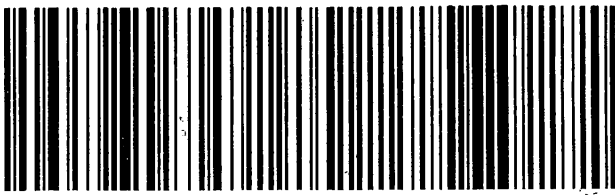
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

TO

Do Not Lift Using This Tag

Part # 156291a0362RR0092EXP 12/23

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15238 PA-US PIT

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MPS# 3954 6846 9135 0263

6 of 12
 WED - 08 MAR 10:30A
 PRIORITY OVERNIGHT

AN 10111082018Z

FedEx Express

Uncorrected temp 2.6 °C

Thermometer ID 18

CF Initials G.V.

Mo

PT-WI-SR-001 effective 11/8/18

Part # 1562974498-494062 EXP 12/23

TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH PA 15238

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ORIGIN ID: BIXA (850) 336-0192

TESTAMERICA PITTSBURGH LAB

301 ALPHA DR

PITTSBURGH, PA 15238

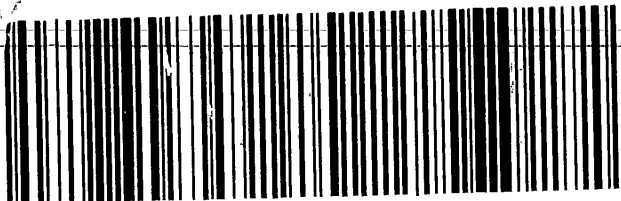
UNITED STATES US

SHIP DATE: 07MAR23
 ACTWGT: 67.60 LB
 CAD: 6993800/SFE2401
 DIMS: 23X14X13 IN
 BILL THIRD PARTY

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 8 of 12
WED - 08 MAR 10:30A
PRIORITY OVERNIGHT
 15238
 PA-US PIT

PT-WI-SR-001 effective 11/8/18
 CF O.I. Initials
 Mo
 Thermometer ID
 Uncorrected temp
 2.5 °C
edex
 Express
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 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH PA 15238
 REF: (850) 396-0192
 DEPT: INVT
 PO: (850) 396-0192
 SHIP DATE: 07MAR23
 ACTWGT: 26.60 LB
 CAD: 6993800/SSFE2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY
 UNITED STATES US

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Part # 1562912382PWR0631EXF 12/23

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PA-US
15238
PIT

XN AGCA

Mstr# 3954 6846 9087 0201

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

MPS# 3954 6846 9180

11 of 12



ANL11062012ZF

CF O.T. Initials Mo
Thermometer ID
Uncorrected temp
PT-WI-SR-001 effective 11/9/18

PITTSBURGH PA 15238

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

Part # 15629 (EXP) 12/23

SHIP DATE: 02MAR23
ACTWGT: 21.85 LB
CAD: 6993800/SSF2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

ORIGIN ID: B1XA (850) 336-0192

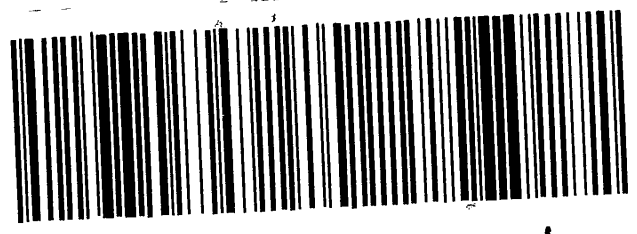
Recipient's Name Please print.

Phone Number

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15238 PIT PA-US

XN AGCA

0201

MPS# 3954 6846 9098
Mstr# 3954 6846 9087
2 of 12

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

PT-WI-SR-001 effective 11/8/18

AN0110820182Z



Uncorrected temp 3.0 °C
Thermometer ID 18
Initials CF D.T. M.A.

Uncorrected temp 3.0 °C
Thermometer ID 18



PITTSBURGH PA 15238

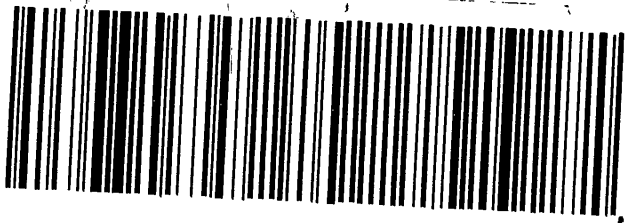
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

Part # 1562914882 PRN0623 EXP 12/23

SHIP DATE: 07MAR23
ACTWGT: 66.65 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY
ORIGIN ID: B1XA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

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WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

1 of 12
TRK# 3954 6846 9087
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MASTER

123110110123010242



PT-MI-SR-001 effective 11/8/18
CF O.L. Initials M
Thermometer ID 18
Uncorrected temp 2.7 °C
DEPT: REF: INV: (860) 336-0192

PITTSBURGH PA 15238

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

SHIP DATE: 07MAR23
ACTWGT: 21.30 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN
PITTSBURGH, PA 15238
UNITED STATES US
ORIGIN ID: B1XA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

Do Not Lift Using This Tag

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MPS# 0263 3954 6846 9102
Mstr# 3954 6846 9087
3 of 12

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT



231023011107

PT-WI-SR-001 effective 11/8/18

CFD.I
Initials *Mo*

Thermometer ID *18*

Uncorrected temp

DEPT: *217*

REF: *217*

PO: (860) 396-0192
PITTSBURGH PA 15238

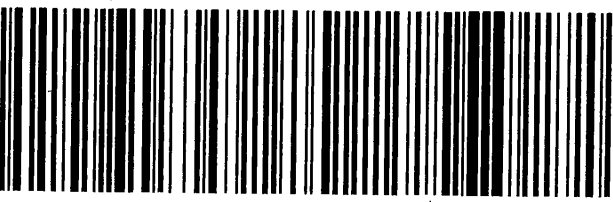
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH PA 15238

SHIP DATE: 02MAR23
ACTWGT: 62.15 LB
CAD: 693800/SFES2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

ORIGIN ID: B1X4 (850) 396-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

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Courier or Driver: Place Astra or Barcoded Label Here



15238 PA-US PIT

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MPS# 3954 6846 9113 0263
 Mstr# 3954 6846 9087 0201

WED - 08 MAR 10:30A
 PRIORITY OVERNIGHT



PT-WI-SR-001 effective 11/8/18

CF O.L. Initials mo

Thermometer ID 18

Uncorrected temp 2.3

PITTSBURGH PA 15238
 (850) 396-0192

TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR

SHIP DATE: 07MAR23
 ACTWGT: 28.15 LB
 CAD: 6993800/SSF2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY
 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US
 ORIGIN ID:BIKX (850) 396-0192

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Part # 15238 (0263) EXP 12/23

Do Not Lift Using This Tag

Recipient's Name <i>Please print.</i>	Phone Number
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Dept./Floor/Suite/Room	
ORIGIN ID: BIXA (850) 336-0192	SHIP DATE: 07MAR23
TESTAMERICA PITTSBURGH LAB	ACTWGT: 75.40 LB
301 ALPHA DR	CAD: 6993800/SSFE2401
PITTSBURGH, PA 15238	DIMS: 23x14x13 IN
UNITED STATES US	BILL THIRD PARTY

Part # 156296230-982828EX-12/23

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH PA 15238

(850) 336-0192 REF: DEPT:

Uncorrected temp 3.0 °C
 Thermometer ID 18
 CF 0.1 Initials MS
 PT-WI-SR-001 effective 11/8/18

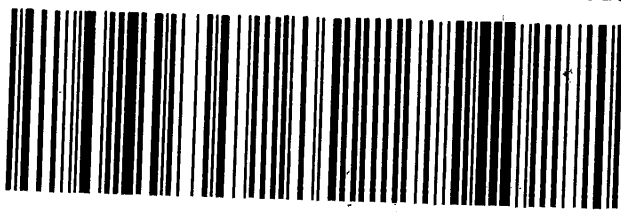


7 of 12
 MPS# 3954 6846 9146
 Mstr# 3954 6846 9087 0201
XN AGCA
 WED - 08 MAR 10:30A
 PRIORITY OVERNIGHT
 15238
 PA-US PIT



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15238 PA-US PIT

XN AGCA

MPS# 3954 6846 9179 0263
 Met# 3954 6846 9087 0201

WED - 08 MAR 10:30A
 PRIORITY OVERNIGHT



PT-WI-SR-001 effective 11/8/18

CF 0.1 Initials *Ms*

Thermometer ID *18*

Uncorrected temp *2.2* °C

PITTSBURGH PA 15238

TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR

SHIP DATE: 07MAR23
 ACTWGT: 88.00 LB
 CAD: 6993800/55FE2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY

Do Not Lift Using This Tag

Part # 1562912432CNRZ0828EXP 12/23

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Convert Price Astra or Barcoded Label Here

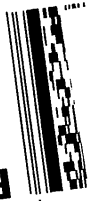


PA-US
15238
PIT

XN AGCA

MPS# 3954 6846 9124
Mstr# 3954 6846 9087
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0201

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT



Uncorrected temp
Thermometer ID
Initials
Mo. No.
2.7 °C
PT-M-SR-001 effective 11/6/18

PITTSBURGH PA 15238
REF: (650) 386-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

SHIP DATE: 07MAR23
ACTWGT: 69.00 LB
CDD: 6993800/SSFE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

ORIGIN ID: B1XA (650) 386-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

Do Not Lift Using This Tag

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Courier or Driver: Place Astra or Barcoded Label Here



15238 PA-US PIT

XN AGCA

MPS# 0263 Met# 3954 6846 9087

3954 6846 9168

9 of 12

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

0201



Uncorrected temp _____
Thermometer ID _____
Initials CF
PT-WI-SR-001 effective 11/8/18

PITTSBURGH PA 15238
REF: (850) 396-0192

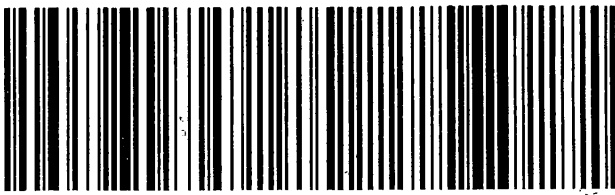
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

ORIGIN ID: BIXA (850) 396-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US
SHIP DATE: 07MAR23
ACTWGT: 68.00 LB
CAD: 6999800/SFE2401
DIMS: 23X14X13 IN
BILL THIRD PARTY

Part # 156291a0362RR0092EXP 12/23

Do Not Lift Using This Tag

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15238 PA-US PIT

XN AGCA

MPS# 3954 6846 9135 0263

6 of 12

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

AN 1011108201827

FedEx Express

Uncorrected temp 2.6°C

Thermometer ID 18

Initials CF Q.V.

No.

PT-WI-SR-001 effective 11/8/18

DEPT: INV: REF: (850) 336-0192

PITTSBURGH PA 15238

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

Part # 15629 20038 0000062 EXP 12/23

10

ORIGIN ID: BIXA (850) 336-0192

TESTAMERICA PITTSBURGH LAB

301 ALPHA DR

PITTSBURGH, PA 15238

UNITED STATES US

SHIP DATE: 07MAR23

ACTWGT: 67.60 LB

CAD: 6993800/SFE2401

DIMS: 23X14X13 IN

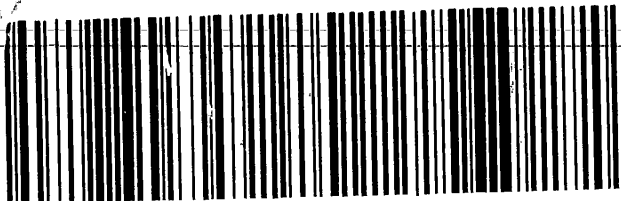
BILL THIRD PARTY

Phone Number

Recipient's Name Please Print

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XN AGCA
 Met# 3954 6846 9087
 MP# 3954 6846 9157
 8 of 12
WED - 08 MAR 10:30A
PRIORITY OVERNIGHT
 15238 PA-US PIT

PT-WI-SR-001 effective 11/8/18
 CF O.I. Initials
 Thermometer ID
 Uncorrected temp 2.5 °C
edex Express
 AN 10110201 1227

10
 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH PA 15238
 (850) 396-0192
 REF: DEPT: PO:
 SHIP DATE: 07MAR23
 ACTWGT: 26.60 LB
 CAD: 6993800/SSFE2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY
 UNITED STATES US

Do Not Lift Using This Tag

Part # 1562912382PWR0631EXF 12/23

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15238 PA-US PIT

XN AGCA

Mstr# 3954 6846 9087 0201

WED - 08 MAR 10:30A
 PRIORITY OVERNIGHT

MPS# 3954 6846 9180

11 of 12



AN1011062012ZF

PT-WI-SR-001 effective 11/9/18

CF O.T Initials Mo

Uncorrected temp Thermometer ID

2.5 18

PITTSBURGH PA 15238

TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR

Part # 15629 (2003) - 04000218EXP 12/23

SHIP DATE: 02MAR23
 ACTWGT: 21.85 LB
 CAD: 6993800/SSF2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY

ORIGIN ID: B1XA (850) 336-0192

TESTAMERICA PITTSBURGH LAB

PITTSBURGH, PA 15238

UNITED STATES US

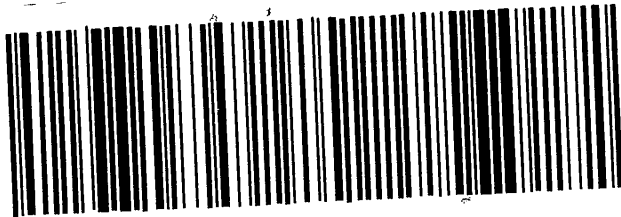
Phone Number

Recipient's Name Please print.

Do Not Lift Using This Tag

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Courier or Driver: Place Astra or Barcoded Label Here



15238 PIT PA-US

XN AGCA

MPS# 3954 6846 9098
 Mstr# 3954 6846 9087
 0263
 2 of 12

WED - 08 MAR 10:30A
 PRIORITY OVERNIGHT

PT-WI-SR-001 effective 11/8/18

AN0110820182Z



CF D.T. Initials
 Uncorrected temp 3.0 °C
 Thermometer ID 18



PITTSBURGH PA 15238

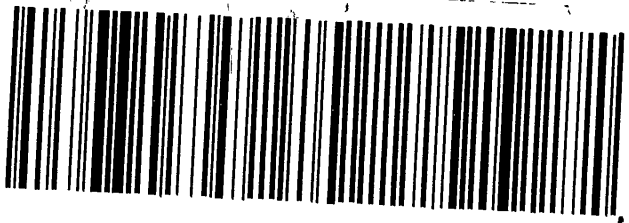
TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR

Part # 1562914882 PRN0623 EXP 12/23

SHIP DATE: 07MAR23
 ACTWGT: 66.65 LB
 CAD: 6993800/SSFE2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY
 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US
 ORIGIN ID: B1XA (850) 336-0192
 REF: (850) 336-0192
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Courier or Driver: Place Astra or Barcoded Label Here



15238 PA-US PIT

XN AGCA

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

1 of 12
TRK# 3954 6846 9087
0201
MASTER

123110110123010123



Uncorrected temp 18.2 °C
Thermometer ID
CF O.L Initials M
PT-MI-SR-001 effective 11/8/18

PITTSBURGH PA 15238

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

SHIP DATE: 07MAR23
ACTWGT: 21.30 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN
PITTSBURGH, PA 15238
UNITED STATES US
ORIGIN ID: B1XA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

Do Not Lift Using This Tag

Part # 15629123032882328EXP 12/23



PA-US
15238
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XN AGCA

MPS# 0269 3954 6846 9102
Mstr# 3954 6846 9087
3 of 12

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

0201



231023011107

Initials *Mo*
C.F.T.
PT-WI-SR-001 effective 11/8/18

Uncorrected temp
Thermometer ID

DEPT:
REF:
PITTSBURGH PA 15238
PO# (850) 396-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238

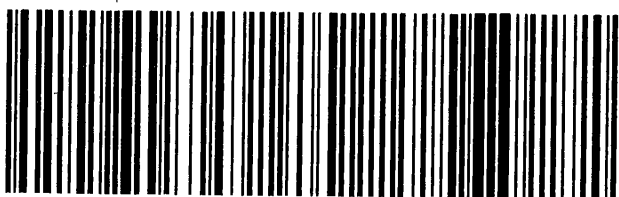
SHIP DATE: 02MAR23
ACTWGT: 62.15 LB
CAD: 6993800/SSF2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

ORIGIN ID: B1KH (850) 396-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

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Courier or Driver: Place Astra or Barcoded Label Here



15238 PA-US PIT

XN AGCA

MPS# 3954 6846 9113
MPS# 3954 6846 9087

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

AR.LOL.L0820.LSP



FedEx
Express

Uncorrected temp _____
 Thermometer ID 18
 Initials CF O.L. mo
 PT-WI-SR-001 effective 11/8/18

PITTSBURGH PA 15238

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

ORIGIN ID: BIK4 (850) 396-0192
 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US

SHIP DATE: 07MAR23
 ACTWGT: 78.15 LB
 CAD: 6993800/SSFE2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY

Do Not Lift Using This Tag

Part # 15629fca3929af478b29EXP 12/23

Do Not Lift Using This Tag

Recipient's Name <i>Please print.</i>	Phone Number
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Dept./Floor/Suite/Room	

ORIGIN ID: BIXA (850) 336-0192
 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US

SHIP DATE: 07MAR23
 ACTWTG: 75.40 LB
 CAD: 6993800/SSFE2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH PA 15238

(850) 336-0192 REF: DEPT:

Uncorrected temp 3.0 °C
 Thermometer ID 18
 CF 0.1 Initials ML
 PT-WI-SR-001 effective 11/8/18



7 of 12
 MPS# 3954 6846 9146
 Mstr# 3954 6846 9087
XN AGCA
 WED - 08 MAR 10:30A
 PRIORITY OVERNIGHT
 15238
 PA-US PIT



Part # 1502974325-0402938EXP 12/23

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Do Not Lift Using This Tag

ORIGIN ID: BIXA (850) 336-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23

ACTING: 58.00 LB

CAD: 6993600/SSFE2401

DIMS: 23x14x13 IN

BILL THIRD PARTY

Part # 15629749364402829EXP 1/2/23

TO

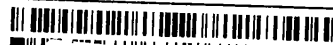
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192

REF:

DEPT:



Uncorrected temp
Thermometer ID

2.2 °C
18

CF 0.1 Initials *MS*

PT-WI-SR-001 effective 11/8/18

FedEx
Express



AN1011100201237

10 of 12

MPS# 3954 6846 9179

Mstr# 3954 6846 9087

0201

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

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15238
PA-US PIT



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Phone Number

ORIGIN ID:BIKA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 69.00 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

Part # 156297248023902 PG 153P 12/23

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192

REF:

DEPT:



Uncorrected temp
Thermometer ID

2.7 °C

CF O.J. Initials Mo.

PT-WI-SR-001 effective 11/8/18



FedEx Express



156297248023902 PG 153P 12/23

5 of 12

MPS# 0263 3954 6846 9124
Mstr# 3954 6846 9087

0201

XN AGCA

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

15238
PA-US PIT



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ORIGIN ID: BIXA (850) 336-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 68.00 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN

BILL THIRD PARTY

Part # 15239123826984053 EXP 12/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192
PH: PO:

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DEPT:



Uncorrected temp
Thermometer ID

25 °C
18

CF Oil Initials mo

PT-WI-SR-001 effective 11/8/18

FedEx
Express



AN1011103201E27

9 of 12

MPS# 0263 3954 6846 9168

Metr# 3954 6846 9087

0201

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

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15238
PA-US PIT



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Recipient's Name *Please print.*

Phone Number

ORIGIN ID: BIXA (850) 336-0192

SHIP DATE: 07MAR23

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

ACTWT: 67.60 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN

PITTSBURGH, PA 15238
UNITED STATES US

BILL THIRD PARTY

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192

REF:

INU:
PO:

DEPT:



Uncorrected temp _____
Thermometer ID _____

2.6 °C
18

CF 0.1

Initials Mo

PT-WI-SR-001 effective 11/8/18

FedEx
Express



AN1011108201227

6 of 12

MPS# 3954 6846 9135

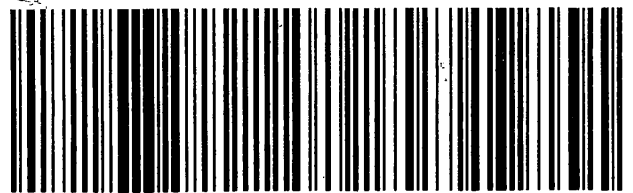
Mstr# 3954 6846 9087

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

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XN AGCA

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PA-US **PIT**



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ORIGIN ID:BIXA (850) 336-0192
 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US

SHIP DATE: 07MAR23
 ACTWT: 76.60 LB
 CAD: 6993800/SSFE2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY

Part # 15629122020102023 BEXP 12/23

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192 REF: UNIT PG: DEPT:



Uncorrected temp 2.5 °C
 Thermometer ID 18

CF 0.1 Initials Mo

PT-WI-SR-001 effective 11/8/18



8 of 12

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

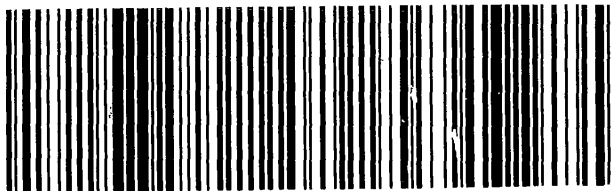
MPS# **3954 6846 9157**

Mstr# **3954 6846 9087**

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15238
 PA-US PIT



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Do Not Lift Using This Tag



Recipient's Name <i>Please print.</i>	Phone Number
ORIGIN ID: BIXA (850) 336-0192 TESTAMERICA PITTSBURGH LAB 301 ALPHA DR PITTSBURGH, PA 15238 UNITED STATES US	SHIP DATE: 07MAR23 ACTWGT: 71.85 LB CAD: 6993800/SSFE2401 DIMS: 23x14x13 IN BILL THIRD PARTY

Part # 156291743254402838EXP 12/23

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192 REF: DEPT:

	Uncorrected temp <u>2.5</u> °C Thermometer ID <u>18</u> CF <u>O</u> Initials <u>Mo</u>	FedEx Express 
PT-WI-SR-001 effective 11/9/18		

11 of 12
MPS# 3954 6846 9180
0263
Mstr# 3954 6846 9087 0201

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



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ORIGIN ID:BIKA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 66.65 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

Part # 1562974286PWRV052 EQP 12/23

TO

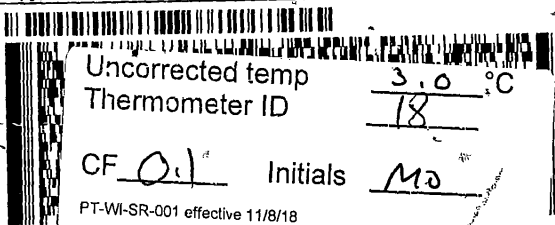
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192
INU:
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REF:

DEPT:



Uncorrected temp
Thermometer ID

3.0 °C
18

CF Oil Initials MD

PT-WI-SR-001 effective 11/8/18

FedEx
Express



AN1011L10201127

2 of 12

MPS# 3954 6846 9098

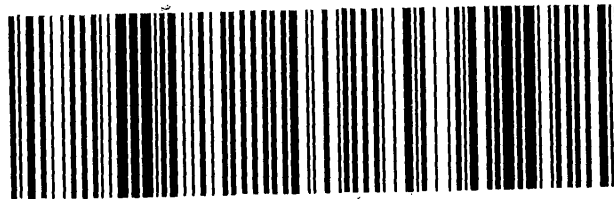
Mstr# 3954 6846 9087

0263

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



Courier or Driver: Place Astra or Barcoded Label Here

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Do Not Lift Using This Tag

Shipper's Name <i>Disca nrint</i>		Phone Number
ORIGIN ID: BIXA (850) 336-0192	SHIP DATE: 07MAR23	Part # 1562914392-RR052-EXP-12/23
TESTAMERICA PITTSBURGH LAB 301 ALPHA DR	ACTWGT: 71.30 LB	
PITTSBURGH, PA 15238 UNITED STATES US	CAD: 6993800/SSFE2401 DIMS: 23x14x13 IN	
	BILL THIRD PARTY	

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238
 (850) 336-0192 REF:

UNCORRECTED TEMP	DEPT:
Thermometer ID	2.7 °C
CF <u>Oil</u> Initials <u>Mo</u>	
PT-WI-SR-001 effective 11/8/18	



1 of 12
 TRK# 0201 **3954 6846 9087**
 ## MASTER ##

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
 PA-US **PIT**



Courier or Driver: Place Astra or Barcoded Label Here

ORIGIN ID: BIXH (850) 336-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 62.15 LB
CAD: 6993800/85FE2401
DIMS: 23x14x13 IN

BILL THIRD PARTY

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238
(850) 336-0192

INU: PO:

REF:

DEPT:



Uncorrected temp
Thermometer ID

3.7 °C

CF Q.I. Initials MO

PT-WI-SR-001 effective 11/8/18

FedEx
Express



3 of 12
MPS# 0263 3954 6846 9102
Mstr# 3954 6846 9087

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

0201

15238
PA-US PIT



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Do Not Lift Using This Tag

ORIGIN ID:BIXA (850) 336-0192
 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US

SHIP DATE: 07MAR23
 ACTWGT: 78.15 LB
 CAD: 6993800/SSFE2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY

Part # 15629F43424R02818EXP 12/23

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192 REF: DEPT:

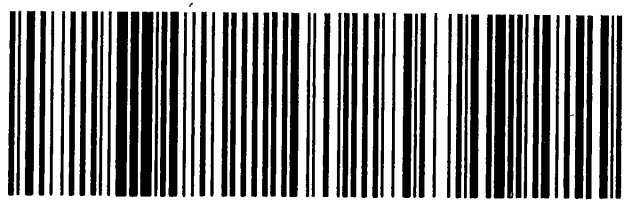


Uncorrected temp 2.3 °C
 Thermometer ID 18
 CF 0.1 Initials MO
 PT-WI-SR-001 effective 11/8/18



4 of 12 WED - 08 MAR 10:30A
 MPS# 0263 3954 6846 9113 PRIORITY OVERNIGHT
 Metr# 3954 6846 9087 0201

XN AGCA 15238
 PA-US PIT



Courier or Driver: Place Astra or Barcoded Label Here

Do Not Lift Using This Tag

Recipient's Name <i>Please print.</i>	Phone Number
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Dept./Floor/Suite/Room	

ORIGIN ID: BIXA (850) 336-0192
 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US

SHIP DATE: 07MAR23
 ACTWTG: 75.40 LB
 CAD: 6993800/SSFE2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY

Part # 1502974325-0402938EXP 12/23

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH PA 15238

(850) 336-0192 REF: DEPT:

Uncorrected temp 3.0 °C
 Thermometer ID 18
 CF 0.1 Initials MM
 PT-WI-SR-001 effective 11/8/18



7 of 12
 MPS# 3954 6846 9146
 Mstr# 3954 6846 9087
XN AGCA
 WED - 08 MAR 10:30A
 PRIORITY OVERNIGHT
 15238
 PA-US PIT



Do Not Lift Using This Tag

ORIGIN ID: BIXA (850) 336-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23

ACTING: 58.00 LB

CAD: 6993600/SSFE2401

DIMS: 23x14x13 IN

BILL THIRD PARTY

Part # 156297493054402829EXP 1/2/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192

REF:

DEPT:



Uncorrected temp
Thermometer ID

2.2 °C
18

CF 0.1 Initials *MS*

PT-WI-SR-001 effective 11/8/18

FedEx
Express



AN1011100201237

10 of 12

MPS# 3954 6846 9179

Mstr# 3954 6846 9087

0201

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15238
PA-US PIT



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Phone Number

ORIGIN ID:BIXA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 69.00 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

Part # 156297200023002001851P 12/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192

REF:

DEPT:



Uncorrected temp
Thermometer ID

2.7 °C
M.O.

CF O.I. Initials

PT-WI-SR-001 effective 11/8/18



FedEx
Express



156297200023002001851P

5 of 12
MPS# 0263

3954 6846 9124
Mstr# 3954 6846 9087

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TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 68.00 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN

BILL THIRD PARTY

Part # 15239123826984053 EXP 12/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192
INV# PO#

REF:

DEPT:



Uncorrected temp
Thermometer ID

25 °C
18

CF Oil Initials mo

PT-WI-SR-001 effective 11/8/18

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9 of 12

MPS# 0263 3954 6846 9168

Metr# 3954 6846 9087

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Recipient's Name *Please print.* Phone Number
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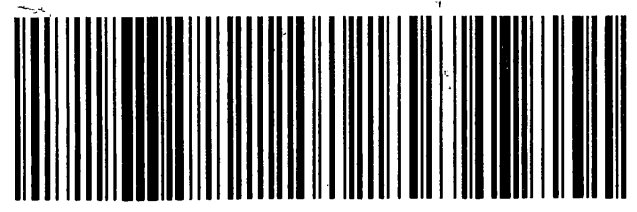
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TESTAMERICA PITTSBURGH LAB ACTWGT: 67.60 LB
301 ALPHA DR CAD: 6993800/SSFE2401
PITTSBURGH, PA 15238 DIMS: 23x14x13 IN
UNITED STATES US BILL THIRD PARTY

Part # 15629242902199025215EXP-12/23

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH PA 15238
(850) 336-0192 REF:
INVT: DEPT:

Uncorrected temp 12.6 °C
Thermometer ID 18
CF 0.1 Initials Mo
PT-WI-SR-001 effective 11/8/18
FedEx Express
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6 of 12 WED - 08 MAR 10:30A
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0263 Mstr# 3954 6846 9087 0201
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ORIGIN ID:BIXA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 76.60 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

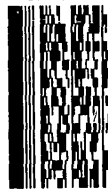
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TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192 REF: UNIT PG: DEPT:



Uncorrected temp 2.5 °C
Thermometer ID 18

CF 0.1 Initials Mo

PT-WI-SR-001 effective 11/8/18

FedEx Express



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8 of 12

MPS# 0263 3954 6846 9157

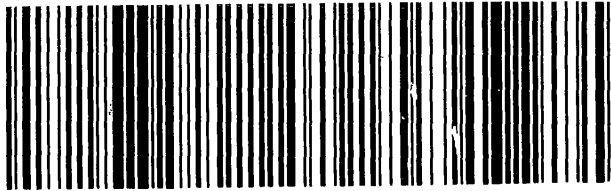
Mstr# 3954 6846 9087

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PRIORITY OVERNIGHT

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PA-US PIT



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Phone Number

ORIGIN ID: BIXA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 71.85 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

Part # 156291743254402838EXP 12/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192

REF:

DEPT:

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Uncorrected temp _____
Thermometer ID _____

2.5 C
B

CF O. J. Initials Mo

PT-WI-SR-001 effective 11/9/18

FedEx
Express



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11 of 12

MPS# 3954 6846 9180

Mstr# 3954 6846 9087

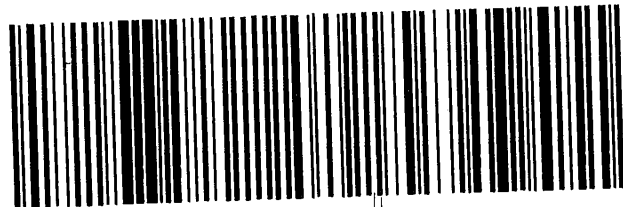
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PA-US PIT



ORIGIN ID:BIKA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 66.65 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

Part # 1562974286PWRV052 EQP 12/23

TO

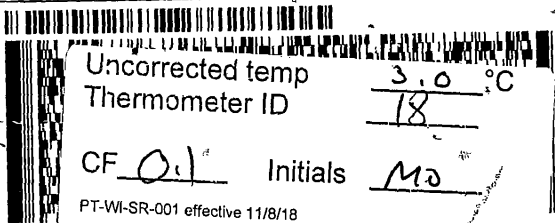
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192
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PO:

REF:

DEPT:



Uncorrected temp
Thermometer ID

3.0 °C
18

CF Oil Initials MD

PT-WI-SR-001 effective 11/8/18

FedEx
Express



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2 of 12

MPS# 3954 6846 9098

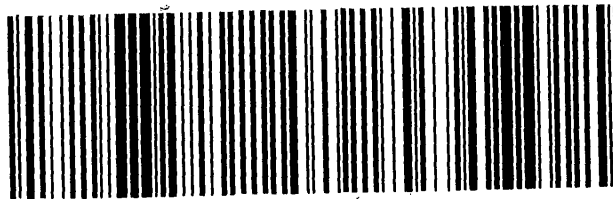
Mstr# 3954 6846 9087

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PRIORITY OVERNIGHT

XN AGCA

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Shipper's Name <i>Diasea nrint</i>		Phone Number
ORIGIN ID: BIXA (850) 336-0192	TESTAMERICA PITTSBURGH LAB 301 ALPHA DR PITTSBURGH, PA 15238 UNITED STATES US	SHIP DATE: 07MAR23 ACTWGT: 71.30 LB CAD: 6993800/SSFE2401 DIMS: 23x14x13 IN BILL THIRD PARTY

Part # 1562914392-RR052-EXP-12/23

TO
**TESTAMERICA PITTSBURGH LAB
301 ALPHA DR**

PITTSBURGH PA 15238
(850) 336-0192 REF:

UNCORRECTED TEMP Thermometer ID	DEPT: <u>2.7</u> °C <u>18</u>	 
CF <u>Oil</u> Initials <u>Mo</u>	PT-WI-SR-001 effective 11/8/18	

1 of 12
TRK# 0201 **3954 6846 9087**
MASTER

**WED - 08 MAR 10:30A
PRIORITY OVERNIGHT**

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**15238
PA-US PIT**



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ORIGIN ID: BIXH (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 62.15 LB
CAD: 6993800/85FE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238
(850) 336-0192
REF: DEPT:

Uncorrected temp
Thermometer ID
31.7 °C

CF Q.I. Initials MO
PT-WI-SR-001 effective 11/8/18



3 of 12
MPS# 0263 3954 6846 9102
Mstr# 3954 6846 9087

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

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15238
PA-US PIT



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ORIGIN ID:BIXA (850) 336-0192 SHIP DATE: 07MAR23
TESTAMERICA PITTSBURGH LAB ACTWGT: 78.15 LB
301 ALPHA DR CAD: 6993800/SSFE2401
PITTSBURGH, PA 15238 DIMS: 23x14x13 IN
UNITED STATES US BILL THIRD PARTY

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192 REF: DEPT:



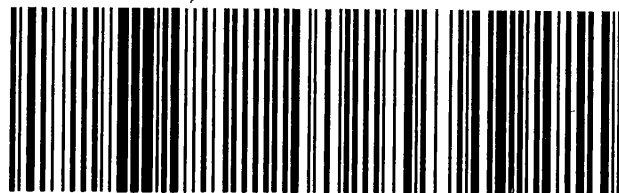
Uncorrected temp 2.3 °C
Thermometer ID 18
CF Oel Initials MO
PT-WI-SR-001 effective 11/8/18



4 of 12 WED - 08 MAR 10:30A
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Part # 1562924924902010237-EXP 12/23

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-153194-1

Login Number: 153194

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Robert (Trey) Singleton
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Generated 4/12/2023 1:57:05 PM

JOB DESCRIPTION

Plant Watson Surface Water

JOB NUMBER

180-153194-2

Eurofins Pittsburgh

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Pittsburgh and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Pittsburgh Project Manager or designee who has signed this report.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



Authorized for release by
Shali Brown, Project Manager II
Shali.Brown@et.eurofinsus.com
(615)301-5031

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Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Definitions/Glossary	9
Certification Summary	10
Sample Summary	11
Method Summary	12
Lab Chronicle	13
Client Sample Results	29
QC Sample Results	79
QC Association Summary	84
Chain of Custody	87
Receipt Checklists	132

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Job ID: 180-153194-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-153194-2

Receipt

The samples were received on 3/8/2023 9:28 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 11 coolers at receipt time were 2.4°C, 2.6°C, 2.6°C, 2.6°C, 2.7°C, 2.8°C, 2.8°C, 3.1°C, 3.1°C, 3.3°C and 3.8°C

Receipt Exceptions

Sample Tech observed that Total and Dissolved containers per sample were not used consistently. Sample Tech was able to determine the Total and Dissolved Sample due to Dissolved samples being labeled "FF." Sample Tech logged and labeled Containers by that distinction. SW-1-1' (180-153194-1), SW-1-1' (180-153194-2), SW-1-7' (180-153194-3), SW-1-7' (180-153194-4), SW-2-1' (180-153194-5), SW-2-1' (180-153194-6), SW-2-7' (180-153194-7), SW-2-7' (180-153194-8), SW-3-1' (180-153194-9), SW-3-1' (180-153194-10), SW-3-4' (180-153194-11), SW-3-4' (180-153194-12), SW-4-1.5 (180-153194-13), SW-4-1.5 (180-153194-14), SW-5-1' (180-153194-15), SW-5-1' (180-153194-16), SW-5-13' (180-153194-17), SW-5-13' (180-153194-18), SW-6-1' (180-153194-19), SW-6-1' (180-153194-20), SW-6-9.5 (180-153194-21), SW-6-9.5 (180-153194-22), SW-9-1' (180-153194-23), SW-9-1' (180-153194-24), SW-9-4' (180-153194-25), SW-9-4' (180-153194-26), SW-10-2' (180-153194-27), SW-10-2' (180-153194-28), SW-11-1' (180-153194-29), SW-11-1' (180-153194-30), SW-12-1' (180-153194-31), SW-12-1' (180-153194-32), SW-13-1' (180-153194-33), SW-13-1' (180-153194-34), SW-14-1.5 (180-153194-35), SW-14-1.5 (180-153194-36), SW-15-1.5 (180-153194-37), SW-15-1.5 (180-153194-38), SW-16-1.5 (180-153194-39), SW-16-1.5 (180-153194-40), EB-01 (180-153194-41), SW-17-1' (180-153194-42), SW-17-1' (180-153194-43), FB-01 (180-153194-44), DUP-01 (180-153194-45), DUP-01 (180-153194-46), DUP-02 (180-153194-47), DUP-02 (180-153194-48), DUP-03 (180-153194-49) and DUP-03 (180-153194-50)

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 Prep Batch 160-603989The following samples were prepared at a reduced aliquot due to Matrix: SW-3-4' (180-153194-11), SW-3-4' (180-153194-12), SW-4-1.5 (180-153194-13), SW-4-1.5 (180-153194-14), SW-5-1' (180-153194-15), SW-5-1' (180-153194-16), SW-5-13' (180-153194-17), SW-5-13' (180-153194-18), SW-6-1' (180-153194-19), SW-6-1' (180-153194-20), SW-6-9.5 (180-153194-21), SW-6-9.5 (180-153194-22), SW-9-1' (180-153194-23), SW-9-1' (180-153194-24), SW-9-4' (180-153194-25), SW-9-4' (180-153194-26), SW-10-2' (180-153194-27), SW-10-2' (180-153194-28), SW-11-1' (180-153194-29) and SW-11-1' (180-153194-30). 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 160-603997The following samples were prepared at a reduced aliquot due to Matrix: SW-12-1' (180-153194-31), SW-12-1' (180-153194-32), SW-13-1' (180-153194-33), SW-13-1' (180-153194-34), SW-14-1.5 (180-153194-35), SW-14-1.5 (180-153194-36), SW-15-1.5 (180-153194-37), SW-15-1.5 (180-153194-38), SW-16-1.5 (180-153194-39), SW-16-1.5 (180-153194-40), SW-17-1' (180-153194-42), SW-17-1' (180-153194-43), DUP-01 (180-153194-45), DUP-01 (180-153194-46), DUP-02 (180-153194-47), DUP-02 (180-153194-48), DUP-03 (180-153194-49) and DUP-03 (180-153194-50). 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 160-603997Insufficient sample volume was available to perform a sample duplicate for the following samples: EB-01 (180-153194-41) and FB-01 (180-153194-44). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9315_Ra226: Radium-226 batch 603854Any 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.

Method 9315_Ra226: Radium-226 batch 603997Any 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-12-1' (180-153194-31), SW-12-1' (180-153194-32), SW-13-1' (180-153194-33), SW-13-1' (180-153194-34), SW-14-1.5 (180-153194-35), SW-14-1.5 (180-153194-36), SW-15-1.5 (180-153194-37), SW-15-1.5 (180-153194-38), SW-16-1.5 (180-153194-39), SW-16-1.5 (180-153194-40), EB-01 (180-153194-41), SW-17-1' (180-153194-42), SW-17-1' (180-153194-43), FB-01 (180-153194-44), DUP-01 (180-153194-45), DUP-01 (180-153194-46),

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Job ID: 180-153194-2 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

DUP-02 (180-153194-47), DUP-02 (180-153194-48), DUP-03 (180-153194-49), DUP-03 (180-153194-50), (LCS 160-603997/2-A), (LCSD 160-603997/3-A) and (MB 160-603997/1-A)

Method 9315_Ra226: Prep batch 160-603989: 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-3-4' (180-153194-11), SW-3-4' (180-153194-12), SW-4-1.5 (180-153194-13), SW-4-1.5 (180-153194-14), SW-5-1' (180-153194-15), SW-5-1' (180-153194-16), SW-5-13' (180-153194-17), SW-5-13' (180-153194-18), SW-6-1' (180-153194-19), SW-6-1' (180-153194-20), SW-6-9.5 (180-153194-21), SW-6-9.5 (180-153194-22), SW-9-1' (180-153194-23), SW-9-1' (180-153194-24), SW-9-4' (180-153194-25), SW-9-4' (180-153194-26), SW-10-2' (180-153194-27), SW-10-2' (180-153194-28), SW-11-1' (180-153194-29), SW-11-1' (180-153194-30), (LCS 160-603989/2-A), (LCSD 160-603989/3-A) and (MB 160-603989/1-A)

Method 9315_Ra226: Radium-226 Prep Batch 160-603989 The following samples were prepared at a reduced aliquot due to Matrix: SW-3-4' (180-153194-11), SW-3-4' (180-153194-12), SW-4-1.5 (180-153194-13), SW-4-1.5 (180-153194-14), SW-5-1' (180-153194-15), SW-5-1' (180-153194-16), SW-5-13' (180-153194-17), SW-5-13' (180-153194-18), SW-6-1' (180-153194-19), SW-6-1' (180-153194-20), SW-6-9.5 (180-153194-21), SW-6-9.5 (180-153194-22), SW-9-1' (180-153194-23), SW-9-1' (180-153194-24), SW-9-4' (180-153194-25), SW-9-4' (180-153194-26), SW-10-2' (180-153194-27), SW-10-2' (180-153194-28), SW-11-1' (180-153194-29) and SW-11-1' (180-153194-30). 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 160-603997 The following samples were prepared at a reduced aliquot due to Matrix: SW-12-1' (180-153194-31), SW-12-1' (180-153194-32), SW-13-1' (180-153194-33), SW-13-1' (180-153194-34), SW-14-1.5 (180-153194-35), SW-14-1.5 (180-153194-36), SW-15-1.5 (180-153194-37), SW-15-1.5 (180-153194-38), SW-16-1.5 (180-153194-39), SW-16-1.5 (180-153194-40), SW-17-1' (180-153194-42), SW-17-1' (180-153194-43), DUP-01 (180-153194-45), DUP-01 (180-153194-46), DUP-02 (180-153194-47), DUP-02 (180-153194-48), DUP-03 (180-153194-49) and DUP-03 (180-153194-50). 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 160-603997 Insufficient sample volume was available to perform a sample duplicate for the following samples: EB-01 (180-153194-41) and FB-01 (180-153194-44). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9315_Ra226: Radium-226 batch 603854 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.

Method 9315_Ra226: Radium-226 batch 603997 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-12-1' (180-153194-31), SW-12-1' (180-153194-32), SW-13-1' (180-153194-33), SW-13-1' (180-153194-34), SW-14-1.5 (180-153194-35), SW-14-1.5 (180-153194-36), SW-15-1.5 (180-153194-37), SW-15-1.5 (180-153194-38), SW-16-1.5 (180-153194-39), SW-16-1.5 (180-153194-40), EB-01 (180-153194-41), SW-17-1' (180-153194-42), SW-17-1' (180-153194-43), FB-01 (180-153194-44), DUP-01 (180-153194-45), DUP-01 (180-153194-46), DUP-02 (180-153194-47), DUP-02 (180-153194-48), DUP-03 (180-153194-49), DUP-03 (180-153194-50), (LCS 160-603997/2-A), (LCSD 160-603997/3-A) and (MB 160-603997/1-A)

Method 9315_Ra226: Prep batch 160-603989: 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-3-4' (180-153194-11), SW-3-4' (180-153194-12), SW-4-1.5 (180-153194-13), SW-4-1.5 (180-153194-14), SW-5-1' (180-153194-15), SW-5-1' (180-153194-16), SW-5-13' (180-153194-17), SW-5-13' (180-153194-18), SW-6-1' (180-153194-19), SW-6-1' (180-153194-20), SW-6-9.5 (180-153194-21), SW-6-9.5 (180-153194-22), SW-9-1' (180-153194-23), SW-9-1' (180-153194-24), SW-9-4' (180-153194-25), SW-9-4' (180-153194-26), SW-10-2' (180-153194-27), SW-10-2' (180-153194-28), SW-11-1' (180-153194-29), SW-11-1' (180-153194-30), (LCS 160-603989/2-A), (LCSD 160-603989/3-A) and (MB 160-603989/1-A)

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Job ID: 180-153194-2 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

Method 9320_Ra228: Radium-228 Prep Batch 160-603994 The following samples were prepared at a reduced aliquot due to Matrix: SW-3-4' (180-153194-11), SW-3-4' (180-153194-12), SW-4-1.5 (180-153194-13), SW-4-1.5 (180-153194-14), SW-5-1' (180-153194-15), SW-5-1' (180-153194-16), SW-5-13' (180-153194-17), SW-5-13' (180-153194-18), SW-6-1' (180-153194-19), SW-6-1' (180-153194-20), SW-6-9.5 (180-153194-21), SW-6-9.5 (180-153194-22), SW-9-1' (180-153194-23), SW-9-1' (180-153194-24), SW-9-4' (180-153194-25), SW-9-4' (180-153194-26), SW-10-2' (180-153194-27), SW-10-2' (180-153194-28), SW-11-1' (180-153194-29) and SW-11-1' (180-153194-30). 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 160-603999 The following samples were prepared at a reduced aliquot due to Matrix: SW-12-1' (180-153194-31), SW-12-1' (180-153194-32), SW-13-1' (180-153194-33), SW-13-1' (180-153194-34), SW-14-1.5 (180-153194-35), SW-14-1.5 (180-153194-36), SW-15-1.5 (180-153194-37), SW-15-1.5 (180-153194-38), SW-16-1.5 (180-153194-39), SW-16-1.5 (180-153194-40), SW-17-1' (180-153194-42), SW-17-1' (180-153194-43), DUP-01 (180-153194-45), DUP-01 (180-153194-46), DUP-02 (180-153194-47), DUP-02 (180-153194-48), DUP-03 (180-153194-49) and DUP-03 (180-153194-50). 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 160-603999 Insufficient sample volume was available to perform a sample duplicate for the following samples: EB-01 (180-153194-41) and FB-01 (180-153194-44). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9320_Ra228: Radium-228 batch 603857 The LCS recovered at (128%). 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 (62-148%) per method requirements. The LCS passes, no further action is required (LCSD 160-603857/25-A)

Method 9320_Ra228: Radium-228 batch 603857 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' (180-153194-1), SW-1-1' (180-153194-2), SW-1-7' (180-153194-3), SW-1-7' (180-153194-4), SW-2-1' (180-153194-5), SW-2-1' (180-153194-6), SW-2-7' (180-153194-7), SW-2-7' (180-153194-8), SW-3-1' (180-153194-9), SW-3-1' (180-153194-10), (LCS 160-603857/2-A), (LCSD 160-603857/25-A), (MB 160-603857/1-A), (570-129852-R-1-B), (570-129852-L-1-C MS) and (570-129852-L-1-D MSD)

Method 9320_Ra228: Radium-228 batch 603994 The 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-5-1' (180-153194-15), SW-5-13' (180-153194-17), SW-6-1' (180-153194-19) and SW-9-1' (180-153194-23). Analytical results are reported with the detection limit achieved.

Method 9320_Ra228: Radium-228 batch 603994 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-3-4' (180-153194-11), SW-3-4' (180-153194-12), SW-4-1.5 (180-153194-13), SW-4-1.5 (180-153194-14), SW-5-1' (180-153194-15), SW-5-1' (180-153194-16), SW-5-13' (180-153194-17), SW-5-13' (180-153194-18), SW-6-1' (180-153194-19), SW-6-1' (180-153194-20), SW-6-9.5 (180-153194-21), SW-6-9.5 (180-153194-22), SW-9-1' (180-153194-23), SW-9-1' (180-153194-24), SW-9-4' (180-153194-25), SW-9-4' (180-153194-26), SW-10-2' (180-153194-27), SW-10-2' (180-153194-28), SW-11-1' (180-153194-29), SW-11-1' (180-153194-30), (LCS 160-603994/2-A), (LCSD 160-603994/3-A) and (MB 160-603994/1-A)

Method 9320_Ra228: Radium-228 batch 603999 The detection goal was not met for the following sample(s). Samples were prepped at a reduced volume due to the presence of matrix interferences. Analytical results are reported with the detection limit achieved. SW-12-1' (180-153194-31)

Method 9320_Ra228: Radium-228 batch 603999 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-12-1' (180-153194-31), SW-12-1' (180-153194-32),

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Job ID: 180-153194-2 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

SW-13-1' (180-153194-33), SW-13-1' (180-153194-34), SW-14-1.5 (180-153194-35), SW-14-1.5 (180-153194-36), SW-15-1.5 (180-153194-37), SW-15-1.5 (180-153194-38), SW-16-1.5 (180-153194-39), SW-16-1.5 (180-153194-40), EB-01 (180-153194-41), SW-17-1' (180-153194-42), SW-17-1' (180-153194-43), FB-01 (180-153194-44), DUP-01 (180-153194-45), DUP-01 (180-153194-46), DUP-02 (180-153194-47), DUP-02 (180-153194-48), DUP-03 (180-153194-49), DUP-03 (180-153194-50), (LCS 160-603999/2-A), (LCSD 160-603999/3-A) and (MB 160-603999/1-A)

Method 9320_Ra228: Radium-228 Prep Batch 160-603994The following samples were prepared at a reduced aliquot due to Matrix: SW-3-4' (180-153194-11), SW-3-4' (180-153194-12), SW-4-1.5 (180-153194-13), SW-4-1.5 (180-153194-14), SW-5-1' (180-153194-15), SW-5-1' (180-153194-16), SW-5-13' (180-153194-17), SW-5-13' (180-153194-18), SW-6-1' (180-153194-19), SW-6-1' (180-153194-20), SW-6-9.5 (180-153194-21), SW-6-9.5 (180-153194-22), SW-9-1' (180-153194-23), SW-9-1' (180-153194-24), SW-9-4' (180-153194-25), SW-9-4' (180-153194-26), SW-10-2' (180-153194-27), SW-10-2' (180-153194-28), SW-11-1' (180-153194-29) and SW-11-1' (180-153194-30). 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 160-603999The following samples were prepared at a reduced aliquot due to Matrix: SW-12-1' (180-153194-31), SW-12-1' (180-153194-32), SW-13-1' (180-153194-33), SW-13-1' (180-153194-34), SW-14-1.5 (180-153194-35), SW-14-1.5 (180-153194-36), SW-15-1.5 (180-153194-37), SW-15-1.5 (180-153194-38), SW-16-1.5 (180-153194-39), SW-16-1.5 (180-153194-40), SW-17-1' (180-153194-42), SW-17-1' (180-153194-43), DUP-01 (180-153194-45), DUP-01 (180-153194-46), DUP-02 (180-153194-47), DUP-02 (180-153194-48), DUP-03 (180-153194-49) and DUP-03 (180-153194-50). 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 160-603999Insufficient sample volume was available to perform a sample duplicate for the following samples: EB-01 (180-153194-41) and FB-01 (180-153194-44). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method 9320_Ra228: Radium-228 batch 603857The LCS recovered at (128%). 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 (62-148%) per method requirements. The LCS passes, no further action is required (LCSD 160-603857/25-A)

Method 9320_Ra228: Radium-228 batch 603857Any 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' (180-153194-1), SW-1-1' (180-153194-2), SW-1-7' (180-153194-3), SW-1-7' (180-153194-4), SW-2-1' (180-153194-5), SW-2-1' (180-153194-6), SW-2-7' (180-153194-7), SW-2-7' (180-153194-8), SW-3-1' (180-153194-9), SW-3-1' (180-153194-10), (LCS 160-603857/2-A), (LCSD 160-603857/25-A), (MB 160-603857/1-A), (570-129852-R-1-B), (570-129852-L-1-C MS) and (570-129852-L-1-D MSD)

Method 9320_Ra228: Radium-228 batch 603994The 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-5-1' (180-153194-15), SW-5-13' (180-153194-17), SW-6-1' (180-153194-19) and SW-9-1' (180-153194-23). Analytical results are reported with the detection limit achieved.

Method 9320_Ra228: Radium-228 batch 603994Any 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-3-4' (180-153194-11), SW-3-4' (180-153194-12), SW-4-1.5 (180-153194-13), SW-4-1.5 (180-153194-14), SW-5-1' (180-153194-15), SW-5-1' (180-153194-16), SW-5-13' (180-153194-17), SW-5-13' (180-153194-18), SW-6-1' (180-153194-19), SW-6-1' (180-153194-20), SW-6-9.5 (180-153194-21), SW-6-9.5 (180-153194-22), SW-9-1' (180-153194-23), SW-9-1' (180-153194-24), SW-9-4' (180-153194-25), SW-9-4' (180-153194-26), SW-10-2' (180-153194-27), SW-10-2' (180-153194-28), SW-11-1' (180-153194-29), SW-11-1' (180-153194-30), (LCS 160-603994/2-A), (LCSD 160-603994/3-A) and (MB 160-603994/1-A)

Method 9320_Ra228: Radium-228 batch 603999The detection goal was not met for the following sample(s). Samples were prepped at a reduced volume due to the presence of matrix interferences. Analytical results are reported with the detection limit achieved. SW-12-1'

Case Narrative

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Job ID: 180-153194-2 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

(180-153194-31)

Method 9320_Ra228: Radium-228 batch 603999Any 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-12-1' (180-153194-31), SW-12-1' (180-153194-32), SW-13-1' (180-153194-33), SW-13-1' (180-153194-34), SW-14-1.5 (180-153194-35), SW-14-1.5 (180-153194-36), SW-15-1.5 (180-153194-37), SW-15-1.5 (180-153194-38), SW-16-1.5 (180-153194-39), SW-16-1.5 (180-153194-40), EB-01 (180-153194-41), SW-17-1' (180-153194-42), SW-17-1' (180-153194-43), FB-01 (180-153194-44), DUP-01 (180-153194-45), DUP-01 (180-153194-46), DUP-02 (180-153194-47), DUP-02 (180-153194-48), DUP-03 (180-153194-49), DUP-03 (180-153194-50), (LCS 160-603999/2-A), (LCSD 160-603999/3-A) and (MB 160-603999/1-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Rad

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Definitions/Glossary

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

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 Surface Water

Job ID: 180-153194-2

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-23
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-23
Florida	NELAP	E87689	06-30-23
HI - RadChem Recognition	State	n/a	06-30-23
Illinois	NELAP	200023	11-30-23
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-23
Kentucky (DW)	State	KY90125	12-31-23
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-23
Louisiana (All)	NELAP	04080	06-30-23
Louisiana (DW)	State	LA011	12-31-23
Maryland	State	310	09-30-23
MI - RadChem Recognition	State	9005	06-30-23
Missouri	State	780	06-30-25
Nevada	State	MO000542020-1	07-31-23
New Jersey	NELAP	MO002	06-30-23
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-23
North Dakota	State	R-207	06-30-23
Oklahoma	NELAP	9997	08-31-23
Oregon	NELAP	4157	09-01-23
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-23
Texas	NELAP	T104704193	07-31-23
US Fish & Wildlife	US Federal Programs	058448	07-31-23
USDA	US Federal Programs	P330-17-00028	06-11-23
Utah	NELAP	MO000542021-14	07-31-23
Virginia	NELAP	10310	06-14-23
Washington	State	C592	08-30-23
West Virginia DEP	State	381	10-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-153194-1	SW-1-1'	Water	03/06/23 17:39	03/08/23 09:28
180-153194-2	SW-1-1'	Water	03/06/23 17:56	03/08/23 09:28
180-153194-3	SW-1-7'	Water	03/06/23 18:13	03/08/23 09:28
180-153194-4	SW-1-7'	Water	03/06/23 18:25	03/08/23 09:28
180-153194-5	SW-2-1'	Water	03/06/23 16:50	03/08/23 09:28
180-153194-6	SW-2-1'	Water	03/06/23 17:03	03/08/23 09:28
180-153194-7	SW-2-7'	Water	03/06/23 17:14	03/08/23 09:28
180-153194-8	SW-2-7'	Water	03/06/23 17:23	03/08/23 09:28
180-153194-9	SW-3-1'	Water	03/06/23 09:12	03/08/23 09:28
180-153194-10	SW-3-1'	Water	03/06/23 09:25	03/08/23 09:28
180-153194-11	SW-3-4'	Water	03/06/23 09:39	03/08/23 09:28
180-153194-12	SW-3-4'	Water	03/06/23 09:50	03/08/23 09:28
180-153194-13	SW-4-1.5	Water	03/06/23 11:37	03/08/23 09:28
180-153194-14	SW-4-1.5	Water	03/06/23 11:45	03/08/23 09:28
180-153194-15	SW-5-1'	Water	03/06/23 08:03	03/08/23 09:28
180-153194-16	SW-5-1'	Water	03/06/23 08:19	03/08/23 09:28
180-153194-17	SW-5-13'	Water	03/06/23 08:35	03/08/23 09:28
180-153194-18	SW-5-13'	Water	03/06/23 08:53	03/08/23 09:28
180-153194-19	SW-6-1'	Water	03/06/23 09:21	03/08/23 09:28
180-153194-20	SW-6-1'	Water	03/06/23 09:38	03/08/23 09:28
180-153194-21	SW-6-9.5	Water	03/06/23 09:53	03/08/23 09:28
180-153194-22	SW-6-9.5	Water	03/06/23 10:10	03/08/23 09:28
180-153194-23	SW-9-1'	Water	03/06/23 13:06	03/08/23 09:28
180-153194-24	SW-9-1'	Water	03/06/23 13:22	03/08/23 09:28
180-153194-25	SW-9-4'	Water	03/06/23 13:31	03/08/23 09:28
180-153194-26	SW-9-4'	Water	03/06/23 13:45	03/08/23 09:28
180-153194-27	SW-10-2'	Water	03/06/23 12:31	03/08/23 09:28
180-153194-28	SW-10-2'	Water	03/06/23 12:48	03/08/23 09:28
180-153194-29	SW-11-1'	Water	03/06/23 12:08	03/08/23 09:28
180-153194-30	SW-11-1'	Water	03/06/23 11:51	03/08/23 09:28
180-153194-31	SW-12-1'	Water	03/06/23 10:42	03/08/23 09:28
180-153194-32	SW-12-1'	Water	03/06/23 11:12	03/08/23 09:28
180-153194-33	SW-13-1'	Water	03/06/23 12:21	03/08/23 09:28
180-153194-34	SW-13-1'	Water	03/06/23 12:39	03/08/23 09:28
180-153194-35	SW-14-1.5	Water	03/06/23 13:14	03/08/23 09:28
180-153194-36	SW-14-1.5	Water	03/06/23 13:29	03/08/23 09:28
180-153194-37	SW-15-1.5	Water	03/06/23 13:50	03/08/23 09:28
180-153194-38	SW-15-1.5	Water	03/06/23 14:10	03/08/23 09:28
180-153194-39	SW-16-1.5	Water	03/06/23 14:48	03/08/23 09:28
180-153194-40	SW-16-1.5	Water	03/06/23 15:08	03/08/23 09:28
180-153194-41	EB-01	Water	03/06/23 08:16	03/08/23 09:28
180-153194-42	SW-17-1'	Water	03/06/23 10:38	03/08/23 09:28
180-153194-43	SW-17-1'	Water	03/06/23 10:57	03/08/23 09:28
180-153194-44	FB-01	Water	03/06/23 08:13	03/08/23 09:28
180-153194-45	DUP-01	Water	03/06/23 11:21	03/08/23 09:28
180-153194-46	DUP-01	Water	03/06/23 11:39	03/08/23 09:28
180-153194-47	DUP-02	Water	03/06/23 16:39	03/08/23 09:28
180-153194-48	DUP-02	Water	03/06/23 16:56	03/08/23 09:28
180-153194-49	DUP-03	Water	03/06/23 09:42	03/08/23 09:28
180-153194-50	DUP-03	Water	03/06/23 10:12	03/08/23 09:28

Method Summary

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	EET SL
Ra226_Ra228 (D)	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-1-1'
Date Collected: 03/06/23 17:39
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-1
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			741.82 mL	1.0 g	603854	03/16/23 07:58	DJP	EET SL
Total/NA	Analysis	9315		1			606587	04/07/23 10:47	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			741.82 mL	1.0 g	603857	03/16/23 09:45	DJP	EET SL
Total/NA	Analysis	9320		1			605623	03/30/23 12:09	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			607002	04/11/23 23:03	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-1-1'
Date Collected: 03/06/23 17:56
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-2
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			755.82 mL	1.0 g	603854	03/16/23 07:58	DJP	EET SL
Dissolved	Analysis	9315		1			606587	04/07/23 10:47	FLC	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			755.82 mL	1.0 g	603857	03/16/23 09:45	DJP	EET SL
Dissolved	Analysis	9320		1			605623	03/30/23 12:11	FLC	EET SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-1-7'
Date Collected: 03/06/23 18:13
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-3
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			758.24 mL	1.0 g	603854	03/16/23 07:58	DJP	EET SL
Total/NA	Analysis	9315		1			606582	04/07/23 10:48	EMH	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			758.24 mL	1.0 g	603857	03/16/23 09:45	DJP	EET SL
Total/NA	Analysis	9320		1			605623	03/30/23 12:11	FLC	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			607002	04/11/23 23:03	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-1-7'
Date Collected: 03/06/23 18:25
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-4
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			753.37 mL	1.0 g	603854	03/16/23 07:58	DJP	EET SL
Dissolved	Analysis	9315		1			606563	04/07/23 13:31	EMH	EET SL
Instrument ID: GFPCRED										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-1-7'
Date Collected: 03/06/23 18:25
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-4
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_0			753.37 mL	1.0 g	603857	03/16/23 09:45	DJP	EET SL
Dissolved	Analysis	9320		1			605624	03/30/23 12:15	FLC	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-2-1'
Date Collected: 03/06/23 16:50
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-5
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			748.90 mL	1.0 g	603854	03/16/23 07:58	DJP	EET SL
Total/NA	Analysis	9315		1			606563	04/07/23 13:32	EMH	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			748.90 mL	1.0 g	603857	03/16/23 09:45	DJP	EET SL
Total/NA	Analysis	9320		1			605624	03/30/23 12:15	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			607002	04/11/23 23:03	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-2-1'
Date Collected: 03/06/23 17:03
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-6
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			749.35 mL	1.0 g	603854	03/16/23 07:58	DJP	EET SL
Dissolved	Analysis	9315		1			606563	04/07/23 13:32	EMH	EET SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			749.35 mL	1.0 g	603857	03/16/23 09:45	DJP	EET SL
Dissolved	Analysis	9320		1			605624	03/30/23 12:15	FLC	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-2-7'
Date Collected: 03/06/23 17:14
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-7
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			760.27 mL	1.0 g	603854	03/16/23 07:58	DJP	EET SL
Total/NA	Analysis	9315		1			606563	04/07/23 13:32	EMH	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			760.27 mL	1.0 g	603857	03/16/23 09:45	DJP	EET SL
Total/NA	Analysis	9320		1			605624	03/30/23 12:15	FLC	EET SL
Instrument ID: GFPCBLUE										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-2-7'
Date Collected: 03/06/23 17:14
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-7
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			607002	04/11/23 23:03	EMH	EET SL

Client Sample ID: SW-2-7'
Date Collected: 03/06/23 17:23
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-8
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			753.60 mL	1.0 g	603854	03/16/23 07:58	DJP	EET SL
Dissolved	Analysis	9315		1			606587	04/07/23 13:34	FLC	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			753.60 mL	1.0 g	603857	03/16/23 09:45	DJP	EET SL
Dissolved	Analysis	9320		1			605624	03/30/23 12:15	FLC	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-3-1'
Date Collected: 03/06/23 09:12
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-9
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			748.20 mL	1.0 g	603854	03/16/23 07:58	DJP	EET SL
Total/NA	Analysis	9315		1			606587	04/07/23 13:34	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			748.20 mL	1.0 g	603857	03/16/23 09:45	DJP	EET SL
Total/NA	Analysis	9320		1			605624	03/30/23 12:15	FLC	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			607002	04/11/23 23:03	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-3-1'
Date Collected: 03/06/23 09:25
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-10
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			753.32 mL	1.0 g	603854	03/16/23 07:58	DJP	EET SL
Dissolved	Analysis	9315		1	1.0 mL	1.0 mL	606587	04/07/23 13:34	FLC	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			753.32 mL	1.0 g	603857	03/16/23 09:45	DJP	EET SL
Dissolved	Analysis	9320		1			605624	03/30/23 12:16	FLC	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-3-4'
Date Collected: 03/06/23 09:39
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-11
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			741.94 mL	1.0 g	603989	03/17/23 08:44	DJP	EET SL
Total/NA	Analysis	9315		1			606893	04/11/23 12:12	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			741.94 mL	1.0 g	603994	03/17/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			605834	04/03/23 12:36	EMH	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			607002	04/11/23 23:03	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-3-4'
Date Collected: 03/06/23 09:50
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-12
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			754.16 mL	1.0 g	603989	03/17/23 08:44	DJP	EET SL
Dissolved	Analysis	9315		1			606893	04/11/23 12:12	SCB	EET SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			754.16 mL	1.0 g	603994	03/17/23 09:25	DJP	EET SL
Dissolved	Analysis	9320		1			605834	04/03/23 12:36	EMH	EET SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-4-1.5
Date Collected: 03/06/23 11:37
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-13
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			746.46 mL	1.0 g	603989	03/17/23 08:44	DJP	EET SL
Total/NA	Analysis	9315		1			606893	04/11/23 12:12	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			746.46 mL	1.0 g	603994	03/17/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			605834	04/03/23 12:36	EMH	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			607002	04/11/23 23:03	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-4-1.5
Date Collected: 03/06/23 11:45
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-14
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			745.66 mL	1.0 g	603989	03/17/23 08:44	DJP	EET SL
Dissolved	Analysis	9315		1			606893	04/11/23 12:12	SCB	EET SL
Instrument ID: GFPCRED										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-4-1.5

Lab Sample ID: 180-153194-14

Date Collected: 03/06/23 11:45

Matrix: Water

Date Received: 03/08/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep_0			745.66 mL	1.0 g	603994	03/17/23 09:25	DJP	EET SL
Dissolved	Analysis	9320		1			605834	04/03/23 12:36	EMH	EET SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-5-1'

Lab Sample ID: 180-153194-15

Date Collected: 03/06/23 08:03

Matrix: Water

Date Received: 03/08/23 09:28

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			741.18 mL	1.0 g	603989	03/17/23 08:44	DJP	EET SL
Total/NA	Analysis	9315		1			606895	04/11/23 12:14	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			741.18 mL	1.0 g	603994	03/17/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			605834	04/03/23 12:36	EMH	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			607002	04/11/23 23:03	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-5-1'

Lab Sample ID: 180-153194-16

Date Collected: 03/06/23 08:19

Matrix: Water

Date Received: 03/08/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			748.17 mL	1.0 g	603989	03/17/23 08:44	DJP	EET SL
Dissolved	Analysis	9315		1			606895	04/11/23 12:14	SCB	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			748.17 mL	1.0 g	603994	03/17/23 09:25	DJP	EET SL
Dissolved	Analysis	9320		1			605834	04/03/23 12:36	EMH	EET SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-5-13'

Lab Sample ID: 180-153194-17

Date Collected: 03/06/23 08:35

Matrix: Water

Date Received: 03/08/23 09:28

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			757.17 mL	1.0 g	603989	03/17/23 08:44	DJP	EET SL
Total/NA	Analysis	9315		1			606895	04/11/23 12:14	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			757.17 mL	1.0 g	603994	03/17/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			605834	04/03/23 12:37	EMH	EET SL
Instrument ID: GFPCPURPLE										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-5-13'

Date Collected: 03/06/23 08:35

Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-17

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			607002	04/11/23 23:03	EMH	EET SL

Client Sample ID: SW-5-13'

Date Collected: 03/06/23 08:53

Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-18

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			752.94 mL	1.0 g	603989	03/17/23 08:44	DJP	EET SL
Dissolved	Analysis	9315		1			606895	04/11/23 12:15	SCB	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			752.94 mL	1.0 g	603994	03/17/23 09:25	DJP	EET SL
Dissolved	Analysis	9320		1			605834	04/03/23 12:37	EMH	EET SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-6-1'

Date Collected: 03/06/23 09:21

Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-19

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			748.05 mL	1.0 g	603989	03/17/23 08:44	DJP	EET SL
Total/NA	Analysis	9315		1			606895	04/11/23 12:15	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			748.05 mL	1.0 g	603994	03/17/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			605834	04/03/23 12:37	EMH	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			607002	04/11/23 23:09	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-6-1'

Date Collected: 03/06/23 09:38

Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-20

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			758.84 mL	1.0 g	603989	03/17/23 08:44	DJP	EET SL
Dissolved	Analysis	9315		1			606895	04/11/23 12:15	SCB	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			758.84 mL	1.0 g	603994	03/17/23 09:25	DJP	EET SL
Dissolved	Analysis	9320		1			605834	04/03/23 12:37	EMH	EET SL
Instrument ID: GFPCPURPLE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-6-9.5

Lab Sample ID: 180-153194-21

Date Collected: 03/06/23 09:53

Matrix: Water

Date Received: 03/08/23 09:28

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			751.41 mL	1.0 g	603989	03/17/23 08:44	DJP	EET SL
Total/NA	Analysis	9315		1			606895	04/11/23 12:15	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			751.41 mL	1.0 g	603994	03/17/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			605834	04/03/23 12:37	EMH	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			607002	04/11/23 23:09	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-6-9.5

Lab Sample ID: 180-153194-22

Date Collected: 03/06/23 10:10

Matrix: Water

Date Received: 03/08/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			758.47 mL	1.0 g	603989	03/17/23 08:44	DJP	EET SL
Dissolved	Analysis	9315		1			606896	04/11/23 12:24	SCB	EET SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			758.47 mL	1.0 g	603994	03/17/23 09:25	DJP	EET SL
Dissolved	Analysis	9320		1			605945	04/03/23 12:31	FLC	EET SL
Instrument ID: GFPCORANGE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-9-1'

Lab Sample ID: 180-153194-23

Date Collected: 03/06/23 13:06

Matrix: Water

Date Received: 03/08/23 09:28

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			741.61 mL	1.0 g	603989	03/17/23 08:44	DJP	EET SL
Total/NA	Analysis	9315		1			606896	04/11/23 12:24	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			741.61 mL	1.0 g	603994	03/17/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			605945	04/03/23 12:31	FLC	EET SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			607002	04/11/23 23:09	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-9-1'

Lab Sample ID: 180-153194-24

Date Collected: 03/06/23 13:22

Matrix: Water

Date Received: 03/08/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			748.57 mL	1.0 g	603989	03/17/23 08:44	DJP	EET SL
Dissolved	Analysis	9315		1			606893	04/11/23 14:42	SCB	EET SL
Instrument ID: GFPCRED										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-9-1'
Date Collected: 03/06/23 13:22
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-24
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			748.57 mL	1.0 g	603994	03/17/23 09:25	DJP	EET SL
Dissolved	Analysis	9320		1			605945	04/03/23 12:32	FLC	EET SL
Instrument ID: GFPCORANGE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-9-4'
Date Collected: 03/06/23 13:31
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-25
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			753.25 mL	1.0 g	603989	03/17/23 08:44	DJP	EET SL
Total/NA	Analysis	9315		1			606893	04/11/23 14:42	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			753.25 mL	1.0 g	603994	03/17/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			605945	04/03/23 12:32	FLC	EET SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			607002	04/11/23 23:09	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-9-4'
Date Collected: 03/06/23 13:45
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-26
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			747.03 mL	1.0 g	603989	03/17/23 08:44	DJP	EET SL
Dissolved	Analysis	9315		1			606893	04/11/23 14:42	SCB	EET SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			747.03 mL	1.0 g	603994	03/17/23 09:25	DJP	EET SL
Dissolved	Analysis	9320		1			605945	04/03/23 12:33	FLC	EET SL
Instrument ID: GFPCORANGE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-10-2'
Date Collected: 03/06/23 12:31
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-27
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			746.98 mL	1.0 g	603989	03/17/23 08:44	DJP	EET SL
Total/NA	Analysis	9315		1			606893	04/11/23 14:43	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			746.98 mL	1.0 g	603994	03/17/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			605945	04/03/23 12:33	FLC	EET SL
Instrument ID: GFPCORANGE										

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Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-10-2'

Lab Sample ID: 180-153194-27

Date Collected: 03/06/23 12:31

Matrix: Water

Date Received: 03/08/23 09:28

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			607002	04/11/23 23:09	EMH	EET SL

Client Sample ID: SW-10-2'

Lab Sample ID: 180-153194-28

Date Collected: 03/06/23 12:48

Matrix: Water

Date Received: 03/08/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			753.62 mL	1.0 g	603989	03/17/23 08:44	DJP	EET SL
Dissolved	Analysis	9315		1			606893	04/11/23 14:43	SCB	EET SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			753.62 mL	1.0 g	603994	03/17/23 09:25	DJP	EET SL
Dissolved	Analysis	9320		1			605945	04/03/23 12:33	FLC	EET SL
Instrument ID: GFPCORANGE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-11-1'

Lab Sample ID: 180-153194-29

Date Collected: 03/06/23 12:08

Matrix: Water

Date Received: 03/08/23 09:28

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			747.88 mL	1.0 g	603989	03/17/23 08:44	DJP	EET SL
Total/NA	Analysis	9315		1			606893	04/11/23 14:44	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			747.88 mL	1.0 g	603994	03/17/23 09:25	DJP	EET SL
Total/NA	Analysis	9320		1			605945	04/03/23 12:33	FLC	EET SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			607002	04/11/23 23:09	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-11-1'

Lab Sample ID: 180-153194-30

Date Collected: 03/06/23 11:51

Matrix: Water

Date Received: 03/08/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			750.13 mL	1.0 g	603989	03/17/23 08:44	DJP	EET SL
Dissolved	Analysis	9315		1			606893	04/11/23 14:44	SCB	EET SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			750.13 mL	1.0 g	603994	03/17/23 09:25	DJP	EET SL
Dissolved	Analysis	9320		1			605945	04/03/23 12:33	FLC	EET SL
Instrument ID: GFPCORANGE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-12-1'

Lab Sample ID: 180-153194-31

Date Collected: 03/06/23 10:42

Matrix: Water

Date Received: 03/08/23 09:28

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			751.23 mL	1.0 g	603997	03/17/23 09:53	DJP	EET SL
Total/NA	Analysis	9315		1			606893	04/11/23 10:06	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			751.23 mL	1.0 g	603999	03/17/23 10:09	DJP	EET SL
Total/NA	Analysis	9320		1			605833	04/03/23 12:45	EMH	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			607002	04/11/23 23:03	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-12-1'

Lab Sample ID: 180-153194-32

Date Collected: 03/06/23 11:12

Matrix: Water

Date Received: 03/08/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			748.27 mL	1.0 g	603997	03/17/23 09:53	DJP	EET SL
Dissolved	Analysis	9315		1			606893	04/11/23 10:08	SCB	EET SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			748.27 mL	1.0 g	603999	03/17/23 10:09	DJP	EET SL
Dissolved	Analysis	9320		1			605833	04/03/23 12:46	EMH	EET SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-13-1'

Lab Sample ID: 180-153194-33

Date Collected: 03/06/23 12:21

Matrix: Water

Date Received: 03/08/23 09:28

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			740.81 mL	1.0 g	603997	03/17/23 09:53	DJP	EET SL
Total/NA	Analysis	9315		1			606893	04/11/23 10:08	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			740.81 mL	1.0 g	603999	03/17/23 10:09	DJP	EET SL
Total/NA	Analysis	9320		1			605833	04/03/23 12:47	EMH	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			607002	04/11/23 23:03	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-13-1'

Lab Sample ID: 180-153194-34

Date Collected: 03/06/23 12:39

Matrix: Water

Date Received: 03/08/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			751.32 mL	1.0 g	603997	03/17/23 09:53	DJP	EET SL
Dissolved	Analysis	9315		1			606893	04/11/23 10:08	SCB	EET SL
Instrument ID: GFPCRED										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-13-1'

Lab Sample ID: 180-153194-34

Date Collected: 03/06/23 12:39

Matrix: Water

Date Received: 03/08/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep_0			751.32 mL	1.0 g	603999	03/17/23 10:09	DJP	EET SL
Dissolved	Analysis	9320		1			605833	04/03/23 12:48	EMH	EET SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-14-1.5

Lab Sample ID: 180-153194-35

Date Collected: 03/06/23 13:14

Matrix: Water

Date Received: 03/08/23 09:28

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			742.16 mL	1.0 g	603997	03/17/23 09:53	DJP	EET SL
Total/NA	Analysis	9315		1			606893	04/11/23 10:08	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			742.16 mL	1.0 g	603999	03/17/23 10:09	DJP	EET SL
Total/NA	Analysis	9320		1			605833	04/03/23 12:48	EMH	EET SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			607002	04/11/23 23:03	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-14-1.5

Lab Sample ID: 180-153194-36

Date Collected: 03/06/23 13:29

Matrix: Water

Date Received: 03/08/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			753.03 mL	1.0 g	603997	03/17/23 09:53	DJP	EET SL
Dissolved	Analysis	9315		1			606893	04/11/23 10:08	SCB	EET SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			753.03 mL	1.0 g	603999	03/17/23 10:09	DJP	EET SL
Dissolved	Analysis	9320		1			605833	04/03/23 12:48	EMH	EET SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-15-1.5

Lab Sample ID: 180-153194-37

Date Collected: 03/06/23 13:50

Matrix: Water

Date Received: 03/08/23 09:28

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			751.42 mL	1.0 g	603997	03/17/23 09:53	DJP	EET SL
Total/NA	Analysis	9315		1			606893	04/11/23 10:08	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			751.42 mL	1.0 g	603999	03/17/23 10:09	DJP	EET SL
Total/NA	Analysis	9320		1			605833	04/03/23 12:49	EMH	EET SL
Instrument ID: GFPCRED										

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Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-15-1.5

Date Collected: 03/06/23 13:50

Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-37

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			607002	04/11/23 23:03	EMH	EET SL

Client Sample ID: SW-15-1.5

Date Collected: 03/06/23 14:10

Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-38

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			749.35 mL	1.0 g	603997	03/17/23 09:53	DJP	EET SL
Dissolved	Analysis	9315		1			606895	04/11/23 10:10	SCB	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			749.35 mL	1.0 g	603999	03/17/23 10:09	DJP	EET SL
Dissolved	Analysis	9320		1			605833	04/03/23 12:49	EMH	EET SL
Instrument ID: GFPCRED										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-16-1.5

Date Collected: 03/06/23 14:48

Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-39

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			753.54 mL	1.0 g	603997	03/17/23 09:53	DJP	EET SL
Total/NA	Analysis	9315		1			606893	04/11/23 10:08	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			753.54 mL	1.0 g	603999	03/17/23 10:09	DJP	EET SL
Total/NA	Analysis	9320		1			605835	04/03/23 12:42	EMH	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			607002	04/11/23 23:03	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-16-1.5

Date Collected: 03/06/23 15:08

Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-40

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			743.77 mL	1.0 g	603997	03/17/23 09:53	DJP	EET SL
Dissolved	Analysis	9315		1			606895	04/11/23 10:10	SCB	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			743.77 mL	1.0 g	603999	03/17/23 10:09	DJP	EET SL
Dissolved	Analysis	9320		1			605835	04/03/23 12:42	EMH	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: EB-01

Lab Sample ID: 180-153194-41

Date Collected: 03/06/23 08:16

Matrix: Water

Date Received: 03/08/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			993.76 mL	1.0 g	603997	03/17/23 09:53	DJP	EET SL
Total/NA	Analysis	9315		1			606895	04/11/23 10:10	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			993.76 mL	1.0 g	603999	03/17/23 10:09	DJP	EET SL
Total/NA	Analysis	9320		1			605835	04/03/23 12:42	EMH	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			607002	04/11/23 23:03	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-17-1'

Lab Sample ID: 180-153194-42

Date Collected: 03/06/23 10:38

Matrix: Water

Date Received: 03/08/23 09:28

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			750.22 mL	1.0 g	603997	03/17/23 09:53	DJP	EET SL
Total/NA	Analysis	9315		1			606895	04/11/23 10:11	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			750.22 mL	1.0 g	603999	03/17/23 10:09	DJP	EET SL
Total/NA	Analysis	9320		1			605835	04/03/23 12:42	EMH	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			607002	04/11/23 23:03	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: SW-17-1'

Lab Sample ID: 180-153194-43

Date Collected: 03/06/23 10:57

Matrix: Water

Date Received: 03/08/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	PrecSep-21			743.74 mL	1.0 g	603997	03/17/23 09:53	DJP	EET SL
Dissolved	Analysis	9315		1			606895	04/11/23 10:11	SCB	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Prep	PrecSep_0			743.74 mL	1.0 g	603999	03/17/23 10:09	DJP	EET SL
Dissolved	Analysis	9320		1			605835	04/03/23 12:43	EMH	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-01

Lab Sample ID: 180-153194-44

Date Collected: 03/06/23 08:13

Matrix: Water

Date Received: 03/08/23 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			995.34 mL	1.0 g	603997	03/17/23 09:53	DJP	EET SL
Total/NA	Analysis	9315		1			606895	04/11/23 10:11	SCB	EET SL
Instrument ID: GFPCBLUE										

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: FB-01
Date Collected: 03/06/23 08:13
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-44
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			995.34 mL	1.0 g	603999	03/17/23 10:09	DJP	EET SL
Total/NA	Analysis	9320		1			605835	04/03/23 12:43	EMH	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			607002	04/11/23 23:03	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01
Date Collected: 03/06/23 11:21
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-45
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			744.88 mL	1.0 g	603997	03/17/23 09:53	DJP	EET SL
Total/NA	Analysis	9315		1			606895	04/11/23 10:11	SCB	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			744.88 mL	1.0 g	603999	03/17/23 10:09	DJP	EET SL
Total/NA	Analysis	9320		1			605835	04/03/23 12:43	EMH	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			607002	04/11/23 23:03	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01
Date Collected: 03/06/23 11:39
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-46
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			747.27 mL	1.0 g	603997	03/17/23 09:53	DJP	EET SL
Dissolved	Analysis	9315		1			606896	04/11/23 10:15	SCB	EET SL
Instrument ID: GFPCPURPLE										
Dissolved	Prep	PrecSep_0			747.27 mL	1.0 g	603999	03/17/23 10:09	DJP	EET SL
Dissolved	Analysis	9320		1			605835	04/03/23 12:43	EMH	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-02
Date Collected: 03/06/23 16:39
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-47
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			754.75 mL	1.0 g	603997	03/17/23 09:53	DJP	EET SL
Total/NA	Analysis	9315		1			606896	04/11/23 10:15	SCB	EET SL
Instrument ID: GFPCPURPLE										
Total/NA	Prep	PrecSep_0			754.75 mL	1.0 g	603999	03/17/23 10:09	DJP	EET SL
Total/NA	Analysis	9320		1			605835	04/03/23 12:43	EMH	EET SL
Instrument ID: GFPCBLUE										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: DUP-02
Date Collected: 03/06/23 16:39
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-47
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			607002	04/11/23 23:03	EMH	EET SL

Client Sample ID: DUP-02
Date Collected: 03/06/23 16:56
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-48
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			752.53 mL	1.0 g	603997	03/17/23 09:53	DJP	EET SL
Dissolved	Analysis	9315		1			606893	04/11/23 10:47	SCB	EET SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			752.53 mL	1.0 g	603999	03/17/23 10:09	DJP	EET SL
Dissolved	Analysis	9320		1			605835	04/03/23 12:43	EMH	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-03
Date Collected: 03/06/23 09:42
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-49
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			741.31 mL	1.0 g	603997	03/17/23 09:53	DJP	EET SL
Total/NA	Analysis	9315		1			606893	04/11/23 10:48	SCB	EET SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			741.31 mL	1.0 g	603999	03/17/23 10:09	DJP	EET SL
Total/NA	Analysis	9320		1			605835	04/03/23 12:44	EMH	EET SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			607002	04/11/23 23:03	EMH	EET SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-03
Date Collected: 03/06/23 10:12
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-50
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			750.56 mL	1.0 g	603997	03/17/23 09:53	DJP	EET SL
Dissolved	Analysis	9315		1			606893	04/11/23 12:01	SCB	EET SL
Instrument ID: GFPCRED										
Dissolved	Prep	PrecSep_0			750.56 mL	1.0 g	603999	03/17/23 10:09	DJP	EET SL
Dissolved	Analysis	9320		1			605835	04/03/23 12:44	EMH	EET SL
Instrument ID: GFPCBLUE										
Dissolved	Analysis	Ra226_Ra228 (D)		1			607001	04/11/23 23:02	EMH	EET SL
Instrument ID: NOEQUIP										

Laboratory References:

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Analyst References:

- Lab: EET SL
 - Batch Type: Prep
 - DJP = Dalton Pieper
 - Batch Type: Analysis
 - EMH = Elizabeth Hoerchler
 - FLC = Fernando Cruz
 - SCB = Sarah Bernsen

- 1
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Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-1-1'
Date Collected: 03/06/23 17:39
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-1
Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0586	U	0.0962	0.0963	1.00	0.167	pCi/L	03/16/23 07:58	04/07/23 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.7		30 - 110					03/16/23 07:58	04/07/23 10:47	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.121	U	0.415	0.415	1.00	0.747	pCi/L	03/16/23 09:45	03/30/23 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.7		30 - 110					03/16/23 09:45	03/30/23 12:09	1
Y Carrier	79.3		30 - 110					03/16/23 09:45	03/30/23 12:09	1

Method: TAL-STL 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	0.180	U	0.426	0.426	5.00	0.747	pCi/L		04/11/23 23:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-1-1'
 Date Collected: 03/06/23 17:56
 Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-2
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.241		0.163	0.164	1.00	0.235	pCi/L	03/16/23 07:58	04/07/23 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		30 - 110					03/16/23 07:58	04/07/23 10:47	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.174	U	0.455	0.455	1.00	0.807	pCi/L	03/16/23 09:45	03/30/23 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		30 - 110					03/16/23 09:45	03/30/23 12:11	1
Y Carrier	84.1		30 - 110					03/16/23 09:45	03/30/23 12:11	1

Method: TAL-STL 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	0.415	U	0.483	0.484	5.00	0.807	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-1-7'
Date Collected: 03/06/23 18:13
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-3
Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0497	U	0.0941	0.0942	1.00	0.166	pCi/L	03/16/23 07:58	04/07/23 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.4		30 - 110					03/16/23 07:58	04/07/23 10:48	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.30		0.527	0.541	1.00	0.657	pCi/L	03/16/23 09:45	03/30/23 12:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.4		30 - 110					03/16/23 09:45	03/30/23 12:11	1
Y Carrier	86.7		30 - 110					03/16/23 09:45	03/30/23 12:11	1

Method: TAL-STL 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	1.35		0.535	0.549	5.00	0.657	pCi/L		04/11/23 23:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-1-7'
Date Collected: 03/06/23 18:25
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-4
Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0986	U	0.0882	0.0886	1.00	0.132	pCi/L	03/16/23 07:58	04/07/23 13:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					03/16/23 07:58	04/07/23 13:31	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.628	U	0.467	0.471	1.00	0.714	pCi/L	03/16/23 09:45	03/30/23 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					03/16/23 09:45	03/30/23 12:15	1
Y Carrier	84.9		30 - 110					03/16/23 09:45	03/30/23 12:15	1

Method: TAL-STL 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	0.727		0.475	0.479	5.00	0.714	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-2-1'
Date Collected: 03/06/23 16:50
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-5
Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0952	U	0.0931	0.0935	1.00	0.144	pCi/L	03/16/23 07:58	04/07/23 13:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					03/16/23 07:58	04/07/23 13:32	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.648	U	0.579	0.582	1.00	0.922	pCi/L	03/16/23 09:45	03/30/23 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					03/16/23 09:45	03/30/23 12:15	1
Y Carrier	79.6		30 - 110					03/16/23 09:45	03/30/23 12:15	1

Method: TAL-STL 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	0.743	U	0.586	0.589	5.00	0.922	pCi/L		04/11/23 23:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-2-1'
 Date Collected: 03/06/23 17:03
 Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-6
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.164		0.0958	0.0970	1.00	0.109	pCi/L	03/16/23 07:58	04/07/23 13:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		30 - 110					03/16/23 07:58	04/07/23 13:32	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.541	U	0.432	0.435	1.00	0.667	pCi/L	03/16/23 09:45	03/30/23 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		30 - 110					03/16/23 09:45	03/30/23 12:15	1
Y Carrier	86.4		30 - 110					03/16/23 09:45	03/30/23 12:15	1

Method: TAL-STL 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	0.706		0.442	0.446	5.00	0.667	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-2-7'
Date Collected: 03/06/23 17:14
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-7
Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0987	U	0.0963	0.0967	1.00	0.149	pCi/L	03/16/23 07:58	04/07/23 13:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		30 - 110					03/16/23 07:58	04/07/23 13:32	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.900		0.464	0.472	1.00	0.636	pCi/L	03/16/23 09:45	03/30/23 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		30 - 110					03/16/23 09:45	03/30/23 12:15	1
Y Carrier	85.6		30 - 110					03/16/23 09:45	03/30/23 12:15	1

Method: TAL-STL 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	0.998		0.474	0.482	5.00	0.636	pCi/L		04/11/23 23:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-2-7'
Date Collected: 03/06/23 17:23
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-8
Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0404	U	0.0877	0.0877	1.00	0.159	pCi/L	03/16/23 07:58	04/07/23 13:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					03/16/23 07:58	04/07/23 13:34	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.945		0.495	0.503	1.00	0.683	pCi/L	03/16/23 09:45	03/30/23 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					03/16/23 09:45	03/30/23 12:15	1
Y Carrier	84.5		30 - 110					03/16/23 09:45	03/30/23 12:15	1

Method: TAL-STL 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	0.985		0.503	0.511	5.00	0.683	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-3-1'
Date Collected: 03/06/23 09:12
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-9
Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0969	U	0.103	0.103	1.00	0.164	pCi/L	03/16/23 07:58	04/07/23 13:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					03/16/23 07:58	04/07/23 13:34	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.185	U	0.430	0.430	1.00	0.752	pCi/L	03/16/23 09:45	03/30/23 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					03/16/23 09:45	03/30/23 12:15	1
Y Carrier	86.4		30 - 110					03/16/23 09:45	03/30/23 12:15	1

Method: TAL-STL 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	0.282	U	0.442	0.442	5.00	0.752	pCi/L		04/11/23 23:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-3-1'
Date Collected: 03/06/23 09:25
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-10
Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00230	U	0.102	0.102	1.00	0.202	pCi/L	03/16/23 07:58	04/07/23 13:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.1		30 - 110					03/16/23 07:58	04/07/23 13:34	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.893		0.467	0.474	1.00	0.643	pCi/L	03/16/23 09:45	03/30/23 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.1		30 - 110					03/16/23 09:45	03/30/23 12:16	1
Y Carrier	86.4		30 - 110					03/16/23 09:45	03/30/23 12:16	1

Method: TAL-STL 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	0.895		0.478	0.485	5.00	0.643	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-3-4'
Date Collected: 03/06/23 09:39
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-11
Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0476	U	0.0774	0.0775	1.00	0.136	pCi/L	03/17/23 08:44	04/11/23 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.7		30 - 110					03/17/23 08:44	04/11/23 12:12	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0562	U	0.478	0.478	1.00	0.906	pCi/L	03/17/23 09:25	04/03/23 12:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.7		30 - 110					03/17/23 09:25	04/03/23 12:36	1
Y Carrier	83.4		30 - 110					03/17/23 09:25	04/03/23 12:36	1

Method: TAL-STL 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	-0.00865	U	0.484	0.484	5.00	0.906	pCi/L		04/11/23 23:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-3-4'
Date Collected: 03/06/23 09:50
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-12
Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.115	U	0.0945	0.0950	1.00	0.137	pCi/L	03/17/23 08:44	04/11/23 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		30 - 110					03/17/23 08:44	04/11/23 12:12	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.195	U	0.353	0.354	1.00	0.723	pCi/L	03/17/23 09:25	04/03/23 12:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		30 - 110					03/17/23 09:25	04/03/23 12:36	1
Y Carrier	88.2		30 - 110					03/17/23 09:25	04/03/23 12:36	1

Method: TAL-STL 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	-0.0802	U	0.365	0.367	5.00	0.723	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-4-1.5

Lab Sample ID: 180-153194-13

Date Collected: 03/06/23 11:37

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.126	U	0.106	0.106	1.00	0.157	pCi/L	03/17/23 08:44	04/11/23 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					03/17/23 08:44	04/11/23 12:12	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.129	U	0.404	0.405	1.00	0.726	pCi/L	03/17/23 09:25	04/03/23 12:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					03/17/23 09:25	04/03/23 12:36	1
Y Carrier	88.2		30 - 110					03/17/23 09:25	04/03/23 12:36	1

Method: TAL-STL 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	0.255	U	0.418	0.419	5.00	0.726	pCi/L		04/11/23 23:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-4-1.5

Lab Sample ID: 180-153194-14

Date Collected: 03/06/23 11:45

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.149		0.0938	0.0948	1.00	0.115	pCi/L	03/17/23 08:44	04/11/23 12:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					03/17/23 08:44	04/11/23 12:12	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.401	U	0.428	0.430	1.00	0.695	pCi/L	03/17/23 09:25	04/03/23 12:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					03/17/23 09:25	04/03/23 12:36	1
Y Carrier	88.6		30 - 110					03/17/23 09:25	04/03/23 12:36	1

Method: TAL-STL 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	0.549	U	0.438	0.440	5.00	0.695	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-5-1'
Date Collected: 03/06/23 08:03
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-15
Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0246	U	0.109	0.109	1.00	0.211	pCi/L	03/17/23 08:44	04/11/23 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	62.1		30 - 110					03/17/23 08:44	04/11/23 12:14	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.367	U G	0.613	0.614	1.00	1.22	pCi/L	03/17/23 09:25	04/03/23 12:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	62.1		30 - 110					03/17/23 09:25	04/03/23 12:36	1
Y Carrier	88.6		30 - 110					03/17/23 09:25	04/03/23 12:36	1

Method: TAL-STL 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	-0.343	U	0.623	0.624	5.00	1.22	pCi/L		04/11/23 23:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-5-1'
 Date Collected: 03/06/23 08:19
 Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-16
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.256		0.157	0.159	1.00	0.214	pCi/L	03/17/23 08:44	04/11/23 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.6		30 - 110					03/17/23 08:44	04/11/23 12:14	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.139	U	0.355	0.355	1.00	0.742	pCi/L	03/17/23 09:25	04/03/23 12:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.6		30 - 110					03/17/23 09:25	04/03/23 12:36	1
Y Carrier	87.9		30 - 110					03/17/23 09:25	04/03/23 12:36	1

Method: TAL-STL 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	0.117	U	0.388	0.389	5.00	0.742	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-5-13'

Lab Sample ID: 180-153194-17

Date Collected: 03/06/23 08:35

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0371	U	0.126	0.126	1.00	0.239	pCi/L	03/17/23 08:44	04/11/23 12:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	54.1		30 - 110					03/17/23 08:44	04/11/23 12:14	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.514	U G	0.563	0.565	1.00	1.21	pCi/L	03/17/23 09:25	04/03/23 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	54.1		30 - 110					03/17/23 09:25	04/03/23 12:37	1
Y Carrier	86.7		30 - 110					03/17/23 09:25	04/03/23 12:37	1

Method: TAL-STL 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	-0.476	U	0.577	0.579	5.00	1.21	pCi/L		04/11/23 23:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-5-13'

Lab Sample ID: 180-153194-18

Date Collected: 03/06/23 08:53

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.170	U	0.141	0.141	1.00	0.211	pCi/L	03/17/23 08:44	04/11/23 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.4		30 - 110					03/17/23 08:44	04/11/23 12:15	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.259	U	0.521	0.521	1.00	0.904	pCi/L	03/17/23 09:25	04/03/23 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.4		30 - 110					03/17/23 09:25	04/03/23 12:37	1
Y Carrier	91.2		30 - 110					03/17/23 09:25	04/03/23 12:37	1

Method: TAL-STL 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	0.429	U	0.540	0.540	5.00	0.904	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-6-1'
Date Collected: 03/06/23 09:21
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-19
Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0492	U	0.147	0.147	1.00	0.270	pCi/L	03/17/23 08:44	04/11/23 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	62.1		30 - 110					03/17/23 08:44	04/11/23 12:15	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0776	U G	0.550	0.550	1.00	1.05	pCi/L	03/17/23 09:25	04/03/23 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	62.1		30 - 110					03/17/23 09:25	04/03/23 12:37	1
Y Carrier	92.3		30 - 110					03/17/23 09:25	04/03/23 12:37	1

Method: TAL-STL 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	-0.0284	U	0.569	0.569	5.00	1.05	pCi/L		04/11/23 23:09	1



Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-6-1'
Date Collected: 03/06/23 09:38
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-20
Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0888	U	0.0896	0.0900	1.00	0.140	pCi/L	03/17/23 08:44	04/11/23 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					03/17/23 08:44	04/11/23 12:15	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.169	U	0.321	0.322	1.00	0.561	pCi/L	03/17/23 09:25	04/03/23 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					03/17/23 09:25	04/03/23 12:37	1
Y Carrier	91.6		30 - 110					03/17/23 09:25	04/03/23 12:37	1

Method: TAL-STL 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	0.258	U	0.333	0.334	5.00	0.561	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-6-9.5

Lab Sample ID: 180-153194-21

Date Collected: 03/06/23 09:53

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 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	0.114	0.114	1.00	0.221	pCi/L	03/17/23 08:44	04/11/23 12:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.0		30 - 110					03/17/23 08:44	04/11/23 12:15	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.387	U	0.503	0.504	1.00	0.838	pCi/L	03/17/23 09:25	04/03/23 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.0		30 - 110					03/17/23 09:25	04/03/23 12:37	1
Y Carrier	87.1		30 - 110					03/17/23 09:25	04/03/23 12:37	1

Method: TAL-STL 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	0.516	0.517	5.00	0.838	pCi/L		04/11/23 23:09	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-6-9.5

Lab Sample ID: 180-153194-22

Date Collected: 03/06/23 10:10

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0856	U	0.0860	0.0864	1.00	0.134	pCi/L	03/17/23 08:44	04/11/23 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		30 - 110					03/17/23 08:44	04/11/23 12:24	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0519	U	0.313	0.313	1.00	0.586	pCi/L	03/17/23 09:25	04/03/23 12:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		30 - 110					03/17/23 09:25	04/03/23 12:31	1
Y Carrier	84.5		30 - 110					03/17/23 09:25	04/03/23 12:31	1

Method: TAL-STL 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	0.137	U	0.325	0.325	5.00	0.586	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-9-1'
 Date Collected: 03/06/23 13:06
 Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-23
 Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.235		0.151	0.152	1.00	0.207	pCi/L	03/17/23 08:44	04/11/23 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	67.0		30 - 110					03/17/23 08:44	04/11/23 12:24	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.109	U G	0.553	0.553	1.00	1.01	pCi/L	03/17/23 09:25	04/03/23 12:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	67.0		30 - 110					03/17/23 09:25	04/03/23 12:31	1
Y Carrier	84.9		30 - 110					03/17/23 09:25	04/03/23 12:31	1

Method: TAL-STL 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	0.343	U	0.573	0.574	5.00	1.01	pCi/L		04/11/23 23:09	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-9-1'
Date Collected: 03/06/23 13:22
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-24
Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0617	U	0.0762	0.0764	1.00	0.125	pCi/L	03/17/23 08:44	04/11/23 14:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		30 - 110					03/17/23 08:44	04/11/23 14:42	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.609	U	0.450	0.453	1.00	0.683	pCi/L	03/17/23 09:25	04/03/23 12:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		30 - 110					03/17/23 09:25	04/03/23 12:32	1
Y Carrier	89.0		30 - 110					03/17/23 09:25	04/03/23 12:32	1

Method: TAL-STL 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	0.671	U	0.456	0.459	5.00	0.683	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-9-4'

Lab Sample ID: 180-153194-25

Date Collected: 03/06/23 13:31

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 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	0.144	0.145	1.00	0.236	pCi/L	03/17/23 08:44	04/11/23 14:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	67.8		30 - 110					03/17/23 08:44	04/11/23 14:42	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.389	U	0.527	0.528	1.00	0.884	pCi/L	03/17/23 09:25	04/03/23 12:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	67.8		30 - 110					03/17/23 09:25	04/03/23 12:32	1
Y Carrier	87.5		30 - 110					03/17/23 09:25	04/03/23 12:32	1

Method: TAL-STL 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	0.513	U	0.546	0.548	5.00	0.884	pCi/L		04/11/23 23:09	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-9-4'
Date Collected: 03/06/23 13:45
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-26
Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0467	U	0.0880	0.0881	1.00	0.156	pCi/L	03/17/23 08:44	04/11/23 14:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		30 - 110					03/17/23 08:44	04/11/23 14:42	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.155	U	0.304	0.304	1.00	0.625	pCi/L	03/17/23 09:25	04/03/23 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		30 - 110					03/17/23 09:25	04/03/23 12:33	1
Y Carrier	92.0		30 - 110					03/17/23 09:25	04/03/23 12:33	1

Method: TAL-STL 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	0.316	0.317	5.00	0.625	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-10-2'

Lab Sample ID: 180-153194-27

Date Collected: 03/06/23 12:31

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.114	U	0.106	0.106	1.00	0.160	pCi/L	03/17/23 08:44	04/11/23 14:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.6		30 - 110					03/17/23 08:44	04/11/23 14:43	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.125	U	0.499	0.499	1.00	0.900	pCi/L	03/17/23 09:25	04/03/23 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.6		30 - 110					03/17/23 09:25	04/03/23 12:33	1
Y Carrier	93.1		30 - 110					03/17/23 09:25	04/03/23 12:33	1

Method: TAL-STL 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	0.239	U	0.510	0.510	5.00	0.900	pCi/L		04/11/23 23:09	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-10-2'

Lab Sample ID: 180-153194-28

Date Collected: 03/06/23 12:48

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0640	U	0.0760	0.0762	1.00	0.124	pCi/L	03/17/23 08:44	04/11/23 14:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		30 - 110					03/17/23 08:44	04/11/23 14:43	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.238	U	0.350	0.351	1.00	0.593	pCi/L	03/17/23 09:25	04/03/23 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		30 - 110					03/17/23 09:25	04/03/23 12:33	1
Y Carrier	91.6		30 - 110					03/17/23 09:25	04/03/23 12:33	1

Method: TAL-STL 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	0.302	U	0.358	0.359	5.00	0.593	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-11-1'

Lab Sample ID: 180-153194-29

Date Collected: 03/06/23 12:08

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0737	U	0.0866	0.0868	1.00	0.141	pCi/L	03/17/23 08:44	04/11/23 14:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.9		30 - 110					03/17/23 08:44	04/11/23 14:44	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.164	U	0.356	0.356	1.00	0.627	pCi/L	03/17/23 09:25	04/03/23 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.9		30 - 110					03/17/23 09:25	04/03/23 12:33	1
Y Carrier	90.8		30 - 110					03/17/23 09:25	04/03/23 12:33	1

Method: TAL-STL 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	0.237	U	0.366	0.366	5.00	0.627	pCi/L		04/11/23 23:09	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-11-1'

Lab Sample ID: 180-153194-30

Date Collected: 03/06/23 11:51

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0416	U	0.0786	0.0787	1.00	0.141	pCi/L	03/17/23 08:44	04/11/23 14:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		30 - 110					03/17/23 08:44	04/11/23 14:44	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.502	U	0.414	0.417	1.00	0.642	pCi/L	03/17/23 09:25	04/03/23 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		30 - 110					03/17/23 09:25	04/03/23 12:33	1
Y Carrier	90.8		30 - 110					03/17/23 09:25	04/03/23 12:33	1

Method: TAL-STL 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	0.544	U	0.421	0.424	5.00	0.642	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-12-1'

Lab Sample ID: 180-153194-31

Date Collected: 03/06/23 10:42

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0463	U	0.111	0.111	1.00	0.206	pCi/L	03/17/23 09:53	04/11/23 10:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	55.7		30 - 110					03/17/23 09:53	04/11/23 10:06	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.774	U G	0.705	0.709	1.00	1.11	pCi/L	03/17/23 10:09	04/03/23 12:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	55.7		30 - 110					03/17/23 10:09	04/03/23 12:45	1
Y Carrier	83.4		30 - 110					03/17/23 10:09	04/03/23 12:45	1

Method: TAL-STL 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	0.820	U	0.714	0.718	5.00	1.11	pCi/L		04/11/23 23:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-12-1'

Lab Sample ID: 180-153194-32

Date Collected: 03/06/23 11:12

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0915	U	0.0749	0.0753	1.00	0.103	pCi/L	03/17/23 09:53	04/11/23 10:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		30 - 110					03/17/23 09:53	04/11/23 10:08	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.0817	U	0.391	0.391	1.00	0.710	pCi/L	03/17/23 10:09	04/03/23 12:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		30 - 110					03/17/23 10:09	04/03/23 12:46	1
Y Carrier	87.9		30 - 110					03/17/23 10:09	04/03/23 12:46	1

Method: TAL-STL 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	0.173	U	0.398	0.398	5.00	0.710	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-13-1'

Lab Sample ID: 180-153194-33

Date Collected: 03/06/23 12:21

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0828	U	0.0887	0.0891	1.00	0.141	pCi/L	03/17/23 09:53	04/11/23 10:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.7		30 - 110					03/17/23 09:53	04/11/23 10:08	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.366	U	0.475	0.476	1.00	0.792	pCi/L	03/17/23 10:09	04/03/23 12:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.7		30 - 110					03/17/23 10:09	04/03/23 12:47	1
Y Carrier	84.9		30 - 110					03/17/23 10:09	04/03/23 12:47	1

Method: TAL-STL 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	0.449	U	0.483	0.484	5.00	0.792	pCi/L		04/11/23 23:03	1

Client Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-13-1'

Lab Sample ID: 180-153194-34

Date Collected: 03/06/23 12:39

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.124		0.0876	0.0883	1.00	0.111	pCi/L	03/17/23 09:53	04/11/23 10:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		30 - 110					03/17/23 09:53	04/11/23 10:08	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0139	U	0.525	0.525	1.00	0.971	pCi/L	03/17/23 10:09	04/03/23 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		30 - 110					03/17/23 10:09	04/03/23 12:48	1
Y Carrier	80.4		30 - 110					03/17/23 10:09	04/03/23 12:48	1

Method: TAL-STL 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	0.110	U	0.532	0.532	5.00	0.971	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-14-1.5

Lab Sample ID: 180-153194-35

Date Collected: 03/06/23 13:14

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0379	U	0.0773	0.0774	1.00	0.142	pCi/L	03/17/23 09:53	04/11/23 10:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		30 - 110					03/17/23 09:53	04/11/23 10:08	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.760	U	0.595	0.599	1.00	0.917	pCi/L	03/17/23 10:09	04/03/23 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		30 - 110					03/17/23 10:09	04/03/23 12:48	1
Y Carrier	85.2		30 - 110					03/17/23 10:09	04/03/23 12:48	1

Method: TAL-STL 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	0.798	U	0.600	0.604	5.00	0.917	pCi/L		04/11/23 23:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-14-1.5

Lab Sample ID: 180-153194-36

Date Collected: 03/06/23 13:29

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0400	U	0.0754	0.0755	1.00	0.136	pCi/L	03/17/23 09:53	04/11/23 10:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		30 - 110					03/17/23 09:53	04/11/23 10:08	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.902		0.532	0.539	1.00	0.769	pCi/L	03/17/23 10:09	04/03/23 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		30 - 110					03/17/23 10:09	04/03/23 12:48	1
Y Carrier	84.9		30 - 110					03/17/23 10:09	04/03/23 12:48	1

Method: TAL-STL 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	0.942		0.537	0.544	5.00	0.769	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-15-1.5

Lab Sample ID: 180-153194-37

Date Collected: 03/06/23 13:50

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0160	U	0.0635	0.0635	1.00	0.143	pCi/L	03/17/23 09:53	04/11/23 10:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.1		30 - 110					03/17/23 09:53	04/11/23 10:08	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.254	U	0.323	0.324	1.00	0.700	pCi/L	03/17/23 10:09	04/03/23 12:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.1		30 - 110					03/17/23 10:09	04/03/23 12:49	1
Y Carrier	83.0		30 - 110					03/17/23 10:09	04/03/23 12:49	1

Method: TAL-STL 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	-0.270	U	0.329	0.330	5.00	0.700	pCi/L		04/11/23 23:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-15-1.5

Lab Sample ID: 180-153194-38

Date Collected: 03/06/23 14:10

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0811	U	0.0946	0.0948	1.00	0.154	pCi/L	03/17/23 09:53	04/11/23 10:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		30 - 110					03/17/23 09:53	04/11/23 10:10	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.434	U	0.447	0.449	1.00	0.722	pCi/L	03/17/23 10:09	04/03/23 12:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		30 - 110					03/17/23 10:09	04/03/23 12:49	1
Y Carrier	88.6		30 - 110					03/17/23 10:09	04/03/23 12:49	1

Method: TAL-STL 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	0.515	U	0.457	0.459	5.00	0.722	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-16-1.5

Lab Sample ID: 180-153194-39

Date Collected: 03/06/23 14:48

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.120		0.0879	0.0885	1.00	0.117	pCi/L	03/17/23 09:53	04/11/23 10:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					03/17/23 09:53	04/11/23 10:08	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.000	U	0.390	0.390	1.00	0.730	pCi/L	03/17/23 10:09	04/03/23 12:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		30 - 110					03/17/23 10:09	04/03/23 12:42	1
Y Carrier	88.2		30 - 110					03/17/23 10:09	04/03/23 12:42	1

Method: TAL-STL 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	0.120	U	0.400	0.400	5.00	0.730	pCi/L		04/11/23 23:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-16-1.5

Lab Sample ID: 180-153194-40

Date Collected: 03/06/23 15:08

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	-0.0367	U	0.0818	0.0819	1.00	0.183	pCi/L	03/17/23 09:53	04/11/23 10:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.4		30 - 110					03/17/23 09:53	04/11/23 10:10	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.663	U	0.470	0.474	1.00	0.700	pCi/L	03/17/23 10:09	04/03/23 12:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.4		30 - 110					03/17/23 10:09	04/03/23 12:42	1
Y Carrier	84.9		30 - 110					03/17/23 10:09	04/03/23 12:42	1

Method: TAL-STL 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	0.627	U	0.477	0.481	5.00	0.700	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: EB-01

Lab Sample ID: 180-153194-41

Date Collected: 03/06/23 08:16

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0131	U	0.0517	0.0517	1.00	0.114	pCi/L	03/17/23 09:53	04/11/23 10:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		30 - 110					03/17/23 09:53	04/11/23 10:10	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.402	U	0.380	0.382	1.00	0.608	pCi/L	03/17/23 10:09	04/03/23 12:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		30 - 110					03/17/23 10:09	04/03/23 12:42	1
Y Carrier	84.1		30 - 110					03/17/23 10:09	04/03/23 12:42	1

Method: TAL-STL 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	0.388	U	0.384	0.385	5.00	0.608	pCi/L		04/11/23 23:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-17-1'

Lab Sample ID: 180-153194-42

Date Collected: 03/06/23 10:38

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.187	U	0.132	0.133	1.00	0.189	pCi/L	03/17/23 09:53	04/11/23 10:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.2		30 - 110					03/17/23 09:53	04/11/23 10:11	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.614	U	0.531	0.534	1.00	0.831	pCi/L	03/17/23 10:09	04/03/23 12:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.2		30 - 110					03/17/23 10:09	04/03/23 12:42	1
Y Carrier	80.0		30 - 110					03/17/23 10:09	04/03/23 12:42	1

Method: TAL-STL 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	0.801	U	0.547	0.550	5.00	0.831	pCi/L		04/11/23 23:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: SW-17-1'

Lab Sample ID: 180-153194-43

Date Collected: 03/06/23 10:57

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.167	U	0.130	0.131	1.00	0.193	pCi/L	03/17/23 09:53	04/11/23 10:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					03/17/23 09:53	04/11/23 10:11	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.312	U	0.401	0.402	1.00	0.667	pCi/L	03/17/23 10:09	04/03/23 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					03/17/23 10:09	04/03/23 12:43	1
Y Carrier	92.0		30 - 110					03/17/23 10:09	04/03/23 12:43	1

Method: TAL-STL 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	0.479	U	0.422	0.423	5.00	0.667	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: FB-01

Lab Sample ID: 180-153194-44

Date Collected: 03/06/23 08:13

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.000730	U	0.0508	0.0508	1.00	0.105	pCi/L	03/17/23 09:53	04/11/23 10:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.1		30 - 110					03/17/23 09:53	04/11/23 10:11	1

Method: SW846 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	0.295	0.295	1.00	0.525	pCi/L	03/17/23 10:09	04/03/23 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.1		30 - 110					03/17/23 10:09	04/03/23 12:43	1
Y Carrier	85.6		30 - 110					03/17/23 10:09	04/03/23 12:43	1

Method: TAL-STL 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	0.105	U	0.299	0.299	5.00	0.525	pCi/L		04/11/23 23:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: DUP-01

Lab Sample ID: 180-153194-45

Date Collected: 03/06/23 11:21

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.119	U	0.130	0.130	1.00	0.211	pCi/L	03/17/23 09:53	04/11/23 10:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					03/17/23 09:53	04/11/23 10:11	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.186	U	0.335	0.336	1.00	0.696	pCi/L	03/17/23 10:09	04/03/23 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					03/17/23 10:09	04/03/23 12:43	1
Y Carrier	89.3		30 - 110					03/17/23 10:09	04/03/23 12:43	1

Method: TAL-STL 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	-0.0672	U	0.359	0.360	5.00	0.696	pCi/L		04/11/23 23:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: DUP-01
Date Collected: 03/06/23 11:39
Date Received: 03/08/23 09:28

Lab Sample ID: 180-153194-46
Matrix: Water

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.139	U	0.100	0.101	1.00	0.140	pCi/L	03/17/23 09:53	04/11/23 10:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					03/17/23 09:53	04/11/23 10:15	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.107	U	0.426	0.426	1.00	0.769	pCi/L	03/17/23 10:09	04/03/23 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					03/17/23 10:09	04/03/23 12:43	1
Y Carrier	81.5		30 - 110					03/17/23 10:09	04/03/23 12:43	1

Method: TAL-STL 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	0.246	U	0.438	0.438	5.00	0.769	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: DUP-02

Lab Sample ID: 180-153194-47

Date Collected: 03/06/23 16:39

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0204	U	0.0971	0.0971	1.00	0.187	pCi/L	03/17/23 09:53	04/11/23 10:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.2		30 - 110					03/17/23 09:53	04/11/23 10:15	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.14		0.633	0.642	1.00	0.899	pCi/L	03/17/23 10:09	04/03/23 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.2		30 - 110					03/17/23 10:09	04/03/23 12:43	1
Y Carrier	87.1		30 - 110					03/17/23 10:09	04/03/23 12:43	1

Method: TAL-STL 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	1.17		0.640	0.649	5.00	0.899	pCi/L		04/11/23 23:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: DUP-02

Lab Sample ID: 180-153194-48

Date Collected: 03/06/23 16:56

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.141	U	0.105	0.106	1.00	0.152	pCi/L	03/17/23 09:53	04/11/23 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.4		30 - 110					03/17/23 09:53	04/11/23 10:47	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.735		0.417	0.422	1.00	0.582	pCi/L	03/17/23 10:09	04/03/23 12:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.4		30 - 110					03/17/23 10:09	04/03/23 12:43	1
Y Carrier	87.9		30 - 110					03/17/23 10:09	04/03/23 12:43	1

Method: TAL-STL 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	0.876		0.430	0.435	5.00	0.582	pCi/L		04/11/23 23:02	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: DUP-03

Lab Sample ID: 180-153194-49

Date Collected: 03/06/23 09:42

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.175		0.120	0.121	1.00	0.166	pCi/L	03/17/23 09:53	04/11/23 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.9		30 - 110					03/17/23 09:53	04/11/23 10:48	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.07		0.638	0.646	1.00	0.940	pCi/L	03/17/23 10:09	04/03/23 12:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.9		30 - 110					03/17/23 10:09	04/03/23 12:44	1
Y Carrier	87.9		30 - 110					03/17/23 10:09	04/03/23 12:44	1

Method: TAL-STL 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	1.25		0.649	0.657	5.00	0.940	pCi/L		04/11/23 23:03	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Client Sample ID: DUP-03

Lab Sample ID: 180-153194-50

Date Collected: 03/06/23 10:12

Matrix: Water

Date Received: 03/08/23 09:28

Method: SW846 9315 - Radium-226 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0686	U	0.0806	0.0808	1.00	0.131	pCi/L	03/17/23 09:53	04/11/23 12:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		30 - 110					03/17/23 09:53	04/11/23 12:01	1

Method: SW846 9320 - Radium-228 (GFPC) - Dissolved

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.478	U	0.443	0.445	1.00	0.703	pCi/L	03/17/23 10:09	04/03/23 12:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		30 - 110					03/17/23 10:09	04/03/23 12:44	1
Y Carrier	87.9		30 - 110					03/17/23 10:09	04/03/23 12:44	1

Method: TAL-STL 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	0.547	U	0.450	0.452	5.00	0.703	pCi/L		04/11/23 23:02	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-603854/1-A
Matrix: Water
Analysis Batch: 606563

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 603854

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.006854	U	0.0481	0.0481	1.00	0.106	pCi/L	03/16/23 07:58	04/07/23 10:41	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	91.5		30 - 110				03/16/23 07:58		04/07/23 10:41	1

Lab Sample ID: LCS 160-603854/2-A
Matrix: Water
Analysis Batch: 606563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603854

Analyte	LCS		Spike	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
	%Yield	LCS Qualifier	Added	Result	Uncert. (2σ+/-)					
Radium-226			11.3	11.41	1.18	1.00	0.0785	pCi/L	101	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	94.8		30 - 110							

Lab Sample ID: LCSD 160-603854/25-A
Matrix: Water
Analysis Batch: 606587

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 603854

Analyte	LCSD		Spike	LCSD	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	Limit
	%Yield	LCSD Qualifier	Added	Result	Uncert. (2σ+/-)							
Radium-226			11.3	10.67	1.13	1.00	0.155	pCi/L	94	75 - 125	0.32	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits									
Ba Carrier	89.2		30 - 110									

Lab Sample ID: MB 160-603989/1-A
Matrix: Water
Analysis Batch: 606893

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 603989

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.01715	U	0.0408	0.0408	1.00	0.0781	pCi/L	03/17/23 08:44	04/11/23 12:12	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	93.6		30 - 110				03/17/23 08:44		04/11/23 12:12	1

Lab Sample ID: LCS 160-603989/2-A
Matrix: Water
Analysis Batch: 606893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603989

Analyte	LCS		Spike	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
	%Yield	LCS Qualifier	Added	Result	Uncert. (2σ+/-)					
Radium-226			11.3	11.49	1.19	1.00	0.0977	pCi/L	101	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-603989/2-A
Matrix: Water
Analysis Batch: 606893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603989

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	95.6		30 - 110

Lab Sample ID: LCSD 160-603989/3-A
Matrix: Water
Analysis Batch: 606893

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 603989

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec		RER	Limit
									Limits	RER		
Radium-226	11.3	11.40		1.18	1.00	0.0780	pCi/L	101	75 - 125	0.04		1

	LCSD	LCSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	95.4		30 - 110

Lab Sample ID: MB 160-603997/1-A
Matrix: Water
Analysis Batch: 606893

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 603997

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								Prepared	Analyzed	Prepared	Analyzed	
Radium-226	-0.01458	U	0.0348	0.0348	1.00	0.0884	pCi/L	03/17/23 09:53	04/11/23 10:05			1

	MB	MB	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	96.6		30 - 110

Lab Sample ID: LCS 160-603997/2-A
Matrix: Water
Analysis Batch: 606893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603997

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec	
									Limits	RER
Radium-226	11.3	11.22		1.16	1.00	0.135	pCi/L	99	75 - 125	

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	95.4		30 - 110

Lab Sample ID: LCSD 160-603997/3-A
Matrix: Water
Analysis Batch: 606893

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 603997

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec		RER	Limit
									Limits	RER		
Radium-226	11.3	11.72		1.21	1.00	0.0993	pCi/L	103	75 - 125	0.21		1

	LCSD	LCSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	88.4		30 - 110

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-603857/1-A
Matrix: Water
Analysis Batch: 605623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 603857

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.4545		0.308	0.311	1.00	0.452	pCi/L	03/16/23 09:45	03/30/23 12:11	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	91.5		30 - 110				03/16/23 09:45		03/30/23 12:11	1
Y Carrier	83.7		30 - 110				03/16/23 09:45		03/30/23 12:11	1

Lab Sample ID: LCS 160-603857/2-A
Matrix: Water
Analysis Batch: 605623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603857

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.08	9.981		1.32	1.00	0.466	pCi/L	124	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	94.8		30 - 110						
Y Carrier	81.5		30 - 110						

Lab Sample ID: LCSD 160-603857/25-A
Matrix: Water
Analysis Batch: 605624

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 603857

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER
				Uncert. (2σ+/-)							Limit
Radium-228	8.08	10.32		1.36	1.00	0.479	pCi/L	128	75 - 125	0.13	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	89.2		30 - 110								
Y Carrier	87.5		30 - 110								

Lab Sample ID: MB 160-603994/1-A
Matrix: Water
Analysis Batch: 605835

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 603994

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.004336	U	0.346	0.346	1.00	0.636	pCi/L	03/17/23 09:25	04/03/23 12:39	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	93.6		30 - 110				03/17/23 09:25		04/03/23 12:39	1
Y Carrier	90.5		30 - 110				03/17/23 09:25		04/03/23 12:39	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-603994/2-A
Matrix: Water
Analysis Batch: 605835

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603994

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									75	125
Radium-228	8.06	9.197		1.24	1.00	0.486	pCi/L	114	75 - 125	
Carrier		LCS %Yield	LCS Qualifier	Limits						
Ba Carrier		95.6		30 - 110						
Y Carrier		92.3		30 - 110						

Lab Sample ID: LCSD 160-603994/3-A
Matrix: Water
Analysis Batch: 605835

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 603994

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		RER	RER Limit
									75	125	0.46	1
Radium-228	8.06	8.097		1.18	1.00	0.669	pCi/L	100	75 - 125	0.46	1	
Carrier		LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier		95.4		30 - 110								
Y Carrier		87.9		30 - 110								

Lab Sample ID: MB 160-603999/1-A
Matrix: Water
Analysis Batch: 605833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 603999

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								03/17/23 10:09	04/03/23 12:45	04/03/23 12:45	12:45	1
Radium-228	0.5812		0.345	0.349	1.00	0.496	pCi/L	03/17/23 10:09	04/03/23 12:45	04/03/23 12:45	12:45	1
Carrier		MB %Yield	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac		
Ba Carrier		96.6		30 - 110				03/17/23 10:09	04/03/23 12:45	04/03/23 12:45		1
Y Carrier		87.5		30 - 110				03/17/23 10:09	04/03/23 12:45	04/03/23 12:45		1

Lab Sample ID: LCS 160-603999/2-A
Matrix: Water
Analysis Batch: 605833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 603999

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									75	125
Radium-228	8.06	8.795		1.23	1.00	0.484	pCi/L	109	75 - 125	
Carrier		LCS %Yield	LCS Qualifier	Limits						
Ba Carrier		95.4		30 - 110						
Y Carrier		84.5		30 - 110						

QC Sample Results

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCSD 160-603999/3-A
Matrix: Water
Analysis Batch: 605833

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 603999

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	8.06	9.655		1.37	1.00	0.621	pCi/L	120	75 - 125	0.33	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	88.4		30 - 110
Y Carrier	82.2		30 - 110

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QC Association Summary

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Rad

Prep Batch: 603854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-1	SW-1-1'	Total/NA	Water	PrecSep-21	
180-153194-2	SW-1-1'	Dissolved	Water	PrecSep-21	
180-153194-3	SW-1-7'	Total/NA	Water	PrecSep-21	
180-153194-4	SW-1-7'	Dissolved	Water	PrecSep-21	
180-153194-5	SW-2-1'	Total/NA	Water	PrecSep-21	
180-153194-6	SW-2-1'	Dissolved	Water	PrecSep-21	
180-153194-7	SW-2-7'	Total/NA	Water	PrecSep-21	
180-153194-8	SW-2-7'	Dissolved	Water	PrecSep-21	
180-153194-9	SW-3-1'	Total/NA	Water	PrecSep-21	
180-153194-10	SW-3-1'	Dissolved	Water	PrecSep-21	
MB 160-603854/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-603854/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-603854/25-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 603857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-1	SW-1-1'	Total/NA	Water	PrecSep_0	
180-153194-2	SW-1-1'	Dissolved	Water	PrecSep_0	
180-153194-3	SW-1-7'	Total/NA	Water	PrecSep_0	
180-153194-4	SW-1-7'	Dissolved	Water	PrecSep_0	
180-153194-5	SW-2-1'	Total/NA	Water	PrecSep_0	
180-153194-6	SW-2-1'	Dissolved	Water	PrecSep_0	
180-153194-7	SW-2-7'	Total/NA	Water	PrecSep_0	
180-153194-8	SW-2-7'	Dissolved	Water	PrecSep_0	
180-153194-9	SW-3-1'	Total/NA	Water	PrecSep_0	
180-153194-10	SW-3-1'	Dissolved	Water	PrecSep_0	
MB 160-603857/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-603857/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-603857/25-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 603989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-11	SW-3-4'	Total/NA	Water	PrecSep-21	
180-153194-12	SW-3-4'	Dissolved	Water	PrecSep-21	
180-153194-13	SW-4-1.5	Total/NA	Water	PrecSep-21	
180-153194-14	SW-4-1.5	Dissolved	Water	PrecSep-21	
180-153194-15	SW-5-1'	Total/NA	Water	PrecSep-21	
180-153194-16	SW-5-1'	Dissolved	Water	PrecSep-21	
180-153194-17	SW-5-13'	Total/NA	Water	PrecSep-21	
180-153194-18	SW-5-13'	Dissolved	Water	PrecSep-21	
180-153194-19	SW-6-1'	Total/NA	Water	PrecSep-21	
180-153194-20	SW-6-1'	Dissolved	Water	PrecSep-21	
180-153194-21	SW-6-9.5	Total/NA	Water	PrecSep-21	
180-153194-22	SW-6-9.5	Dissolved	Water	PrecSep-21	
180-153194-23	SW-9-1'	Total/NA	Water	PrecSep-21	
180-153194-24	SW-9-1'	Dissolved	Water	PrecSep-21	
180-153194-25	SW-9-4'	Total/NA	Water	PrecSep-21	
180-153194-26	SW-9-4'	Dissolved	Water	PrecSep-21	
180-153194-27	SW-10-2'	Total/NA	Water	PrecSep-21	
180-153194-28	SW-10-2'	Dissolved	Water	PrecSep-21	
180-153194-29	SW-11-1'	Total/NA	Water	PrecSep-21	

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QC Association Summary

Client: Southern Company
Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Rad (Continued)

Prep Batch: 603989 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-30	SW-11-1'	Dissolved	Water	PrecSep-21	
MB 160-603989/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-603989/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-603989/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 603994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-11	SW-3-4'	Total/NA	Water	PrecSep_0	
180-153194-12	SW-3-4'	Dissolved	Water	PrecSep_0	
180-153194-13	SW-4-1.5	Total/NA	Water	PrecSep_0	
180-153194-14	SW-4-1.5	Dissolved	Water	PrecSep_0	
180-153194-15	SW-5-1'	Total/NA	Water	PrecSep_0	
180-153194-16	SW-5-1'	Dissolved	Water	PrecSep_0	
180-153194-17	SW-5-13'	Total/NA	Water	PrecSep_0	
180-153194-18	SW-5-13'	Dissolved	Water	PrecSep_0	
180-153194-19	SW-6-1'	Total/NA	Water	PrecSep_0	
180-153194-20	SW-6-1'	Dissolved	Water	PrecSep_0	
180-153194-21	SW-6-9.5	Total/NA	Water	PrecSep_0	
180-153194-22	SW-6-9.5	Dissolved	Water	PrecSep_0	
180-153194-23	SW-9-1'	Total/NA	Water	PrecSep_0	
180-153194-24	SW-9-1'	Dissolved	Water	PrecSep_0	
180-153194-25	SW-9-4'	Total/NA	Water	PrecSep_0	
180-153194-26	SW-9-4'	Dissolved	Water	PrecSep_0	
180-153194-27	SW-10-2'	Total/NA	Water	PrecSep_0	
180-153194-28	SW-10-2'	Dissolved	Water	PrecSep_0	
180-153194-29	SW-11-1'	Total/NA	Water	PrecSep_0	
180-153194-30	SW-11-1'	Dissolved	Water	PrecSep_0	
MB 160-603994/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-603994/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-603994/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 603997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-31	SW-12-1'	Total/NA	Water	PrecSep-21	
180-153194-32	SW-12-1'	Dissolved	Water	PrecSep-21	
180-153194-33	SW-13-1'	Total/NA	Water	PrecSep-21	
180-153194-34	SW-13-1'	Dissolved	Water	PrecSep-21	
180-153194-35	SW-14-1.5	Total/NA	Water	PrecSep-21	
180-153194-36	SW-14-1.5	Dissolved	Water	PrecSep-21	
180-153194-37	SW-15-1.5	Total/NA	Water	PrecSep-21	
180-153194-38	SW-15-1.5	Dissolved	Water	PrecSep-21	
180-153194-39	SW-16-1.5	Total/NA	Water	PrecSep-21	
180-153194-40	SW-16-1.5	Dissolved	Water	PrecSep-21	
180-153194-41	EB-01	Total/NA	Water	PrecSep-21	
180-153194-42	SW-17-1'	Total/NA	Water	PrecSep-21	
180-153194-43	SW-17-1'	Dissolved	Water	PrecSep-21	
180-153194-44	FB-01	Total/NA	Water	PrecSep-21	
180-153194-45	DUP-01	Total/NA	Water	PrecSep-21	
180-153194-46	DUP-01	Dissolved	Water	PrecSep-21	
180-153194-47	DUP-02	Total/NA	Water	PrecSep-21	
180-153194-48	DUP-02	Dissolved	Water	PrecSep-21	

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QC Association Summary

Client: Southern Company
 Project/Site: Plant Watson Surface Water

Job ID: 180-153194-2

Rad (Continued)

Prep Batch: 603997 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-49	DUP-03	Total/NA	Water	PrecSep-21	
180-153194-50	DUP-03	Dissolved	Water	PrecSep-21	
MB 160-603997/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-603997/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-603997/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 603999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-153194-31	SW-12-1'	Total/NA	Water	PrecSep_0	
180-153194-32	SW-12-1'	Dissolved	Water	PrecSep_0	
180-153194-33	SW-13-1'	Total/NA	Water	PrecSep_0	
180-153194-34	SW-13-1'	Dissolved	Water	PrecSep_0	
180-153194-35	SW-14-1.5	Total/NA	Water	PrecSep_0	
180-153194-36	SW-14-1.5	Dissolved	Water	PrecSep_0	
180-153194-37	SW-15-1.5	Total/NA	Water	PrecSep_0	
180-153194-38	SW-15-1.5	Dissolved	Water	PrecSep_0	
180-153194-39	SW-16-1.5	Total/NA	Water	PrecSep_0	
180-153194-40	SW-16-1.5	Dissolved	Water	PrecSep_0	
180-153194-41	EB-01	Total/NA	Water	PrecSep_0	
180-153194-42	SW-17-1'	Total/NA	Water	PrecSep_0	
180-153194-43	SW-17-1'	Dissolved	Water	PrecSep_0	
180-153194-44	FB-01	Total/NA	Water	PrecSep_0	
180-153194-45	DUP-01	Total/NA	Water	PrecSep_0	
180-153194-46	DUP-01	Dissolved	Water	PrecSep_0	
180-153194-47	DUP-02	Total/NA	Water	PrecSep_0	
180-153194-48	DUP-02	Dissolved	Water	PrecSep_0	
180-153194-49	DUP-03	Total/NA	Water	PrecSep_0	
180-153194-50	DUP-03	Dissolved	Water	PrecSep_0	
MB 160-603999/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-603999/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-603999/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Chain of Custody Record

Sampler: *Rich + Laura / JMS* Lab PM: Brown, Shali
 Client Contact: *Hogendoxer / Nureis* Phone: *850-336-0192* E-Mail: shali.brown@eurofinset.com
 Company: SCS

Address: 3535 Colonnade Pkwy Bin S 530 EC
 City: Birmingham
 State, Zip: AL, 35243
 Phone: 205-992-6283
 Email: SCS Contacts
 Project Name: 18020186
 Plant Name: Plant Watson
 Site: Ash Pond (Surface Water)

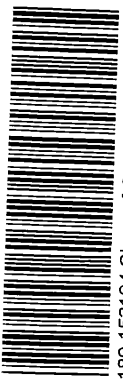
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, Asst)	Analysis Requested		Field Filtered Sample (Yes or No)	300_28Day Chloride Fluoride Sulfate	6020B/470_Cadmium 66/11/As/PPV/9 + Mercury	9315_Ra226 Radium 226	9320_Ra228 Radium 228	Combined RAD	Total Number of containers	Special Instructions/Note:
					Preservation Code	Depth								
SW-1 -1'	3-6-23	1739	G	SW			X	X	X	X	X	X	1	DEPTH GOES HERE
SW-1 -1'	3-6-23	1756	G	SW			X	X	X	X	X	X	1	DEPTH GOES HERE
SW-1 -7'	3-6-23	1813	G	SW			X	X	X	X	X	X	7	DEPTH GOES HERE
SW-1 -7'	3-6-23	1825	G	SW			X	X	X	X	X	X	7	DEPTH GOES HERE
SW-2 -1'	3-6-23	1650	G	SW			X	X	X	X	X	X	1	DEPTH GOES HERE
SW-2 -1'	3-6-23	1703	G	SW			X	X	X	X	X	X	1	DEPTH GOES HERE
SW-2 -7'	3-6-23	1714	G	SW			X	X	X	X	X	X	7	DEPTH GOES HERE
SW-2 -7'	3-6-23	1723	G	SW			X	X	X	X	X	X	7	DEPTH GOES HERE
SW-3 -1'	3-6-23	0912	G	SW			X	X	X	X	X	X	1	DEPTH GOES HERE
SW-3 -1'	3-6-23	0925	G	SW			X	X	X	X	X	X	1	DEPTH GOES HERE
SW-3 -4'	3-6-23	0939	G	SW			X	X	X	X	X	X	4	DEPTH GOES HERE

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month):
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: *My AP* Date/Time: 3-7-23 1604 Company: KDK GW
 Relinquished by: *[Signature]* Date/Time: 3-8-23 1800 Company: ERANE
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No



180-153194 Chain of Custody

Page 1 of 6



Client Information
 Client Contact: Henry Adams / TAD
 SCS Contacts: Henry Adams / TAD
 Phone: 850-326-0192
 E-Mail: shali.brown@eurofinset.com

Sampler: Shali Brown / TAD
 Lab P.M.: Brown, Shali
 E-Mail: shali.brown@eurofinset.com

Address: 3535 Colonnade Pkwy Bin S 530 EC
 Birmingham
 State, Zip: AL, 35243
 Phone: 205-992-6283
 Email: SCS
 SCS Contacts: SCS
 Project Name: Plant Watson
 Project #: 18020186
 Site: Ash Pond (Surface Water)

Due Date Requested:
 TAT Requested (days):
 PO #:
 WO #:
 Project #:
 SSO#:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, B=bottom, A=air)	Field Filtered Sample (Yes or No)	300 28Day Chloride Fluoride Sulfate	6020B/7470 Gypsum (8 (AP/II/AP/IV)+9) + Mercury	9315_Ra226 Radium 226	9320_Ra228 Radium 228	Combined RAD	Total Number of Containers	Special Instructions/Note:
SW-3 - 4'	3-6-23	0950	G	SW	X	X	X	X	X	X	X	Depth = 4 ft
SW-4 - 1.5'	3-6-23	1137	G	SW	X	X	X	X	X	X	X	Depth = 1.5 ft
SW-4 - 1.5'	3-6-23	1145	G	SW	X	X	X	X	X	X	X	Depth = 1.5 ft
SW-5 - 1'												
SW-5 - 1'												
SW-5 - 13'	3-6-23	0803	G	SW	X	X	X	X	X	X	X	Depth = 1 ft
SW-5 - 13'	3-6-23	0819	G	SW	X	X	X	X	X	X	X	Depth = 1 ft
SW-5 - 13'	3-6-23	0835	G	SW	X	X	X	X	X	X	X	Depth = 13 ft
SW-6 - 1'	3-6-23	0853	G	SW	X	X	X	X	X	X	X	Depth = 13 ft
SW-6 - 1'	3-6-23	0921	G	SW	X	X	X	X	X	X	X	Depth = 1 ft
SW-6 - 1'	3-6-23	0938	G	SW	X	X	X	X	X	X	X	Depth = 1 ft

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: my HA Date: 3-7-23 Time: 1604
 Relinquished by: my HA Date: 3-7-23 Time: 1604
 Relinquished by: my HA Date: 3-7-23 Time: 1604

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:
 Received by: my HA Date/Time: 3-8-23 9:28 Company: CRANE
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____
 Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record

Client Information Client Contact: <i>Hylander / Voreis</i> SCS Contacts Company: SCS		Lab PII: Brown, Shali E-Mail: shali.brown@eurolins.com		Carrier Tracking No(s): Page: <i>Page 3 of 6</i> Job #:		COC No:						
Address: 3535 Colonnade Pkwy Bin S 630 EC City: Birmingham State/Zip: AL, 35243 Phone: 205-992-6283 Email:		Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 18020186 SOW #:		Analysis Requested 300 28Day Chloride Fluoride Sulfate 6020B/7470 ELEM 22 (AP/II/AP/IV+9) + Mercury 9315 Ra226 Radium 226 9320 Ra228 Radium 228 Combined RAD		Total Number of Containers:						
Site: Ash Pond (Surface Water)		Field Filtered Sample (Yes or No)		Preservation Codes: M - Hexane A - HCL B - NaOH N - None O - AsNaO2 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:		Special Instructions/Note: DEPTH GOES HERE						
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil)	Preservation Code	300 28Day Chloride Fluoride Sulfate	6020B/7470 ELEM 22 (AP/II/AP/IV+9) + Mercury	9315 Ra226 Radium 226	9320 Ra228 Radium 228	Combined RAD	Total Number of Containers	Special Instructions/Note
SW-6-9.5	3-6-23	0953	G	SW		X	X	X	X	X		Depth = 9.5 ft
SW-6-9.5	3-6-23	1010	G	SW		X	X	X	X	X		Depth = 9.5 ft
SW-9-1'	3-6-23	1306	G	SW		X	X	X	X	X		Depth = 1 ft
SW-9-1'	3-6-23	1322	G	SW		X	X	X	X	X		Depth = 1 ft
SW-9-4'	3-6-23	1331	G	SW		X	X	X	X	X		Depth = 4 ft
SW-9-4'	3-6-23	1345	G	SW		X	X	X	X	X		Depth = 4 ft
SW-10-2'	3-6-23	1231	G	SW		X	X	X	X	X		Depth = 2 ft
SW-10-2'	3-6-23	1248	G	SW		X	X	X	X	X		Depth = 2 ft
SW-10-RDN 3-2-23				SW		X	X	X	X	X		Depth = 1 ft
SW-10-RDN 3-7-23				SW		X	X	X	X	X		Depth = 1 ft
SW-11-2' RDN 3-2-23 - 1'	3-6-23	1208	G	SW		X	X	X	X	X		Depth = 1 ft
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:												
Deliverable Requested: <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												
Empty Kit Relinquished by: _____ Date: _____												
Relinquished by: <i>myk</i> Date: <i>3-7-23 1604</i> Company: <i>ROH EW</i>												
Relinquished by: _____ Date: _____ Company: _____												
Relinquished by: _____ Date: _____ Company: _____												
Custody Seals Intact: _____ (Custody Seal No.: _____)												

Chain of Custody Record

Client Information Client Contact: Angela... SCS Contacts: 850-336-0192 Company:		Lab PM: Brown, Shall E-Mail: shall.brown@eurofinset.com	
Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: AL, 35243 Phone: 205-992-6283 Email:		Due Date Requested: TAT Requested (days): PO #: WOC #: Project #: Plant Name: 18020186 Site: SSOW#: Ash Pond (Surface Water)	
Carrier Tracking No(s):			
Analysis Requested			
6020B/470 604-37-23 300 28Day Chloride Fluoride Sulfate + Mercury	9315 Ra226 Radium 226 9320 Ra228 Radium 228 Combined RAD	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 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)
Sample Identification SW-11 -1 SW-11 RDH 3-7-23 SW-11 RDH 3-7-23 SW-12 -1' SW-12 -1' SW-12 RDH 3-7-23 SW-12 RDH 3-7-23 SW-13 -1' SW-13 -1' SW-13 RDH 3-7-23 SW-13 RDH 3-7-23	Sample Date 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23 3-6-23	Sample Time 1151 1042 1112 1221 1239	Matrix (W=water, S=solid, O=water/Oil, etc-Issue, A=Air) SW SW SW SW SW SW SW SW SW
Special Instructions/Note: DEPTH GOES HERE Depth = 1 ft Depth = Depth = Depth = 1 ft Depth = 1 ft Depth = Depth = Depth = 1 ft Depth = 1 ft Depth = Depth =			
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:			
Deliverable Requested: <input type="checkbox"/> I, <input type="checkbox"/> II, <input type="checkbox"/> III, <input type="checkbox"/> IV, Other (specify)			
Empty Kit Relinquished by:			
Relinquished by: Angela... Relinquished by:		Date: 3-7-23 Date/Time: 1604 Date/Time:	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.	

Chain of Custody Record

Sampler: Ave of Lakes / 100DS Lab PM: Brown, Shali
 Client Contact: Hopendaxfo / 100DS E-Mail: shali.brown@eurofinset.com
 SCS Contacts: 850-336-0192
 Company: Page 5 of 6

Address: 3535 Colonnade Pkwy Bin S 530 EC
 City: Birmingham
 State, Zip: AL, 35243
 Phone: 205-992-6283
 Email:
 SCS Contacts:
 Project Name: 18020186
 Plant Name: Watson
 Site: Ash Pond (Surface Water)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, etc-tissue, A=air)	Field Filtered Sample (Yes or No)	300 28Day Chloride Fluoride Sulfate	6020B1740-Custom 28 (App/Alp/IV+9) + Mercury	9315 Ra226 Radium 226	9320 Ra228 Radium 228	Combined RAD	Total Number of Containers	DEPTH GOES HERE
SW-14 - 1.5	3-6-23	1314	G	SW	X	X	X	X	X	X	X	1.5 ft
SW-14 - 1.5	3-6-23	1329	G	SW	X	X	X	X	X	X	X	1.5 ft
SW-14 ADH 3-7-23				SW								
SW-14 ADH 3-7-23				SW								
SW-15 - 1.5	3-6-23	1350	G	SW	X	X	X	X	X	X	X	1.5 ft
SW-15 - 1.5	3-6-23	1410	G	SW	X	X	X	X	X	X	X	1.5 ft
SW-15 ADH 3-7-23				SW								
SW-15 ADH 3-7-23				SW								
SW-16 - 1.5	3-6-23	1448	G	SW	X	X	X	X	X	X	X	1.5 ft
SW-16 - 1.5	3-6-23	1508	G	SW	X	X	X	X	X	X	X	1.5 ft
SW-16 ADH 3-7-23				SW								

Special Instructions/Note: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: Ray Agre Date/Time: 3-7-23 Company: ROH
 Relinquished by: Shali Brown Date/Time: 3-8-23 Company: CHANE
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: _____

Chain of Custody Record

Client Information		Sampler: <i>River Water / TOPP</i> Client Contact: <i>Headquarters / Voreis</i> Phone: <i>850-336-0192</i> E-Mail: <i>shali.brown@eurofinset.com</i>	
Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State/Zip: AL, 35243 Phone: 205-992-6283 Email: SCS Contacts: Project Name: 18020186 Plant: Watson Site: Ash Pond (Surface Water)		Lab PW: Brown, Shali Carrier Tracking No(s): Job#: <i>Page 6 of 6</i>	
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 18020186 SOW#:		Analysis Requested 6020B/7470 Custom 28 (AppII/ApIV/9) + Mercury 300 28Day Chloride Fluoride Sulfate 9315_Ra226 Radium 226 9320_Ra228 Radium 228 Combined RAD	
Sample Identification SW-16 <i>ASH 3-7-23 EB-01</i> SW-17 <i>-1</i> SW-17 <i>-1</i> SW-17 <i>ASH 3-7-23 FB-01</i> SW-17 <i>ASH 3-7-23</i> DUP-01 DUP-01 DUP-02 DUP-02 DUP-03 DUP-03		Field Filtered Sample (Yes or No) Matrix (W=water, S=solid, O=soil, B=BT-Tissue, A=Air) Sample Type (C=Comp, G=grab) Sample Time Sample Date Preservation Code SW SW SW SW SW G G G G G G	
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		Total Number of Containers Depth = <i>total only</i> Depth = <i>1ft</i> Depth = <i>1ft</i> Depth = <i>total only</i> Depth = Depth = Depth = Depth = Depth = Depth =	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/Note: Special Instructions/QC Requirements: Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by: Relinquished by: <i>Amey M...</i> Relinquished by: Relinquished by:		Method of Shipment: Date/Time: <i>3-8-23 9:28</i> Date/Time: Date/Time:	
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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Recipient's Name <i>Please print.</i>	Phone Number
	()
Dept./Floor/Suite/Room	

ORIGIN ID: BIXA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 75.40 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

Part # 150297435-9402929EX-12/23

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH PA 15238

(850) 336-0192 REF: DEPT:

Uncorrected temp 3.0 °C
Thermometer ID 18
CF 0.1 Initials MS
PT-WI-SR-001 effective 11/8/18



7 of 12
MPS# 3954 6846 9146
Mstr# 3954 6846 9087 0201
XN AGCA
WED - 08 MAR 10:30A
PRIORITY OVERNIGHT
15238
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ORIGIN ID:BIXA (850) 336-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWTG: 68.00 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN

BILL THIRD PARTY

Part # 15629743424242023EXP 12/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

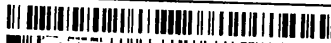
PITTSBURGH PA 15238

(850) 336-0192

REF:

NU:

DEPT:



Uncorrected temp
Thermometer ID

3.2 °C
18

CF 0.1 Initials MD

PT-WI-SR-001 effective 11/8/18

FedEx
Express



10 of 12

MPS# 0263 3954 6846 9179

Mstr# 3954 6846 9087

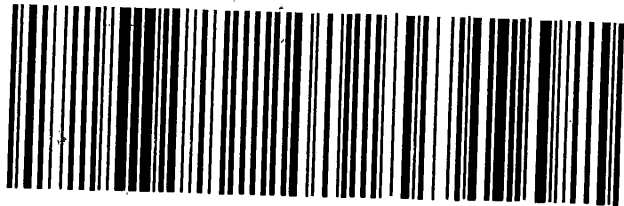
0201

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238

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Recipient's Name Please print.

Phone Number

ORIGIN ID: BIXA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWT: 69.00 LB
CAD: 6993800/55FE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

Part # 156297238928102 BCS EXP 12/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192
REF: DEPT:



Uncorrected temp
Thermometer ID

2.7 °C

CF 0.1 Initials MO.

PT-VII-SR-001 effective 11/8/18



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5 of 12
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0263
Metr# 3954 6846 9087

0201

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TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWT: 68.00 LB
CAD: 6993800/85FE2401
DIMS: 23x14x13 IN

BILL THIRD PARTY

Part #: 1502914202#R0003#EXP 12/23

TO

**TESTAMERICA PITTSBURGH LAB
301 ALPHA DR**

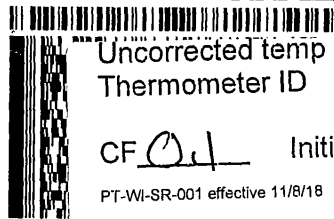
PITTSBURGH PA 15238

(850) 336-0192

REF:

TNU:
PO:

DEPT:



Uncorrected temp
Thermometer ID

25 °C
18

CF Oil Initials MO

PT-WI-SR-001 effective 11/8/18

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9 of 12

MPS# 3954 6846 9168
0263

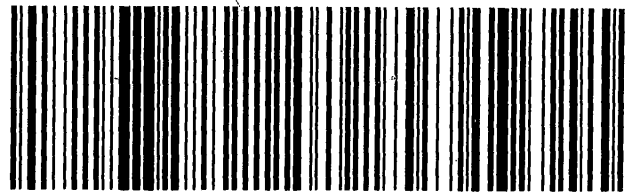
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0201

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Phone Number

ORIGIN ID:BIXA (850) 336-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 67.60 LB
CAD: 6993900/SSFE2401
DIMS: 23x14x13 IN

BILL THIRD PARTY

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192

REF:

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DEPT:



Uncorrected temp 2.6 °C
Thermometer ID 18

CF U.J Initials Mo

PT-VI-SR-001 effective 11/8/18

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Express



6 of 12

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

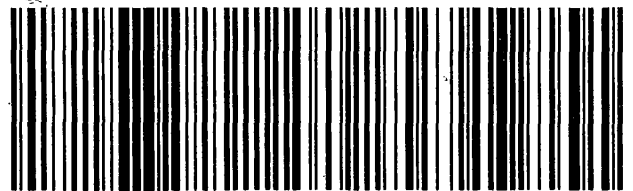
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Mstr# 3954 6846 9087

0201

XN AGCA

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ORIGIN ID:BIXA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 76.60 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

Part # 156297829288238383 EXCP 12/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192 REF: INU: PO: DEPT:



Uncorrected temp 2.5 °C
Thermometer ID 18

CF 0.1 Initials Mo

PT-WI-SR-001 effective 11/8/18

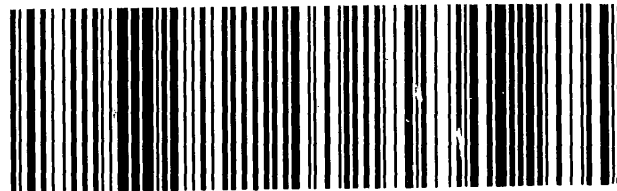


8 of 12
MPS# 3954 6846 9157
0263
Mstr# 3054 6846 9087

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PRIORITY OVERNIGHT

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15238
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or barcoded Label Here

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Recipient's Name <i>Please print.</i>	Phone Number
ORIGIN ID: BIXA (850) 336-0192 TESTAMERICA PITTSBURGH LAB 301 ALPHA DR PITTSBURGH, PA 15238 UNITED STATES US	SHIP DATE: 07MAR23 ACTWT: 71.85 LB CAD: 6993800/SSFE2401 DIMS: 23x14x13 IN BILL THIRD PARTY

Part #: 15239742344480238ECP-12/23

TO


**TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH PA 15238**

(850) 336-0192

REF:

THU:

DEPT:



FedEx Express	AN1011182301427
Uncorrected temp _____ C	2.5
Thermometer ID _____	B
CF <u>O.I</u> Initials <u>MO</u>	
PT-WI-SR-001 effective 11/9/18	

11 of 12
MPS# **3954 6846 9180**
0263
Mstr# 3954 6846 9087

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PRIORITY OVERNIGHT**

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ORIGIN ID: BIXA (850) 336-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 66.65 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN

BILL THIRD PARTY

Part # 156297426/FRN052/REP-12/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192

REF:

INV:

DEPT:



Uncorrected temp
Thermometer ID

3.0 °C
18

CF 0.1 Initials MD

PT-WI-SR-001 effective 11/8/18

FedEx
Express



AN101111022011237

2 of 12

MPS# 3954 6846 9098

Mstr# 3954 6846 9087

0261

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US PIT



Courier or Driver: Place Astra or Barcoded Label Here

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Do Not Lift Using This Tag

Shipper Name Please Print ORIGIN ID: BIXA (850) 336-0192 TESTAMERICA PITTSBURGH LAB 301 ALPHA DR PITTSBURGH, PA 15238 UNITED STATES US		Phone Number SHIP DATE: 07MAR23 ACTWGT: 71.30 LB CAD: 6993800/SSFE2401 DIMS: 23x14x13 IN BILL THIRD PARTY
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TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238
 (850) 336-0192 REF:

INVT UNCORRECTED TEMP THERMOMETER ID CF <u>Oil</u> Initials <u>ms</u> PT-WI-SR-001 effective 11/8/18	DEPT: <u>2.7</u> °C <u>18</u>
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1 of 12
 TRK# 0201 3954 6846 9087
 ## MASTER ##

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
 PA-US **PIT**



Courier or Driver: Place Astra or Barcoded Label Here

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ORIGIN ID: BIXM (850) 336-0192
 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US

SHIP DATE: 07MAR23
 ACTWGT: 62.15 LB
 CAD: 6993800/SSFE2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY

TO
 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH PA 15238
 (850) 336-0192

INVT
 PO1
 (REF)
 DEPT:
 Uncorrected temp
 Thermometer ID

CF Q.I. Initials MR
 PT-WI-SR-001 effective 11/8/18



3 of 12
 MPS# 0263 3954 6846 9102
 Mstr# 3954 6846 9087

WED - 08 MAR 10:30A
 PRIORITY OVERNIGHT

XN AGCA

15238
 PA-US PIT



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ORIGIN ID: BIXA (850) 336-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 78.15 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN

BILL THIRD PARTY

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192

REF:

THU:

DEPT:



Uncorrected temp 2.3 °C

Thermometer ID 18

CF Ocl Initials MO

PT-WI-SR-001 effective 11/8/18

FedEx
Express



AM101106201327

4 of 12

MPS# 3954 6846 9113
0263

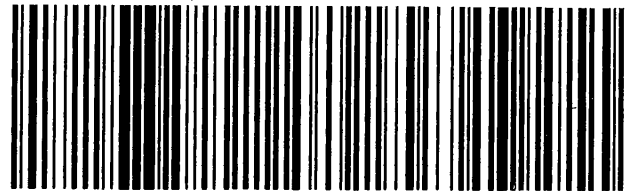
Mstr# 3954 6846 9087

0201

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



Courier or Driver: Place Astra or Barcoded Label Here

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Do Not Lift Using This Tag

Recipient's Name <i>Please print.</i>	Phone Number
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Dept./Floor/Suite/Room	

ORIGIN ID: BIXA (850) 336-0192
 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US

SHIP DATE: 07MAR23
 ACTWGT: 75.40 LB
 CAD: 6993800/SSFE2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY

Part # 156296230-982092EX-12/23

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

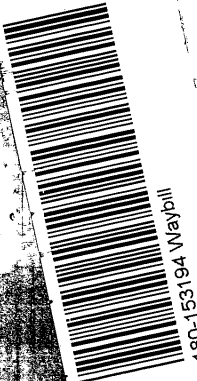
(850) 336-0192
 INVT
 PO1

REF:

DEPT:

Uncorrected temp 3.0 °C
 Thermometer ID 18
 CF 0.1 Initials MS
 PT-WI-SR-001 effective 11/8/18

FedEx
Express



7 of 12
 MPS# 3954 6846 9146
 Mstr# 3954 6846 9087

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

0201

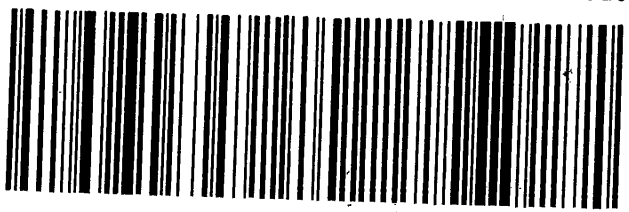
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15238
 PA-US PIT



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15238 PA-US PIT

XN AGCA

MPS# 3954 6846 9179
Matr# 3954 6846 9087

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT



PT-VI-SR-001 effective 11/8/18

CF 0.1 Initials *Ms*

Thermometer ID *18*

Uncorrected temp *2.2* °C

PITTSBURGH PA 15238

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

SHIP DATE: 07MAR23
ACTWGT: 88.00 LB
CAD: 6993800/SSF22401
DIMS: 23x14x13 IN
PITTSBURGH, PA 15238
UNITED STATES US

Do Not Lift Using This Tag

Part # 1562912432CNRZ028EXP 12/23

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Convert Price Astra or Barcoded Label Here



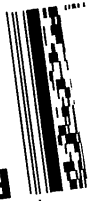
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PA-US
15238
PIT

MPS# 3954 6846 9124
Mstr# 3954 6846 9087
0263
0201

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

PT-M-SR-001 effective 11/6/18



Mo. 18
2.7 °C

Uncorrected temp
Thermometer ID
Initials CF O.T.



PITTSBURGH PA 15238
REF: (650) 386-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

Part # 1562974888 0860 0505 P 12/23

SHIP DATE: 07MAR23
ACTWGT: 69.00 LB
CDD: 6993800/SSFE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

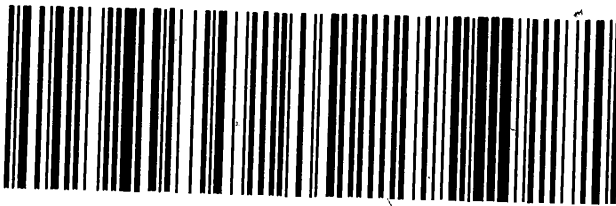
ORIGIN ID: B1XA (650) 386-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

Phone Number
Recipient's Name Please print.

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Courier or Driver: Place Astra or Barcoded Label Here



PA-US
15238
PIT

XN AGCA

MPS# 3954 6846 9168
Met# 3954 6846 9087

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT



Uncorrected temp
Thermometer ID
Initials
PT-WI-SR-001 effective 11/8/18

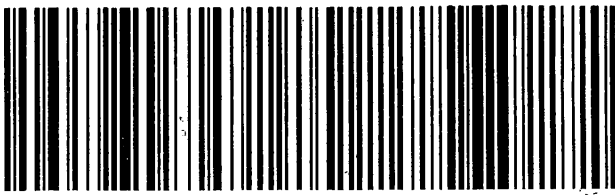
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH PA 15238

ORIGIN ID: BIXA (850) 396-0192

SHIP DATE: 07MAR23
ACTWGT: 68.00 LB
CAD: 699800/SFE2401
DIMS: 23X14X13 IN
BILL THIRD PARTY

Do Not Lift Using This Tag

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15238 PA-US PIT

XN AGCA

MPS# 3954 6846 9135 0263

6 of 12

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

0201

Part # 15629 74498 494062 EXP 12/23



Uncorrected temp 2.6 °C
Thermometer ID 18
CF Initials G.V.
No

PT-WI-SR-001 effective 11/8/18

DEPT: INV: (850) 336-0192 REF:

PITTSBURGH PA 15238

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

10

ORIGIN ID: BIXA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 67.60 LB
CAD: 6993800/SFE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

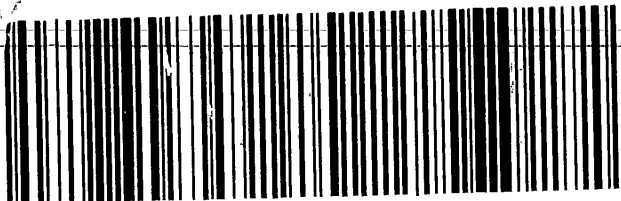
Phone Number

Recipient's Name Please Print

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XN AGCA
 Met# 3954 6846 9087
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 MP# 3954 6846 9157
 8 of 12
WED - 08 MAR 10:30A
PRIORITY OVERNIGHT
 15238 PA-US PIT

PT-WI-SR-001 effective 11/8/18
 CF O.I. Initials
 Mo
 Thermometer ID
 Uncorrected temp
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edex
 Express
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SHIP DATE: 07MAR23
 ACTWGT: 26.60 LB
 CAD: 6983800/SSFE2401
 DIMS: 23x14x13 IN
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 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US
 REF: (850) 396-0192
 DEPT: (850) 396-0192
 PITTSBURGH PA 15238

Do Not Lift Using This Tag

Part # 1562912382PWR0631EXF 12/23

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PA-US
15238
PIT

XN AGCA

Mstr# 3954 6846 9087 0201

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

MPS# 3954 6846 9180

11 of 12



AN1011022012Z

PT-WI-SR-001 effective 11/9/18

CF O.T Initials Mo

Uncorrected temp
Thermometer ID

25
18

PITTSBURGH PA 15238

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

Part # 15629 (EXP) 12/23

SHIP DATE: 02MAR23
ACTWGT: 21.85 LB
CAD: 6993800/SSF2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

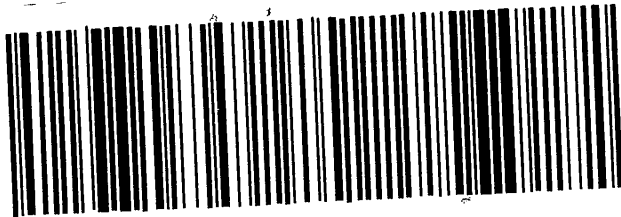
Recipient's Name Please print.

Phone Number

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15238 PA-US PIT

XN AGCA

MPS# 3954 6846 9098
 Mstr# 3954 6846 9087
 0263
 2 of 12

WED - 08 MAR 10:30A
 PRIORITY OVERNIGHT

PT-WI-SR-001 effective 11/8/18

CF D.T. Initials Ma

Thermometer ID 18

Uncorrected temp 3.0 °C

FedEx Express

AN0110820182Z

Part # 1562914882 PRN0623 EXP 12/23

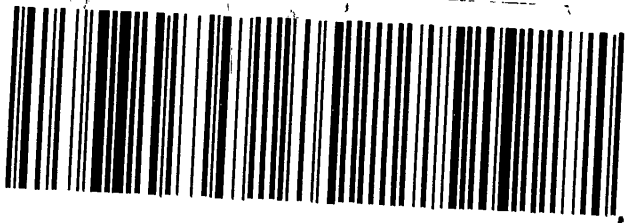
TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH PA 15238

SHIP DATE: 07MAR23
 ACTWGT: 66.65 LB
 CAD: 6993800/SSFE2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY

ORIGIN ID: B1XA (850) 336-0192
 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US

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Courier or Driver: Place Astra or Barcoded Label Here



15238 PA-US PIT

XN AGCA

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

1 of 12
TRK# 3954 6846 9087
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MASTER



PT-WI-SR-001 effective 11/8/18
CF O.L. Initials M
Thermometer ID 18
Uncorrected temp 2.7 °C

Part # 15829120101102801231

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH PA 15238
REF: (850) 336-0192

SHIP DATE: 07MAR23
ACTWGT: 21.30 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN
PITTSBURGH, PA 15238
UNITED STATES US
ORIGIN ID: B1XA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

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PA-US
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XN AGCA

0201

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

MPS# 0263
3 of 12
Mstr# 3954 6846 9102
3954 6846 9102



231023011107

PT-WI-SR-001 effective 11/8/18
Initials *Mo*

CFD.T

18

Thermometer ID



Uncorrected temp

DEPT: REF: (860) 396-0192
PITTSBURGH PA 15238

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH PA 15238

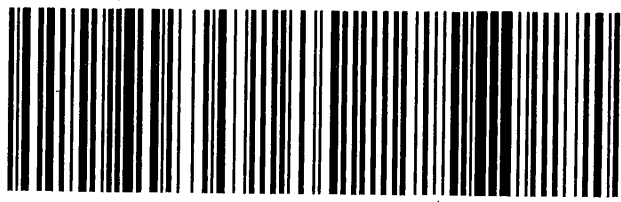
SHIP DATE: 02MAR23
ACTWGT: 62.15 LB
CAD: 693800/SFED401
DIMS: 23x14x13 IN
BILL THIRD PARTY

ORIGIN ID: B1X4 (850) 396-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

1592912318323845XP 12/23

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15238 PA-US PIT

XN AGCA

MPS# 3954 6846 9113
MPS# 3954 6846 9087

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT



Uncorrected temp _____
 Thermometer ID 18
 Initials CF C.T.
 PT-WI-SR-001 effective 11/8/18

PITTSBURGH PA 15238
REF: (850) 396-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

SHIP DATE: 07MAR23
 ACTWGT: 78.15 LB
 CAD: 6993800/SSFE2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY
 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US

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Part # 15629fca3929af9299EXP 12/23

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Recipient's Name <i>Please print.</i>	Phone Number
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Dept./Floor/Suite/Room	

ORIGIN ID: BIXA (850) 336-0192
 TESTAMERICA PITTSBURGH LAB
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US

SHIP DATE: 07MAR23
 ACTWTG: 75.40 LB
 CAD: 6993800/SSFE2401
 DIMS: 23x14x13 IN
 BILL THIRD PARTY

Part # 1502974325-9402938EXP 12/23

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH PA 15238

(850) 336-0192 REF: DEPT:

Uncorrected temp 3.0 °C
 Thermometer ID 18
 CF 0.1 Initials MM
 PT-WI-SR-001 effective 11/8/18



7 of 12
 MPS# 3954 6846 9146
 Mstr# 3954 6846 9087
XN AGCA
 WED - 08 MAR 10:30A
 PRIORITY OVERNIGHT
 15238
 PA-US PIT



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ORIGIN ID: BIXA (850) 336-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23

ACTING: 58.00 LB

CAD: 6993600/SSFE2401

DIMS: 23x14x13 IN

BILL THIRD PARTY

Part # 15629749364402829EXP 1/2/23

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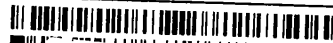
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192

REF:

DEPT:



Uncorrected temp
Thermometer ID

2.2 °C
18

CF 0.1 Initials *MS*

PT-WI-SR-001 effective 11/8/18

FedEx
Express



AN101110E201237

10 of 12

MPS# 3954 6846 9179

Mstr# 3954 6846 9087

0201

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



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Phone Number

ORIGIN ID:BIKA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 69.00 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

Part # 156297288028920202159P 12/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192

REF:

DEPT:



Uncorrected temp
Thermometer ID

2.7 °C

CF O.J. Initials Mo.

PT-WI-SR-001 effective 11/8/18



FedEx Express



156297288028920202159P

5 of 12

MPS# 0263

3954 6846 9124

Mstr# 3954 6846 9087

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WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

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PA-US PIT



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ORIGIN ID: BIXA (850) 336-0192

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 68.00 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN

BILL THIRD PARTY

Part # 15239123826984053 EXP 12/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192

REF:

INV:

DEPT:



Uncorrected temp
Thermometer ID

25 °C
18

FedEx
Express

CF Oil Initials mo

PT-WI-SR-001 effective 11/8/18



AN1011103201E27

9 of 12

MPS# 0263 3954 6846 9168

Metr# 3954 6846 9087

0201

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US PIT



Courier or Driver: Place Astra or Barcoded Label Here

Recipient's Name *Please print.*

Phone Number

ORIGIN ID: BIXA (850) 336-0192

SHIP DATE: 07MAR23

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

ACTWT: 67.60 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN

PITTSBURGH, PA 15238
UNITED STATES US

BILL THIRD PARTY

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192

REF:

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DEPT:



Uncorrected temp _____
Thermometer ID _____

12.6 °C
18

CF 0.1

Initials Mo

PT-WI-SR-001 effective 11/8/18

FedEx
Express



Part # 1562924290249902524EXP-12/23

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MPS# 3954 6846 9135

Mstr# 3954 6846 9087

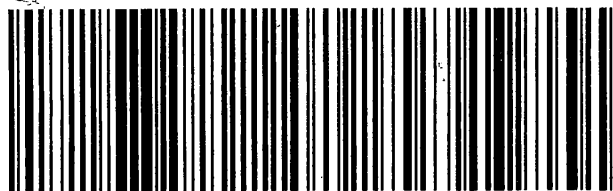
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PRIORITY OVERNIGHT

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XN AGCA

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PA-US **PIT**



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Do Not Lift Using This Tag

ORIGIN ID:BIXA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWT: 76.60 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

Part # 15629124982899028285XP 12/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192 REF: UNIT PG: DEPT:



Uncorrected temp 2.5 °C
Thermometer ID 18

CF 0.1 Initials Mo

PT-WI-SR-001 effective 11/8/18

FedEx
Express



AR101L100201227

8 of 12

MPS# 0263 3954 6846 9157

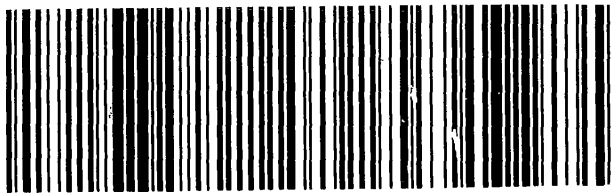
Mstr# 3954 6846 9087

0201

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



or barcoded Label Here

Do Not Lift Using This Tag

Recipient's Name *Please print.*

Phone Number

ORIGIN ID: BIXA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 71.85 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

Part # 156291743254402838EXP 12/23

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

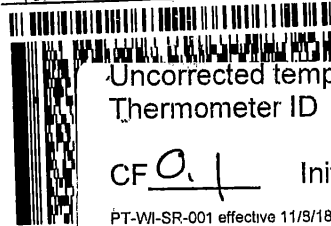
(850) 336-0192

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Uncorrected temp _____
Thermometer ID _____

25 C

CF O. J. Initials Mo

PT-WI-SR-001 effective 11/9/18

FedEx
Express



AM 1011108201227

11 of 12

MPS# 3954 6846 9180

Mstr# 3954 6846 9087

0201

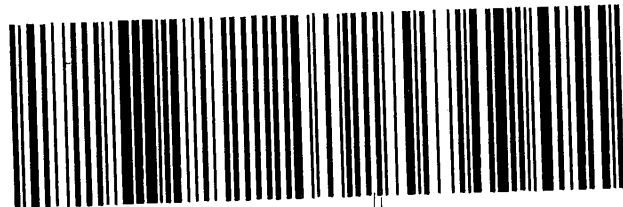
WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US

PIT



ORIGIN ID:BIKA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 66.65 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

Part # 1562974286PWRV052 EQP 12/23

TO

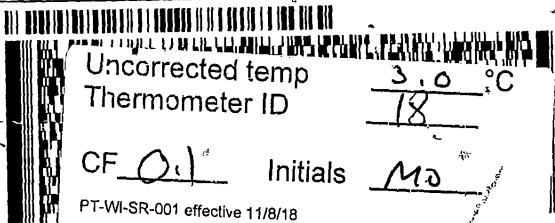
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192
INU:
PO:

REF:

DEPT:



Uncorrected temp
Thermometer ID

3.0 °C
18

CF Oil Initials MD

PT-WI-SR-001 effective 11/8/18

FedEx
Express



AN1011100201127

2 of 12

MPS# 3954 6846 9098

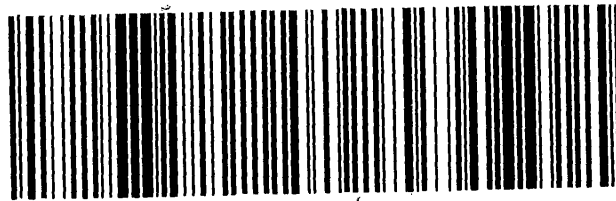
Mstr# 3954 6846 9087

0263

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



Courier or Driver: Place Astra or Barcoded Label Here

Do Not Lift Using This Tag

Shipper's Name <i>Diasea nrint</i>		Phone Number
ORIGIN ID: BIXA (850) 336-0192	TESTAMERICA PITTSBURGH LAB 301 ALPHA DR PITTSBURGH, PA 15238 UNITED STATES US	SHIP DATE: 07MAR23 ACTWGT: 71.30 LB CAD: 6993800/SSFE2401 DIMS: 23x14x13 IN BILL THIRD PARTY

Part # 1562914392-RR052-EXP-12/23

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238
(850) 336-0192 REF:

UNCORRECTED TEMP	2.7 °C
Thermometer ID	18
CF <u>Oil</u>	Initials <u>Mo</u>
PT-WI-SR-001 effective 11/8/18	

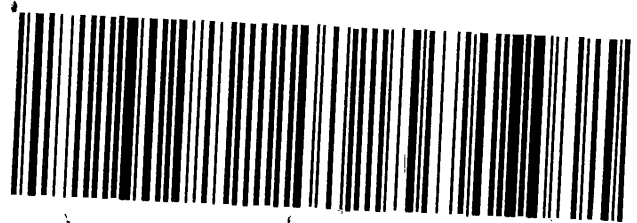


1 of 12
TRK# 0201 3954 6846 9087
MASTER

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US PIT



Courier or Driver: Place Astra or Barcoded Label Here

ORIGIN ID: BIXH (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWGT: 62.15 LB
CAD: 6993800/85FE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238
(850) 336-0192 REF: DEPT:

Uncorrected temp
Thermometer ID
31.7 °C

CF Q.I. Initials MO
PT-WI-SR-001 effective 11/8/18



3 of 12
MPS# 0263 3954 6846 9102
Mstr# 3954 6846 9087

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

XN AGCA 0201

15238
PA-US PIT



Do Not Lift Using This Tag

ORIGIN ID: BIXA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 07MAR23
ACTWTG: 78.15 LB
CAD: 6993800/SSFE2401
DIMS: 23x14x13 IN
BILL THIRD PARTY

TO
TESTAMERICA PITTSBURGH LAB
301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192 REF: DEPT:

Uncorrected temp 2.3 °C
Thermometer ID 18
CF Oel Initials MO
PT-WI-SR-001 effective 11/8/18



Part # 15629F45E49R0899EXP 12/23
1
2
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4 of 12

WED - 08 MAR 10:30A
PRIORITY OVERNIGHT

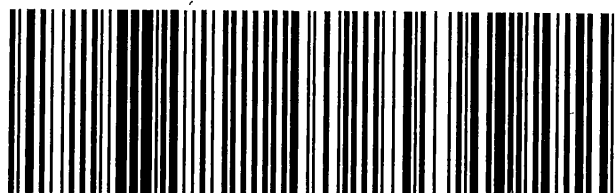
MPS# 0263 3954 6846 9113

Metr# 3954 6846 9087

0201

XN AGCA

15238
PA-US PIT



Courier or Driver: Place Astra or Barcoded Label Here



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s): 180-482165.1											
Client Contact Shipping/Receiving		E-Mail: Shali.Brown@et.eurofins.com	Page: Page 1 of 6											
Company: TestAmerica Laboratories, Inc.		State of Origin: Georgia												
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email: Project #: 18020186 Plant Watson Surface Water Site: SSOW#		Accreditations Required (See note): 180-153194-2												
Due Date Requested: 4/10/2023 TAT Requested (days):		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 - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)												
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, On-site)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9320_Ra228/PreSep_0 Radium 228	9315_Ra226/PreSep_21 Radium 226	Ra226/Ra228 GFC/ Combined Radium 226 and Radium 228	9315_Ra226/Field_FLTRD Radium 226 (Field Filtered)	9320_Ra228/Field_FLTRD Radium 228 (Field Filtered)	RA226/228GFFC_D/Field_FLTRD Local Method	Total Number of Containers	Special Instructions/Note:
SW-1-1' (180-153194-1)	3/6/23	17:39 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-1-1' (180-153194-2)	3/6/23	17:56 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-1-7' (180-153194-3)	3/6/23	18:13 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-1-7' (180-153194-4)	3/6/23	18:25 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-2-1' (180-153194-5)	3/6/23	16:50 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-2-1' (180-153194-6)	3/6/23	17:03 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-2-7' (180-153194-7)	3/6/23	17:14 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-2-7' (180-153194-8)	3/6/23	17:23 Eastern	Water	Water	X	X	X	X	X	X	X	X	2	
SW-3-1' (180-153194-9)	3/6/23	09:12 Eastern	Water	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 subcontractor laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/res/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 <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
Unconfirmed		Special Instructions/QC Requirements:	
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2	
Empty Kit Relinquished by:		Time:	
Relinquished by: <i>Shali Brown</i>		Date: 3-13-23 18:00	
Relinquished by: <i>Shali Brown</i>		Company: <i>CHANE</i>	
Relinquished by: <i>Shali Brown</i>		Company: <i>CHANE</i>	
Relinquished by: <i>Shali Brown</i>		Company: <i>CHANE</i>	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:	
Cooler Temperature(s) °C and Other Remarks:		Received by: <i>Suzanne Washington</i>	
		Date/Time: <i>MAR 14 2023 09:15</i>	
		Company: <i>CHANE</i>	



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No: 180-482165.2	
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@et.eurofins.com		State of Origin: Georgia		Page: Page 2 of 6	
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #:		180-153194-2	
Address: 13715 Rider Trail North,		Due Date Requested: 4/10/2023		Analysis Requested		Preservation Codes:	
City: Earth City		TAT Requested (days):		Field Filtered Sample (Yes or No)		M - Hexane	
State, Zip: MO, 63045		PO #:		Perform MS/MSD (Yes or No)		N - None	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:		9320_Ra228/PreSep_0 Radium 228		O - AsNaO2	
Email:		Project #: 18020186		9315_Ra226/PreSep_21 Radium 226		P - Na2O4S	
Plant Name: Plant Watson Surface Water		SSOW#:		Radium-228		Q - Na2SO3	
Site:		Sample Date		9315_Ra226/Field_FLTRD Radium 226 (Field)		R - Na2SO3	
Sample Identification - Client ID (Lab ID)		Sample Time		9320_Ra228/Field_FLTRD Radium 228 (Field)		S - H2SO4	
SW-3-1' (180-153194-10)		09:25 Eastern		RA226/Field_FLTRD (MOD) Local		T - TSP Dodecahydrate	
SW-3-4' (180-153194-11)		09:39 Eastern		9320_Ra228/Field_FLTRD Radium 228 (Field)		U - Acetone	
SW-3-4' (180-153194-12)		09:50 Eastern		9315_Ra226/Field_FLTRD Radium 226 (Field)		V - MCAA	
SW-4-1.5 (180-153194-13)		11:37 Eastern		Radium-228		W - pH 4-5	
SW-4-1.5 (180-153194-14)		11:45 Eastern		9320_Ra228/Field_FLTRD Radium 228 (Field)		Y - Trizma	
SW-5-1' (180-153194-15)		08:03 Eastern		9315_Ra226/Field_FLTRD Radium 226 (Field)		Z - other (specify)	
SW-5-1' (180-153194-16)		08:19 Eastern		Radium-228		Other:	
SW-5-13' (180-153194-17)		08:35 Eastern		9320_Ra228/Field_FLTRD Radium 228 (Field)			
SW-5-13' (180-153194-18)		08:53 Eastern		9315_Ra226/Field_FLTRD Radium 226 (Field)			
<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)							
Primary Deliverable Rank: 2							
Date: _____ Time: _____ Method of Shipment: _____							
<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:							
Relinquished by: <i>[Signature]</i> Date: 3-13-23 18:00 Company: EXHANE							
Relinquished by: <i>[Signature]</i> Date: _____ Company: _____							
Relinquished by: <i>[Signature]</i> Date: _____ Company: _____							
Custody Seals Intact: _____ Custody Seal No.: _____							
Cooler Temperature(s) °C and Other Remarks:							



Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s): 180-482165.3										
Client Contact Shipping/Receiving		E-Mail: Shali.Brown@eurofins.com	Page: Page 3 of 6										
Company TestAmerica Laboratories, Inc.		State of Origin: Georgia	Job #: 180-153194-2										
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):											
Due Date Requested: 4/10/2023 TAT Requested (days):		Analysis Requested											
PO #: WO #: Project #: 18020186 SSOW#:													
Project Name: Plant Watson Surface Water Site:		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 Y - Trizma 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, BT=Tissue, A=Al)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9315_Ra226/PreSep_21 Radium 226	Ra226Ra228 GFC/ Combined Radium 226 and Radium-228	9315_Ra226/FIELD_FLTRD Radium 226 (Field)	9320_Ra226/FIELD_FLTRD Radium 228 (Field)	RA226_228GFC/D/FIELD_FLTRD Local Method	Total Number of Containers	Special Instructions/Note:
SW-6-1' (180-153194-19)	3/6/23	09:21 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-6-1' (180-153194-20)	3/6/23	09:38 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-6-9.5 (180-153194-21)	3/6/23	09:53 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-6-9.5 (180-153194-22)	3/6/23	10:10 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-9-1' (180-153194-23)	3/6/23	13:06 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-9-1' (180-153194-24)	3/6/23	13:22 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-9-4' (180-153194-25)	3/6/23	13:31 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-9-4' (180-153194-26)	3/6/23	13:45 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-10-2' (180-153194-27)	3/6/23	12:31 Eastern	Water	Water	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 our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.</p>													
Possible Hazard Identification													
Unconfirmed													
Deliverable Requested: I, II, III, IV, Other (specify)													
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:													
Time: Date: Method of Shipment:													
Relinquished by: <i>Paul Ohms</i> Date/Time: 3-13-23 18:00 Company: <i>ERTNE</i> Received by: <i>Jana Wedington</i> Date/Time: MAR 14 2023 09:15 Company: <i>ERTNE</i>													
Relinquished by: Date/Time: Company:													
Custody Seals Intact: Custody Seal No.:													
<input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks:													



Client Information (Sub Contract Lab)		Lab PM:	Carrier Tracking No(s):										
Client Contact: Shipping/Receiving		Brown, Shali	180-482165.4										
Company: TestAmerica Laboratories, Inc.		E-Mail: Shali.Brown@et.eurofins.com	Page: Page 4 of 6										
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): 180-153194-2											
Due Date Requested: 4/10/2023 TAT Requested (days):		Preservation Codes: M - Hexane N - None O - AshNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - Tizma 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)	Perform MS/MSD (Yes or No)	9315_Ra226/PreSep_0 Radium 226	Ra226Ra228 GFPC/Combined Radium 226 and Radium-228	9315_Ra226/FIELD_FLTRD Radium 226 (Field Filtered)	9320_Ra228/FIELD_FLTRD Radium 228 (Field Filtered)	RA226_Z228GFPC_D/FIELD_FLTRD Local Method	Total Number of Containers	Special Instructions/Note:
SW-10-2' (180-153194-28)	3/6/23	12:48 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-11-1' (180-153194-29)	3/6/23	12:08 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-11-1' (180-153194-30)	3/6/23	11:51 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-12-1' (180-153194-31)	3/6/23	10:42 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-12-1' (180-153194-32)	3/6/23	11:12 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-13-1' (180-153194-33)	3/6/23	12:21 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-13-1' (180-153194-34)	3/6/23	12:39 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-14-1.5 (180-153194-35)	3/6/23	13:14 Eastern	Water	Water	X	X	X	X	X	X	X	2	
SW-14-1.5 (180-153194-36)	3/6/23	13:29 Eastern	Water	Water	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 subcontractor laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

Possible Hazard Identification
 Unconfirmed
 Return To Client
 Disposal By Lab
 Archive For _____ Months
 Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Shali Brown* Date: 3-13-23 (8:00)
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No

Received by: _____ Date/Time: _____
 Received by: *Dana Weidinger* Date/Time: MAR 14 2023 09:15
 Received by: _____ Date/Time: _____
 Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Brown, Shaili	Carrier Tracking No(s): 180-482166.5
Client Contact: Shipping/Receiving		E-Mail: Shaili.Brown@eurofins.com	Page: Page 5 of 6
Company: TestAmerica Laboratories, Inc.		State of Origin: Georgia	Job #: 180-153194-2
Address: 13715 Rider Trail North, Earth City, MO, 63045		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 Y - Tizma Z - other (specify)	
Due Date Requested: 4/10/2023		Accreditations Required (See note):	
TAT Requested (days):		Analysis Requested	
PO #:	WO #:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)
Project #: 18020186	SSOW#:	920_Ra228/PreSep_0 Radium 228	915_Ra226/PreSep_21 Radium 226
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, T=tissue, A=air)
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Matrix
SW-15-1.5 (180-153194-37)	3/6/23	13:50 Eastern	Water
SW-15-1.5 (180-153194-38)	3/6/23	14:10 Eastern	Water
SW-16-1.5 (180-153194-39)	3/6/23	14:48 Eastern	Water
SW-16-1.5 (180-153194-40)	3/6/23	15:08 Eastern	Water
EB-01 (180-153194-41)	3/6/23	08:16 Eastern	Water
SW-17-1 (180-153194-42)	3/6/23	10:38 Eastern	Water
SW-17-1 (180-153194-43)	3/6/23	10:57 Eastern	Water
FB-01 (180-153194-44)	3/6/23	08:13 Eastern	Water
DUP-01 (180-153194-45)	3/6/23	11:21 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/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.			
Possible Hazard Identification			
Unconfirmed			
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2	
Empty Kit Relinquished by:			
Date/Time: 3-13-23 18:00		Date/Time:	
Relinquished by: <i>Paul O'Connell</i>		Company: <i>LANE</i>	
Relinquished by: FEDEX		Company: <i>LANE</i>	
Relinquished by:		Company:	
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)		Special Instructions/QC Requirements:	
Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months		Method of Shipment:	
Received by: FEDEX		Date/Time:	
Received by: <i>Jenna Worthington</i>		Date/Time: <i>MAR 14 2023 09:15</i>	
Received by:		Date/Time:	



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s): 180-482165.6	
Client Contact Shipping/Receiving		E-Mail: Shali.Brown@et.eurofins.com	Page: Page 6 of 6	
Company: TestAmerica Laboratories, Inc.		State of Origin: Georgia		Job #: 180-153194-2
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		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:		
Due Date Requested: 4/10/2023 TAT Requested (days):		Analysis Requested		
PO #:	WO #:	Project #: 18020186	Total Number of Containers	
SSOW#:	Site: Plant Watson Surface Water	Special Instructions/Note:		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (H=Water, S=solid, O=water/soil, BT=tissue, A=air)
DUP-01 (180-153194-46)	3/6/23	11:39 Eastern	Water	Water
DUP-02 (180-153194-47)	3/6/23	16:39 Eastern	Water	Water
DUP-02 (180-153194-48)	3/6/23	16:56 Eastern	Water	Water
DUP-03 (180-153194-49)	3/6/23	09:42 Eastern	Water	Water
DUP-03 (180-153194-50)	3/6/23	10:12 Eastern	Water	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/lests/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 <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months				
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2				
Empty Kit Relinquished by:				
Relinquished by: <i>Phil Collins</i>		Date/Time: 3.13.23 1800		
Relinquished by: <i>Phil Collins</i>		Date/Time: 3.13.23 1800		
Relinquished by: <i>Phil Collins</i>		Date/Time: 3.13.23 1800		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks		

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-153194-2

Login Number: 153194

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-153194-2

Login Number: 153194

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 03/14/23 11:20 AM

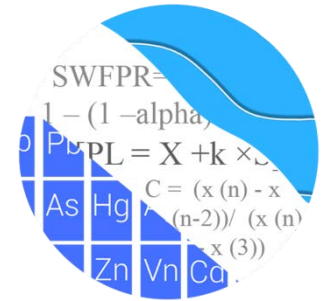
Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
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	



Appendix B

1st
Semi-Annual
Monitoring Event

GROUNDWATER STATS CONSULTING



December 13, 2022

Southern Company Services
Attn: Mr. Trey Singleton
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Watson Ash Pond
Statistical Analysis – October 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 October 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.

Delineation wells will be analyzed using confidence intervals for Appendix IV constituents when a minimum of 8 samples are available and, currently, all delineation wells have limited sample sizes. Data from all the delineation wells are plotted on the time series graphs and box plots.

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 – October 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 additional 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 (Figure D). The October 2022 observation at each downgradient well was compared to its respective background limit during this analysis. Note that due to varying detection limits from dilution for fluoride, the most recent reporting limit of 0.2 mg/L was used for all wells.

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.

Summary tables of the prediction limit findings follow this letter. When the October 2022 samples from downgradient wells were evaluated using interwell prediction limits, exceedances were identified for the following well/constituent pairs:

- Boron: APMW-1R, APMW-2, APMW-3, APMW-4, APMW-5, APMW-6R, APMW-8, APMW-9, and APMW-10
- Calcium: APMW-1R, APMW-2, APMW-3, APMW-4, APMW-5, APMW-6R, APMW-8, and APMW-9
- Chloride: APMW-3 and APMW-5
- Fluoride: APMW-8 and APMW-10
- pH: APMW-10
- Sulfate: APMW-3
- TDS: APMW-3 and APMW-5

Trend Tests

The Sen's Slope/Mann Kendall trend test was performed at the 99% confidence level on wells/constituent pairs 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:

- Calcium: APMW-1R
- pH: APMW-10

Decreasing:

- Boron: APMW-2 and APMW-4
- Calcium: APMW-11 (upgradient) and APMW-4
- Chloride: APMW-3
- pH: APMW-11 (upgradient)

Evaluation of Appendix IV Parameters – October 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. As mentioned above, due to historic varying detection limits from dilution for fluoride, the most recent reporting limit of 0.2 mg/L was used for all wells.

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. Exceedances were identified for the following well/constituent pairs:

- Arsenic: APMW-3, APMW-4, APMW-5, APMW-6R, APMW-8, and APMW-10
- Barium: APMW-2
- Combined Radium 226 + 228: APMW-1R, APMW-2, APMW-3, APMW-7, APMW-9
- Lithium: APMW-3, APMW-4, APMW-5, APMW-6R, and APMW-8
- Molybdenum: APMW-6R

A summary of the significant results follows this letter. Note that Southern Company Services, reportedly, submitted an Alternate Source Demonstration (ASD) for 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 6/2/2023 12:17 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Antimony (mg/L)

APMW-10, APMW-1R, 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

Appendix III Prediction Limit - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 11/29/2022, 2:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	APMW-10	1.2	n/a	10/18/2022	2.4	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	10/17/2022	1.3	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	10/17/2022	3.1	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	10/18/2022	5.6	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-4	1.2	n/a	10/19/2022	1.3	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	10/19/2022	6.5	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	10/19/2022	11	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	10/18/2022	23	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	10/18/2022	7.1	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	10/17/2022	200	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	10/17/2022	360	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	10/18/2022	310	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-4	130	n/a	10/19/2022	140	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	10/19/2022	340	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	10/19/2022	400	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	10/18/2022	520	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	10/18/2022	330	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	10/18/2022	8500	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	10/19/2022	8200	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-10	0.54	n/a	10/18/2022	0.68	Yes	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-8	0.54	n/a	10/18/2022	0.73	Yes	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.783	5.822	10/18/2022	6.98	Yes	55	0	None	No	0.0003761	Param Inter 1 of 2
Sulfate (mg/L)	APMW-3	840	n/a	10/18/2022	850	Yes	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	10/18/2022	14000	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	10/19/2022	13000	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2

Appendix III Prediction Limit - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 11/29/2022, 2:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	APMW-10	1.2	n/a	10/18/2022	2.4	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	10/17/2022	1.3	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	10/17/2022	3.1	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	10/18/2022	5.6	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-4	1.2	n/a	10/19/2022	1.3	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	10/19/2022	6.5	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	10/19/2022	11	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-7	1.2	n/a	10/18/2022	1.2	No	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	10/18/2022	23	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	10/18/2022	7.1	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-10	130	n/a	10/18/2022	46	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	10/17/2022	200	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	10/17/2022	360	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	10/18/2022	310	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-4	130	n/a	10/19/2022	140	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	10/19/2022	340	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	10/19/2022	400	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-7	130	n/a	10/18/2022	100	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	10/18/2022	520	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	10/18/2022	330	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-10	5400	n/a	10/18/2022	680	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-1R	5400	n/a	10/17/2022	2400	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-2	5400	n/a	10/17/2022	2500	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	10/18/2022	8500	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-4	5400	n/a	10/19/2022	2500	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	10/19/2022	8200	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-6R	5400	n/a	10/19/2022	4000	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-7	5400	n/a	10/18/2022	4000	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-8	5400	n/a	10/18/2022	3300	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-9	5400	n/a	10/18/2022	2900	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-10	0.54	n/a	10/18/2022	0.68	Yes	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-1R	0.54	n/a	10/17/2022	0.2ND	No	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-2	0.54	n/a	10/17/2022	0.2ND	No	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-3	0.54	n/a	10/18/2022	0.32J	No	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-4	0.54	n/a	10/19/2022	0.29	No	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-5	0.54	n/a	10/19/2022	0.065J	No	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-6R	0.54	n/a	10/19/2022	0.22	No	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-7	0.54	n/a	10/18/2022	0.084J	No	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-8	0.54	n/a	10/18/2022	0.73	Yes	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-9	0.54	n/a	10/18/2022	0.2ND	No	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.783	5.822	10/18/2022	6.98	Yes	55	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-1R	6.783	5.822	10/17/2022	6.27	No	55	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-2	6.783	5.822	10/17/2022	5.87	No	55	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-3	6.783	5.822	10/18/2022	6.61	No	55	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-4	6.783	5.822	10/19/2022	6.32	No	55	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-5	6.783	5.822	10/19/2022	6.38	No	55	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-6R	6.783	5.822	10/19/2022	6.1	No	55	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-7	6.783	5.822	10/18/2022	6.43	No	55	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-8	6.783	5.822	10/18/2022	6.67	No	55	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-9	6.783	5.822	10/18/2022	6.32	No	55	0	None	No	0.0003761	Param Inter 1 of 2
Sulfate (mg/L)	APMW-10	840	n/a	10/18/2022	1.25ND	No	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-1R	840	n/a	10/17/2022	1.2	No	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-2	840	n/a	10/17/2022	5.6	No	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-3	840	n/a	10/18/2022	850	Yes	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-4	840	n/a	10/19/2022	230	No	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-5	840	n/a	10/19/2022	810	No	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-6R	840	n/a	10/19/2022	800	No	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-7	840	n/a	10/18/2022	25	No	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-8	840	n/a	10/18/2022	560	No	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-9	840	n/a	10/18/2022	280	No	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-10	9200	n/a	10/18/2022	1900	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-1R	9200	n/a	10/17/2022	4900	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-2	9200	n/a	10/17/2022	6600	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	10/18/2022	14000	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-4	9200	n/a	10/19/2022	5900	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	10/19/2022	13000	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-6R	9200	n/a	10/19/2022	7000	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-7	9200	n/a	10/18/2022	7900	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2

Appendix III Prediction Limit - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 11/29/2022, 2:52 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Total Dissolved Solids (mg/L)	APMW-8	9200	n/a	10/18/2022	7000	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-9	9200	n/a	10/18/2022	5900	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2

Trend Tests - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 11/29/2022, 2:58 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-2	-0.191	-60	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-4	-0.1859	-96	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-11 (bg)	-1.557	-56	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	24.83	64	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-4	-15.61	-94	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-3	-436.4	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	APMW-10	0.08323	69	63	Yes	17	0	n/a	n/a	0.01	NP
pH (SU)	APMW-11 (bg)	-0.1899	-92	-58	Yes	16	0	n/a	n/a	0.01	NP

Trend Tests - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 11/29/2022, 2:58 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	APMW-10	0.05665	40	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-11 (bg)	0.00522	34	53	No	15	46.67	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-12 (bg)	0.01308	51	53	No	15	26.67	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-13 (bg)	0.01752	3	14	No	6	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-14 (bg)	-0.004672	-2	-14	No	6	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-15 (bg)	0.01848	3	14	No	6	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-16 (bg)	-0.0237	-3	-14	No	6	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-1R	0.7757	43	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-2	-0.191	-60	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-3	0.09801	28	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-4	-0.1859	-96	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-5	-0.1236	-28	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-6R	0.4047	42	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-8	0	-12	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-9	0	-4	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-11 (bg)	-1.557	-56	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-12 (bg)	-0.548	-51	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-13 (bg)	-0.5603	-1	-14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-14 (bg)	-7.033	-9	-14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-15 (bg)	-8.639	-11	-14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-16 (bg)	-16.78	-5	-14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	24.83	64	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-2	6.364	21	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-3	0	2	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-4	-15.61	-94	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-5	-2.614	-18	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-6R	0	-3	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-8	-5.991	-23	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-9	0	-10	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-11 (bg)	-0.1313	-14	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-12 (bg)	0	-11	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-13 (bg)	-123.7	-6	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-14 (bg)	-61.86	-6	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-15 (bg)	-123.7	-5	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-16 (bg)	0	0	14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-3	-436.4	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-5	-79.01	-24	-58	No	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-10	-0.0207	-18	-63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-11 (bg)	0	15	58	No	16	43.75	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-12 (bg)	0.003185	3	58	No	16	12.5	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-13 (bg)	-0.02493	-1	-14	No	6	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-14 (bg)	0	5	14	No	6	66.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-15 (bg)	-0.1478	-6	-14	No	6	16.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-16 (bg)	-0.04321	-1	-14	No	6	16.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-8	-0.03998	-30	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	APMW-10	0.08323	69	63	Yes	17	0	n/a	n/a	0.01	NP
pH (SU)	APMW-11 (bg)	-0.1899	-92	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	APMW-12 (bg)	-0.1023	-51	-53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	APMW-13 (bg)	0.03116	4	14	No	6	0	n/a	n/a	0.01	NP
pH (SU)	APMW-14 (bg)	-0.004451	-2	-14	No	6	0	n/a	n/a	0.01	NP
pH (SU)	APMW-15 (bg)	0.03116	8	14	No	6	0	n/a	n/a	0.01	NP
pH (SU)	APMW-16 (bg)	0.05781	7	14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-11 (bg)	-0.1218	-25	-53	No	15	20	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-12 (bg)	-0.2312	-34	-53	No	15	13.33	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-13 (bg)	4.116	3	12	No	5	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-14 (bg)	56.65	11	14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-15 (bg)	-8.883	-1	-14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-16 (bg)	1.978	1	14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-3	-37.02	-54	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-11 (bg)	-6.844	-33	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-12 (bg)	-4.092	-23	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-13 (bg)	-210.2	-7	-14	No	6	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-14 (bg)	-204.4	-5	-14	No	6	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-15 (bg)	-216	-5	-14	No	6	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-16 (bg)	47.4	3	14	No	6	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-3	0	-8	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-5	0	-13	-58	No	16	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 6/2/2023, 12:15 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a 56	n/a	n/a	98.21	n/a	n/a	0.05656	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.00496	n/a	n/a	n/a	n/a 56	n/a	n/a	39.29	n/a	n/a	0.05656	NP Inter(normality)
Barium (mg/L)	n/a	0.25	n/a	n/a	n/a	n/a 56	n/a	n/a	0	n/a	n/a	0.05656	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a 56	n/a	n/a	94.64	n/a	n/a	0.05656	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a 56	n/a	n/a	98.21	n/a	n/a	0.05656	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0044	n/a	n/a	n/a	n/a 52	n/a	n/a	88.46	n/a	n/a	0.06944	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a 56	n/a	n/a	89.29	n/a	n/a	0.05656	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	5.075	n/a	n/a	n/a	n/a 56	1.126	0.5543	3.571	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.54	n/a	n/a	n/a	n/a 56	n/a	n/a	26.79	n/a	n/a	0.05656	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 56	n/a	n/a	96.43	n/a	n/a	0.05656	NP Inter(NDs)
Lithium (mg/L)	n/a	0.0244	n/a	n/a	n/a	n/a 56	0.09745	0.02892	7.143	None	sqrt(x)	0.05	Inter
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a 52	n/a	n/a	96.15	n/a	n/a	0.06944	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	n/a 56	n/a	n/a	96.43	n/a	n/a	0.05656	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 56	n/a	n/a	100	n/a	n/a	0.05656	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 56	n/a	n/a	96.43	n/a	n/a	0.05656	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		5.08	5.08
Fluoride, Total (mg/L)	4		0.54	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.024	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 6/2/2023, 12:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	APMW-10	0.1132	0.07424	0.01	Yes	16	0.08956	0.03485	0	None	x^2	0.01	Param.
Arsenic (mg/L)	APMW-3	0.07939	0.05842	0.01	Yes	16	0.06891	0.01612	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01809	0.01567	0.01	Yes	16	0.01621	0.003276	0	None	x^5	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2363	0.2087	0.01	Yes	16	0.2225	0.02113	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.1831	0.1343	0.01	Yes	16	0.1587	0.03752	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-8	0.07751	0.04236	0.01	Yes	16	0.05994	0.02701	0	None	No	0.01	Param.
Barium (mg/L)	APMW-2	3.394	2.981	2	Yes	16	3.188	0.3181	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	10.75	6.836	5.08	Yes	16	8.794	3.01	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.05	17.72	5.08	Yes	16	18.89	1.792	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	6.94	5.322	5.08	Yes	16	6.131	1.243	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.479	5.576	5.08	Yes	16	6.528	1.463	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	8.92	6.67	5.08	Yes	16	7.419	0.9216	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-3	0.08484	0.06909	0.04	Yes	16	0.07697	0.01211	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-4	0.063	0.051	0.04	Yes	16	0.05656	0.009388	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-5	0.052	0.044	0.04	Yes	16	0.04831	0.009911	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.0581	0.05259	0.04	Yes	16	0.05534	0.004238	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-8	0.099	0.073	0.04	Yes	16	0.08916	0.02404	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-6R	0.4513	0.38	0.1	Yes	16	0.4156	0.05477	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 6/2/2023, 12:19 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	16	0.001963	0.00015	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	APMW-3	0.002	0.00059	0.006	No	16	0.001912	0.0003525	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	APMW-8	0.002	0.00066	0.006	No	16	0.001916	0.000335	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	APMW-10	0.1132	0.07424	0.01	Yes	16	0.08956	0.03485	0	None	x^2	0.01	Param.
Arsenic (mg/L)	APMW-1R	0.001877	0.0007917	0.01	No	16	0.001334	0.0008341	12.5	None	No	0.01	Param.
Arsenic (mg/L)	APMW-2	0.0012	0.00094	0.01	No	16	0.0009538	0.0001798	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	APMW-3	0.07939	0.05842	0.01	Yes	16	0.06891	0.01612	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01809	0.01567	0.01	Yes	16	0.01621	0.003276	0	None	x^5	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2363	0.2087	0.01	Yes	16	0.2225	0.02113	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.1831	0.1343	0.01	Yes	16	0.1587	0.03752	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-7	0.0021	0.00045	0.01	No	16	0.001201	0.0008877	0	None	No	0.01	NP (normality)
Arsenic (mg/L)	APMW-8	0.07751	0.04236	0.01	Yes	16	0.05994	0.02701	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-9	0.001417	0.001158	0.01	No	16	0.001288	0.0001996	0	None	No	0.01	Param.
Barium (mg/L)	APMW-10	0.3045	0.2394	2	No	16	0.2731	0.0516	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	APMW-1R	1.5	0.93	2	No	16	1.154	0.267	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-2	3.394	2.981	2	Yes	16	3.188	0.3181	0	None	No	0.01	Param.
Barium (mg/L)	APMW-3	0.11	0.097	2	No	16	0.1016	0.006386	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-4	0.5	0.22	2	No	16	0.3663	0.1338	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-5	0.11	0.093	2	No	16	0.1014	0.008016	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-6R	0.06383	0.05142	2	No	16	0.05763	0.009542	0	None	No	0.01	Param.
Barium (mg/L)	APMW-7	0.8575	0.6338	2	No	16	0.7456	0.1719	0	None	No	0.01	Param.
Barium (mg/L)	APMW-8	0.2265	0.2085	2	No	16	0.2175	0.0139	0	None	No	0.01	Param.
Barium (mg/L)	APMW-9	0.4758	0.433	2	No	16	0.4544	0.03286	0	None	No	0.01	Param.
Beryllium (mg/L)	APMW-10	0.0025	0.00076	0.004	No	16	0.002262	0.0006535	87.5	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-1R	0.0025	0.00019	0.004	No	16	0.002356	0.0005775	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-2	0.0025	0.00061	0.004	No	16	0.002095	0.0008749	81.25	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-3	0.0025	0.00018	0.004	No	16	0.002355	0.00058	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-6R	0.0025	0.00036	0.004	No	16	0.002366	0.000535	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-7	0.0025	0.00025	0.004	No	16	0.002359	0.0005625	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-8	0.0025	0.00038	0.004	No	16	0.002367	0.00053	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-9	0.0025	0.00049	0.004	No	16	0.002233	0.0007307	87.5	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-10	0.0025	0.00025	0.005	No	16	0.002359	0.0005625	93.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-1R	0.0025	0.00045	0.005	No	16	0.002372	0.0005125	93.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-6R	0.0025	0.00026	0.005	No	16	0.002212	0.0007859	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-1R	0.0032	0.002	0.1	No	14	0.002086	0.0003207	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-3	0.002	0.0014	0.1	No	14	0.001957	0.0001604	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-4	0.002225	0.001478	0.1	No	14	0.002021	0.0004458	35.71	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	APMW-5	0.0024	0.0014	0.1	No	14	0.001843	0.0003458	64.29	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-7	0.0022	0.0014	0.1	No	14	0.001771	0.0003197	50	None	No	0.01	NP (normality)
Chromium (mg/L)	APMW-8	0.0032	0.0014	0.1	No	14	0.002043	0.0003694	85.71	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-10	0.0025	0.00033	0.006	No	16	0.002064	0.0009376	81.25	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-1R	0.0025	0.00037	0.006	No	16	0.001436	0.001103	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	APMW-3	0.003145	0.00243	0.006	No	16	0.002788	0.00055	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-4	0.003773	0.003102	0.006	No	16	0.003438	0.0005149	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-5	0.0025	0.000079	0.006	No	16	0.002197	0.0008276	87.5	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-6R	0.003484	0.002078	0.006	No	16	0.002781	0.001081	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-7	0.0025	0.00024	0.006	No	16	0.001391	0.001147	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	APMW-9	0.0025	0.000089	0.006	No	16	0.002198	0.0008244	87.5	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	APMW-10	3.426	2.616	5.08	No	16	3.021	0.6223	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	10.75	6.836	5.08	Yes	16	8.794	3.01	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.05	17.72	5.08	Yes	16	18.89	1.792	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	6.94	5.322	5.08	Yes	16	6.131	1.243	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-4	2.576	1.845	5.08	No	16	2.211	0.5612	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-5	4.586	3.78	5.08	No	16	4.183	0.6195	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-6R	3.33	2.798	5.08	No	16	2.947	0.7788	0	None	x^3	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.479	5.576	5.08	Yes	16	6.528	1.463	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-8	4.294	3.363	5.08	No	16	3.829	0.7154	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	8.92	6.67	5.08	Yes	16	7.419	0.9216	0	None	No	0.01	NP (normality)

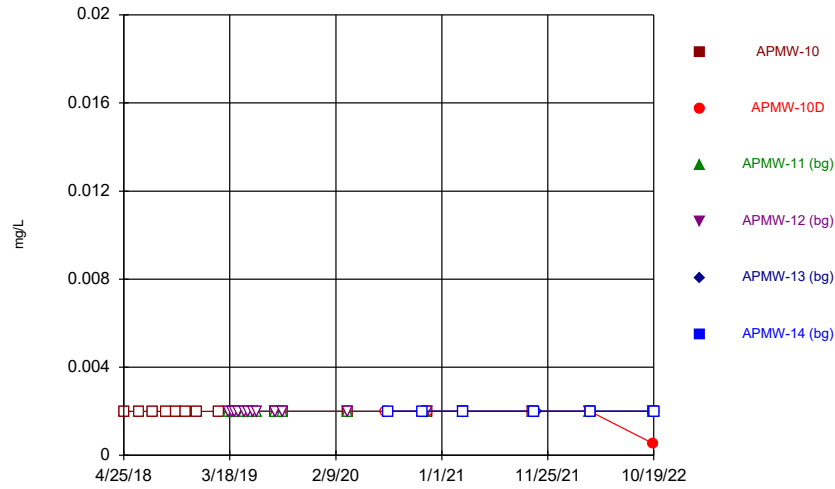
Confidence Intervals - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 6/2/2023, 12:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	APMW-10	0.7697	0.6126	4	No	17	0.6912	0.1254	0	None	No	0.01	Param.
Fluoride (mg/L)	APMW-1R	0.21	0.14	4	No	16	0.1906	0.0353	56.25	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-2	0.2	0.06	4	No	16	0.1369	0.0661	31.25	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-3	0.5142	0.2689	4	No	17	0.4153	0.2154	29.41	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	APMW-4	0.5308	0.4416	4	No	17	0.4388	0.1524	11.76	None	x^5	0.01	Param.
Fluoride (mg/L)	APMW-5	0.2	0.09	4	No	16	0.1441	0.05863	50	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-6R	0.29	0.2	4	No	16	0.6063	1.545	68.75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-7	0.26	0.11	4	No	17	0.3149	0.4218	17.65	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-8	1.1	0.74	4	No	17	1.799	3.664	0	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-9	0.2	0.06	4	No	16	0.1781	0.1837	37.5	None	No	0.01	NP (normality)
Lead (mg/L)	APMW-10	0.0011	0.0006	0.015	No	16	0.0008781	0.0002937	75	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-2	0.001	0.00022	0.015	No	16	0.0009513	0.000195	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-3	0.001	0.00048	0.015	No	16	0.0009319	0.0001864	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-4	0.001	0.00062	0.015	No	16	0.0009763	0.000095	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-5	0.0011	0.00041	0.015	No	16	0.0009294	0.0002141	81.25	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-6R	0.001	0.00032	0.015	No	16	0.0009575	0.00017	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-7	0.0019	0.001	0.015	No	16	0.001056	0.000225	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-8	0.0013	0.001	0.015	No	16	0.001056	0.0001632	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-9	0.001	0.00039	0.015	No	16	0.0009075	0.0002572	87.5	None	No	0.01	NP (NDs)
Lithium (mg/L)	APMW-10	0.0183	0.01043	0.04	No	16	0.01485	0.007243	0	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	APMW-1R	0.016	0.011	0.04	No	16	0.01413	0.004129	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-2	0.03	0.02375	0.04	No	16	0.02688	0.004801	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-3	0.08484	0.06909	0.04	Yes	16	0.07697	0.01211	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-4	0.063	0.051	0.04	Yes	16	0.05656	0.009388	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-5	0.052	0.044	0.04	Yes	16	0.04831	0.009911	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.0581	0.05259	0.04	Yes	16	0.05534	0.004238	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-7	0.004409	0.002624	0.04	No	15	0.003953	0.001365	20	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	APMW-8	0.099	0.073	0.04	Yes	16	0.08916	0.02404	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-9	0.00528	0.003209	0.04	No	15	0.004653	0.001606	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Mercury (mg/L)	APMW-10	0.0002	0.000085	0.002	No	14	0.0001918	0.00003074	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-1R	0.0002	0.00015	0.002	No	14	0.0001964	0.00001336	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-5	0.0002	0.000093	0.002	No	14	0.0001924	0.0000286	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-7	0.0002	0.00009	0.002	No	14	0.0001921	0.0000294	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-8	0.0002	0.000077	0.002	No	14	0.0001912	0.00003287	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-9	0.00035	0.0002	0.002	No	14	0.0002107	0.00004009	92.86	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-10	0.11	0.043	0.1	No	16	0.0815	0.02891	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-2	0.015	0.00079	0.1	No	16	0.01411	0.003552	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-3	0.07037	0.06044	0.1	No	16	0.06541	0.007636	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-4	0.009753	0.006684	0.1	No	16	0.008219	0.002358	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-5	0.09755	0.06345	0.1	No	16	0.0805	0.02621	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-6R	0.4513	0.38	0.1	Yes	16	0.4156	0.05477	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-7	0.015	0.0062	0.1	No	16	0.01131	0.005076	62.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-8	0.147	0.08586	0.1	No	16	0.1164	0.04699	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-9	0.015	0.00093	0.1	No	16	0.01324	0.004811	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-10	0.005	0.00061	0.05	No	16	0.004144	0.001842	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-2	0.005	0.00072	0.05	No	16	0.004169	0.001788	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-3	0.005	0.0011	0.05	No	16	0.003386	0.001908	56.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-4	0.005	0.00068	0.05	No	16	0.004162	0.001803	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-5	0.005	0.00071	0.05	No	16	0.004182	0.001759	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-7	0.005	0.00046	0.05	No	16	0.004138	0.001853	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-8	0.005	0.0006	0.05	No	16	0.004157	0.001813	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-9	0.005	0.00081	0.05	No	16	0.004156	0.001818	81.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-10	0.001	0.00068	0.002	No	16	0.0009006	0.0002371	81.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-1R	0.001	0.00019	0.002	No	16	0.0009494	0.0002025	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-2	0.001	0.00084	0.002	No	16	0.00099	0.00004	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-3	0.001	0.00012	0.002	No	16	0.000945	0.00022	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-8	0.0013	0.00025	0.002	No	16	0.00092	0.0002874	81.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-9	0.0016	0.00024	0.002	No	16	0.00099	0.0002498	87.5	None	No	0.01	NP (NDs)

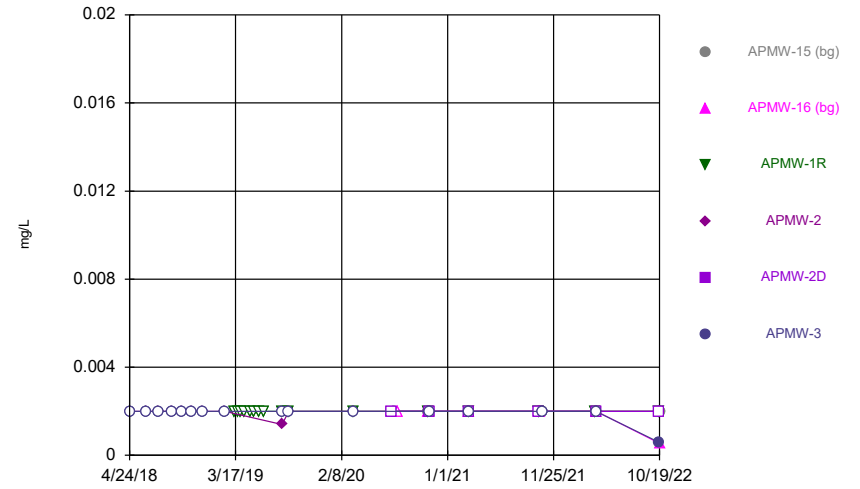
FIGURE A.

Time Series



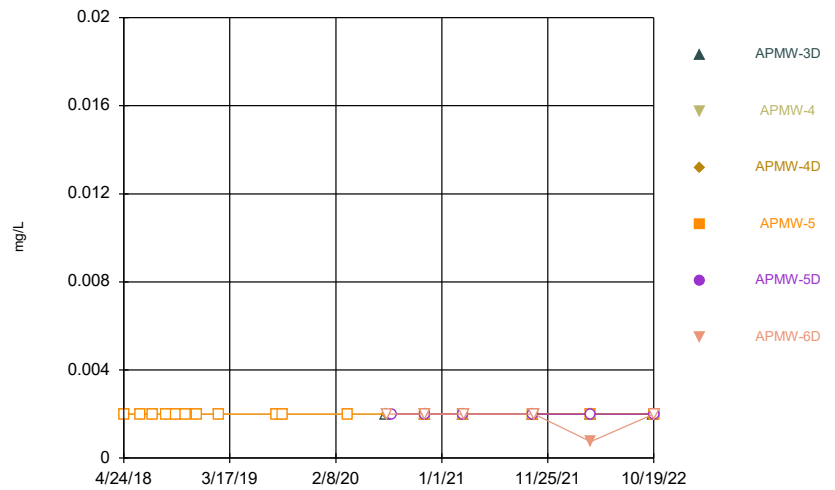
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



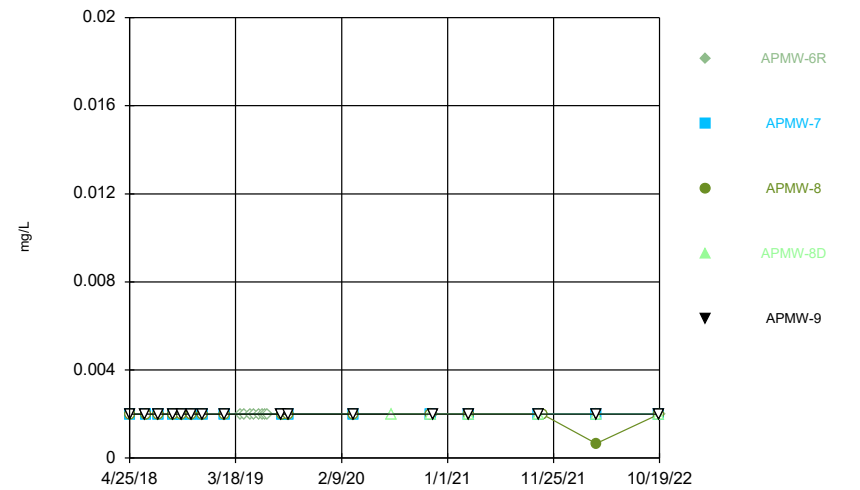
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



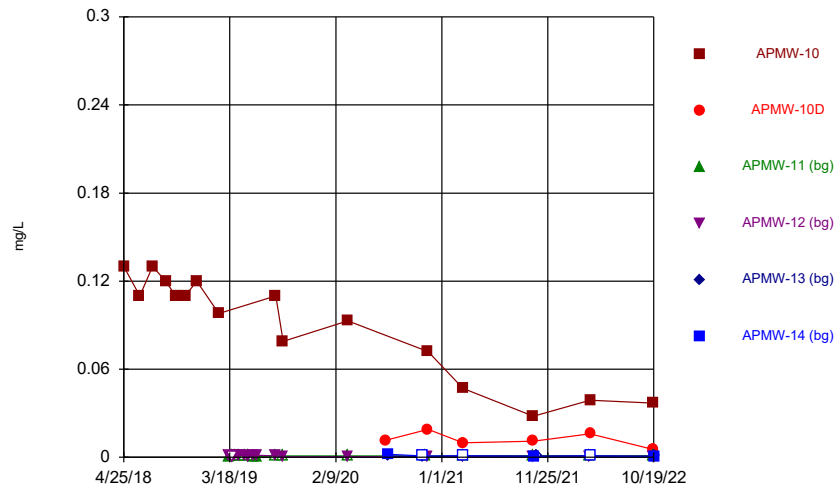
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



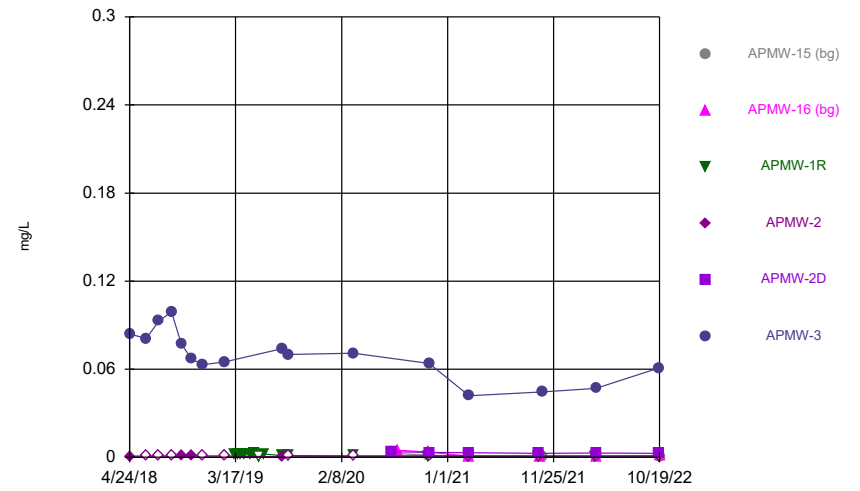
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



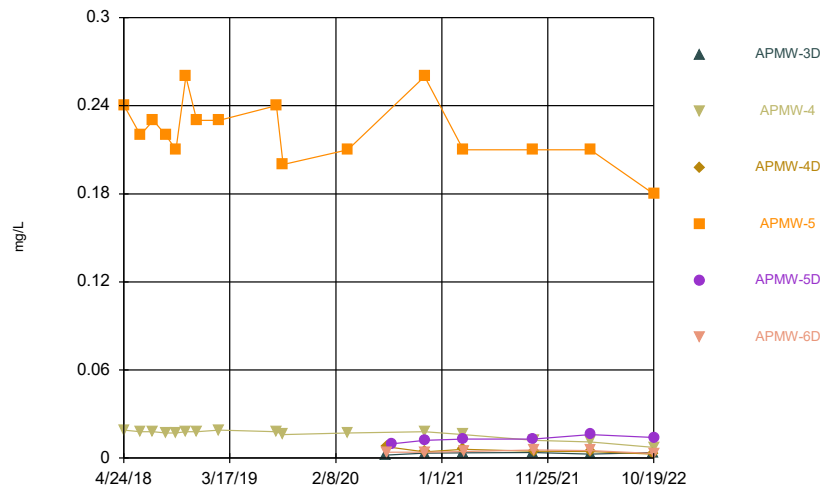
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



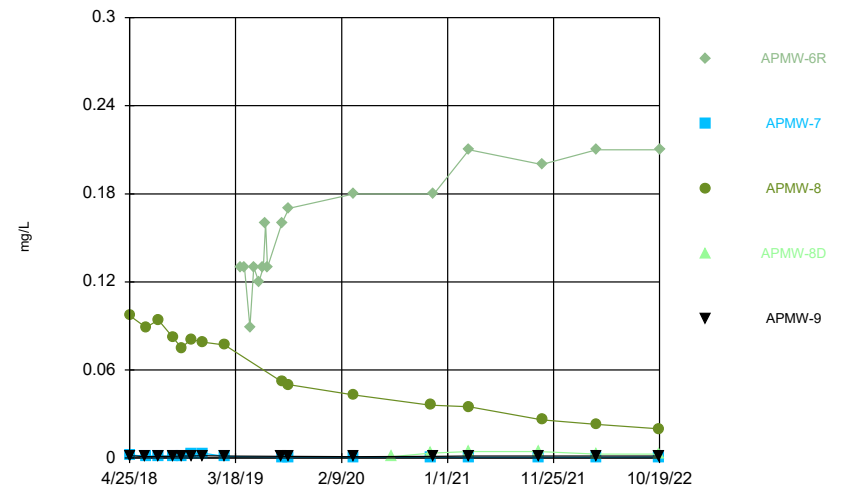
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



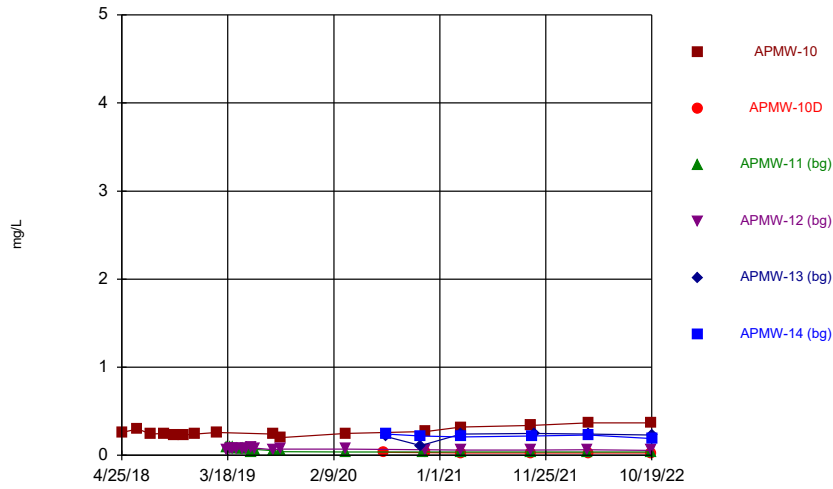
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Time Series



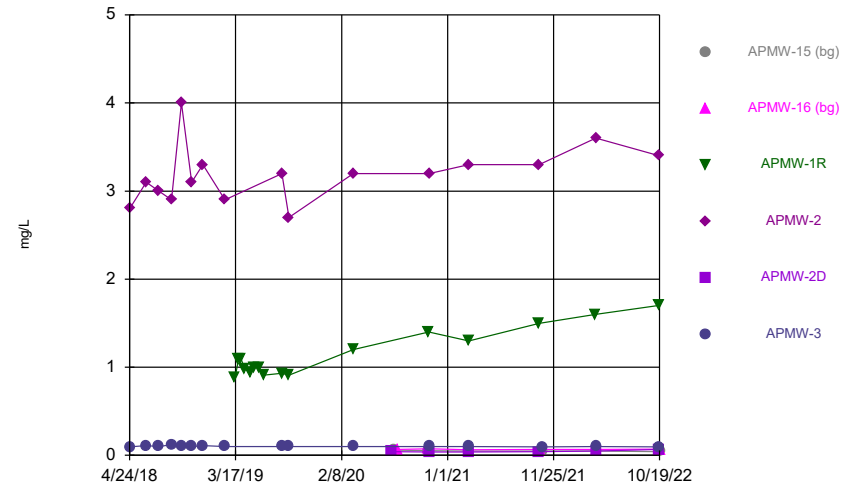
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



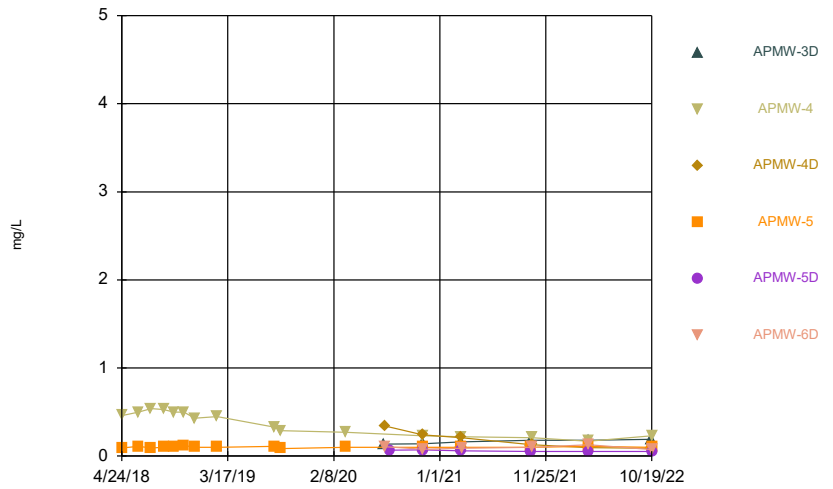
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



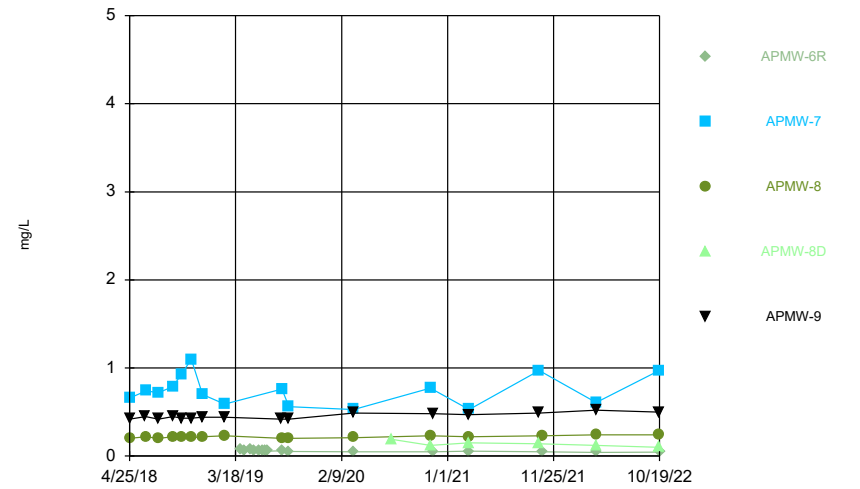
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Time Series



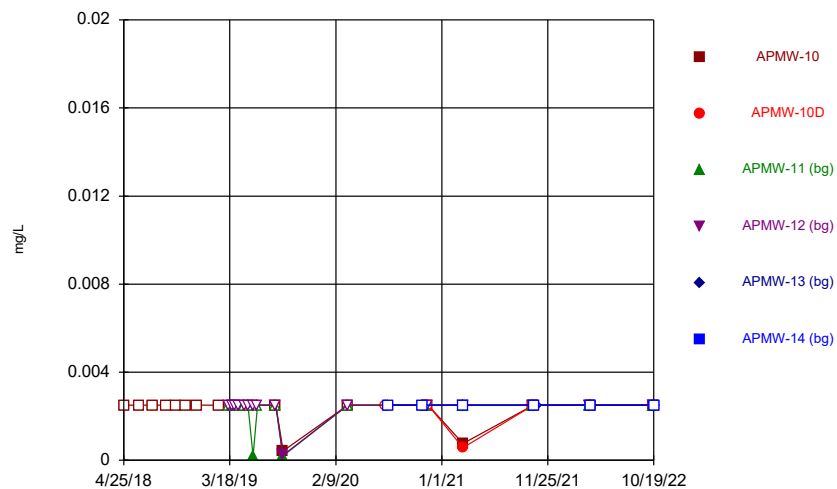
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



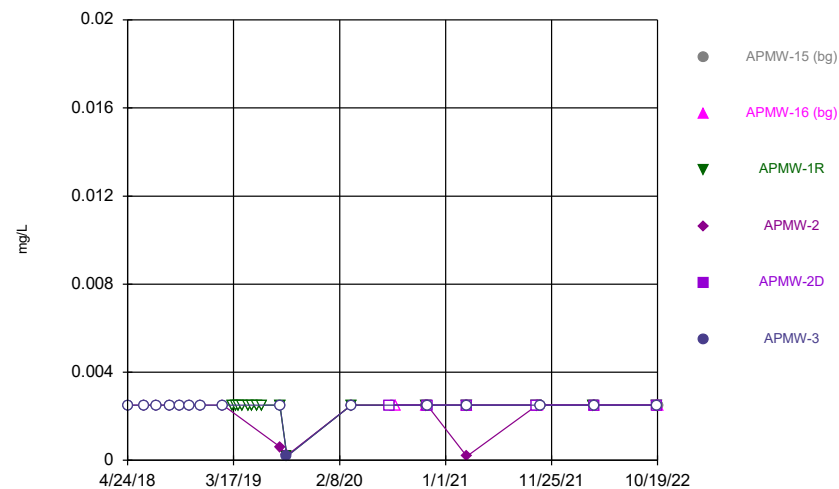
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



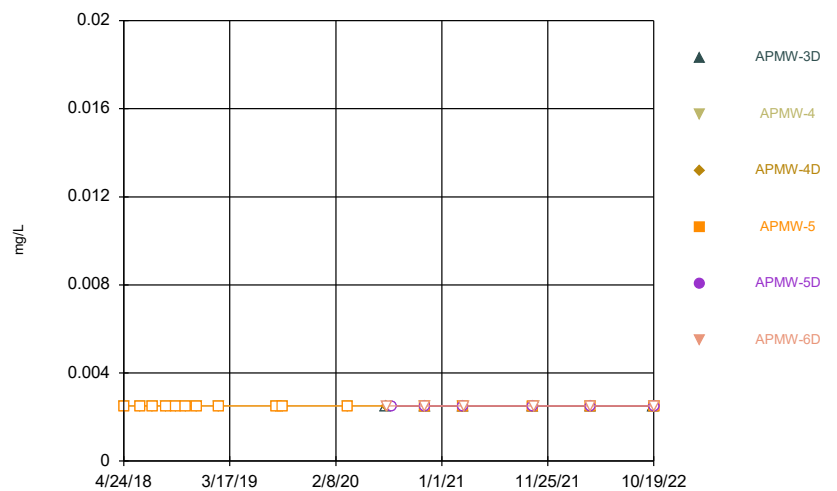
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



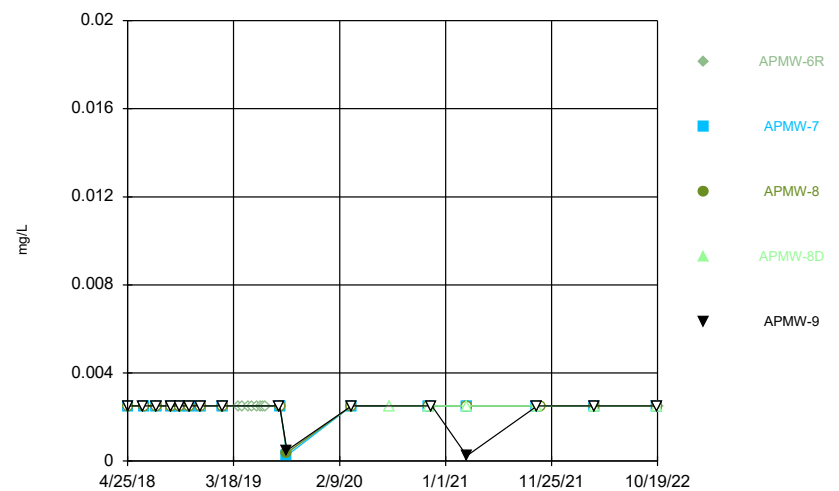
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



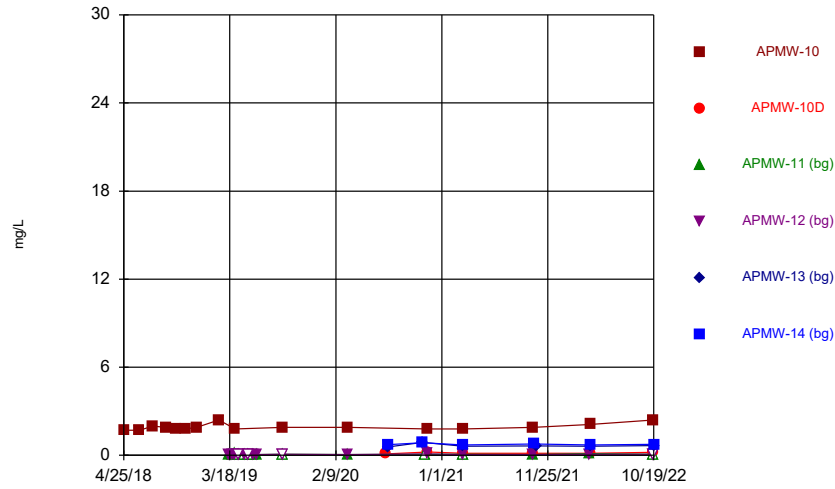
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



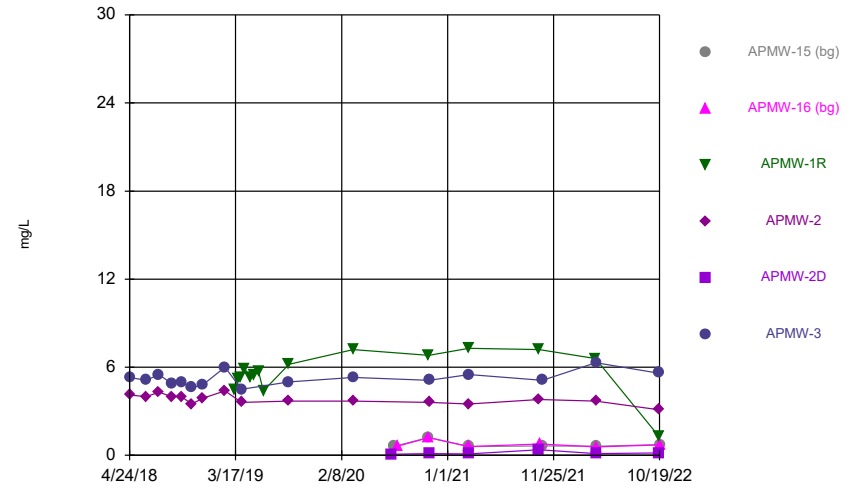
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



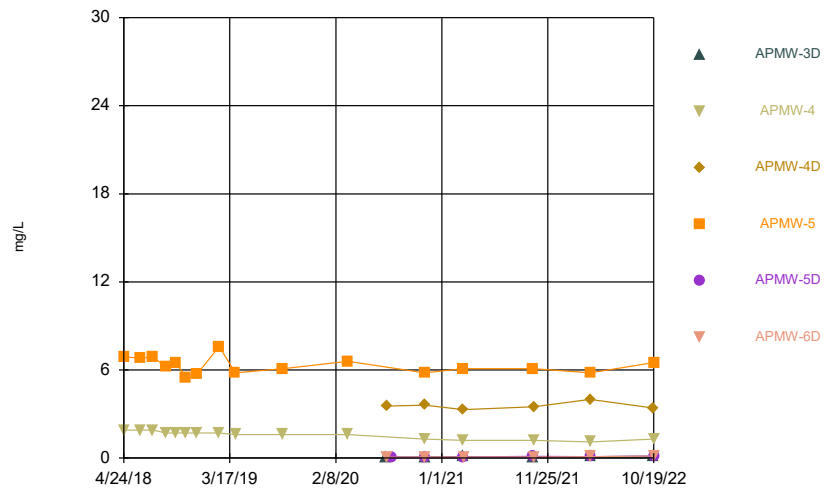
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



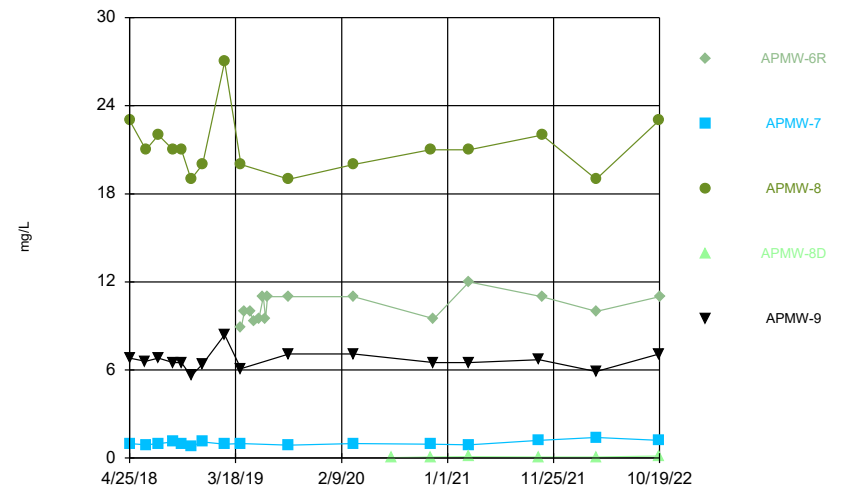
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



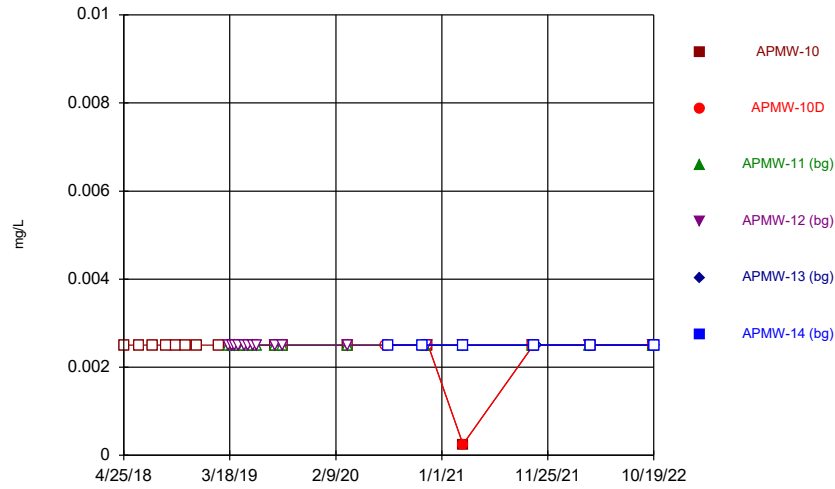
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



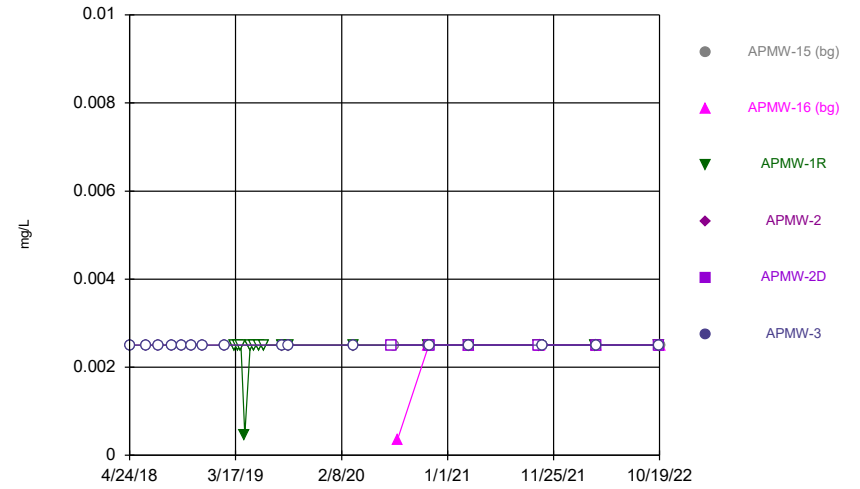
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



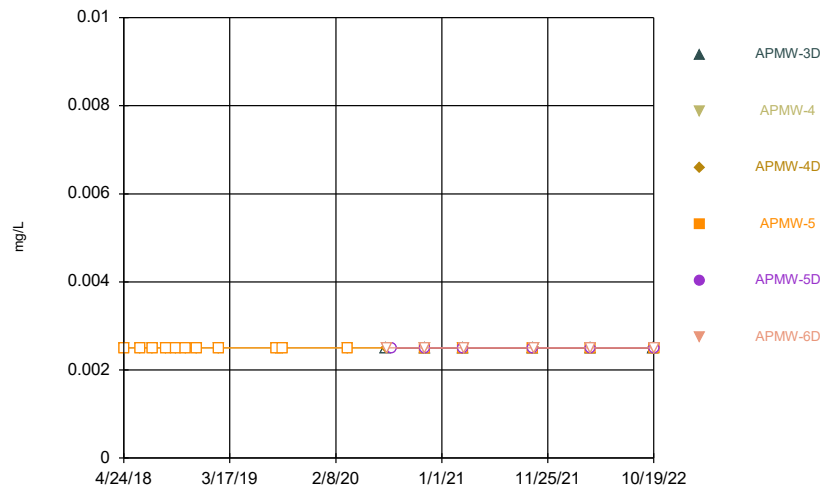
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



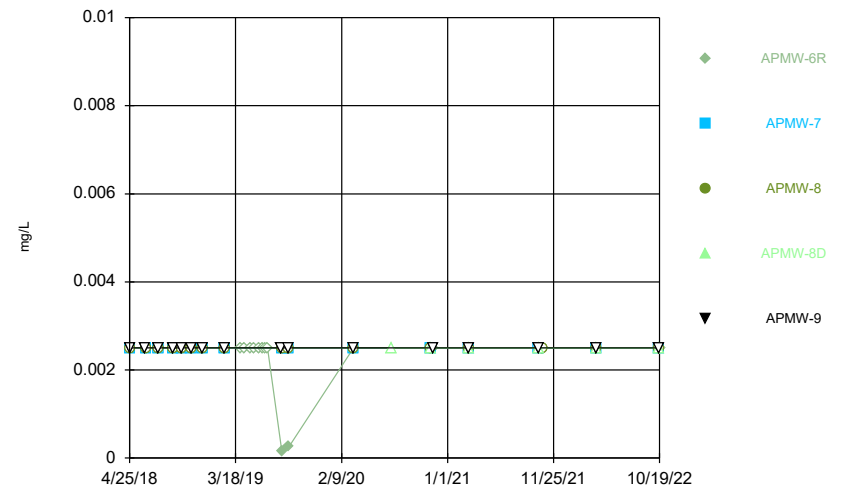
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



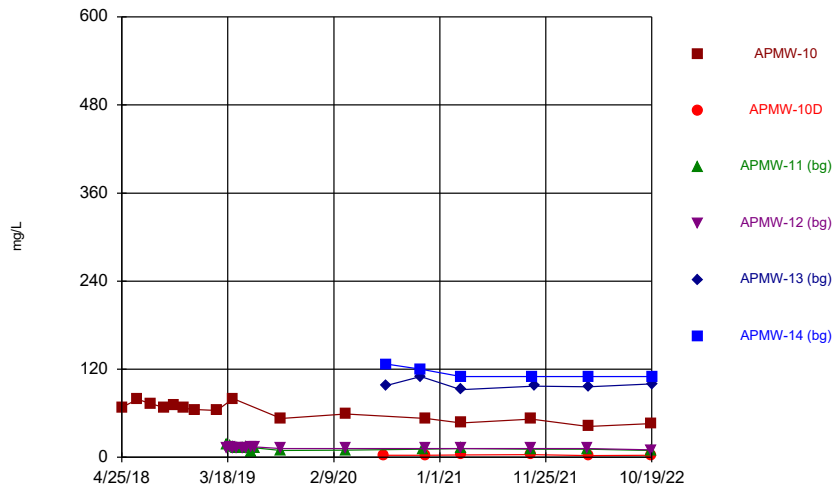
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



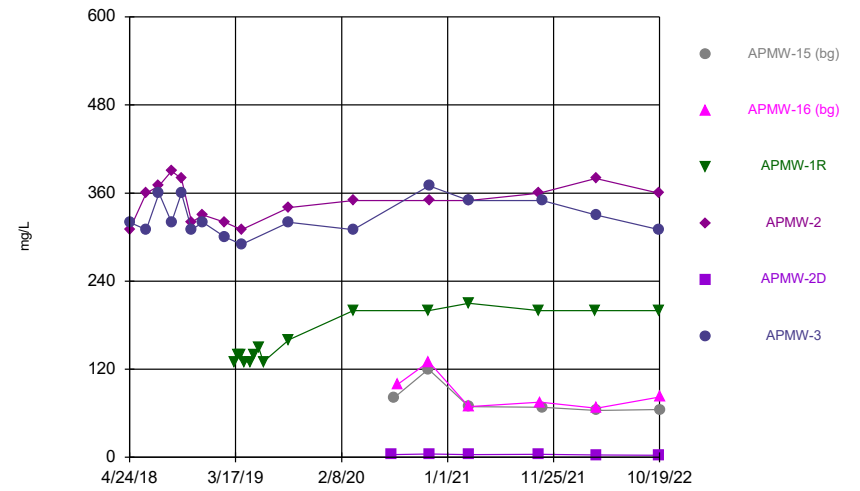
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



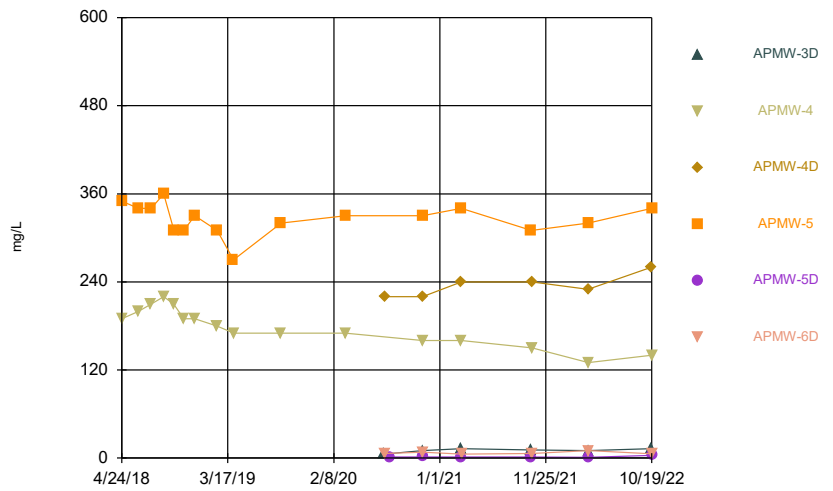
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



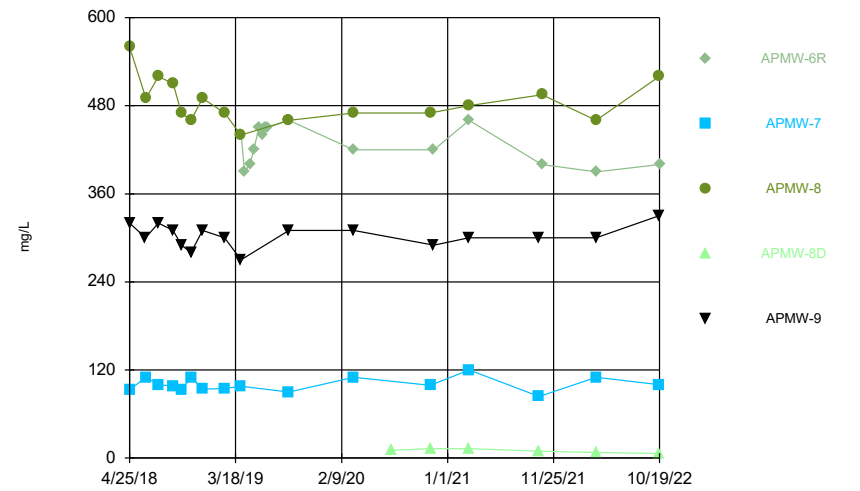
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



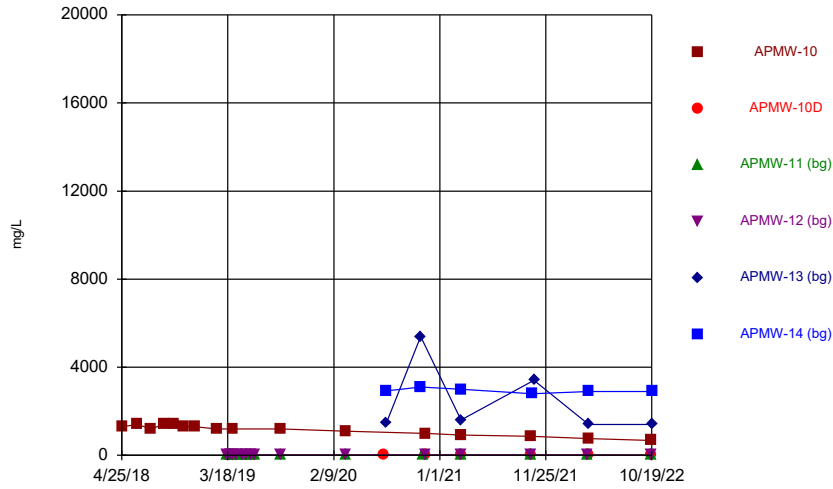
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



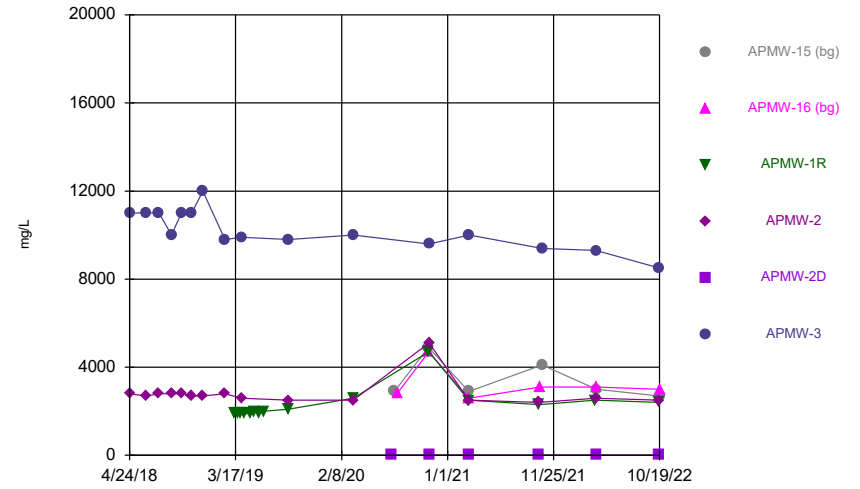
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



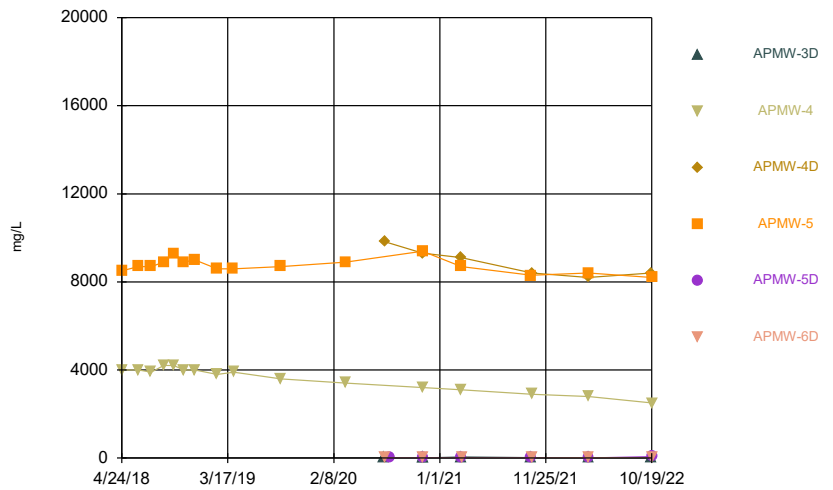
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



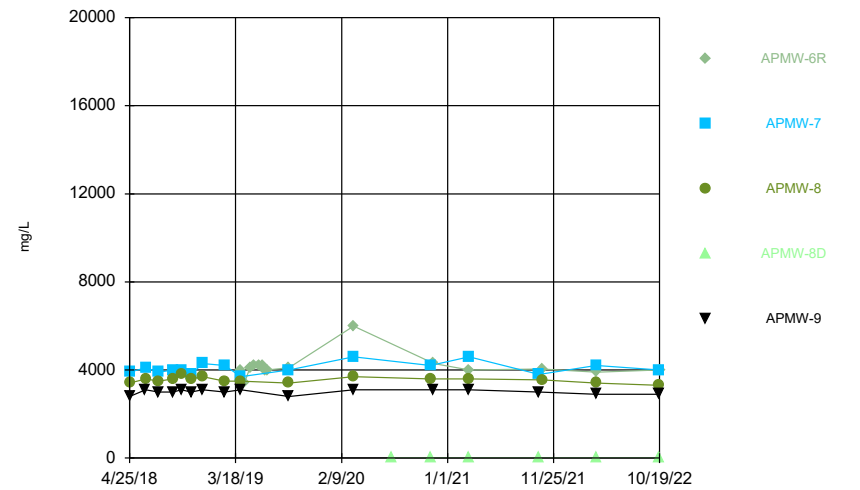
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



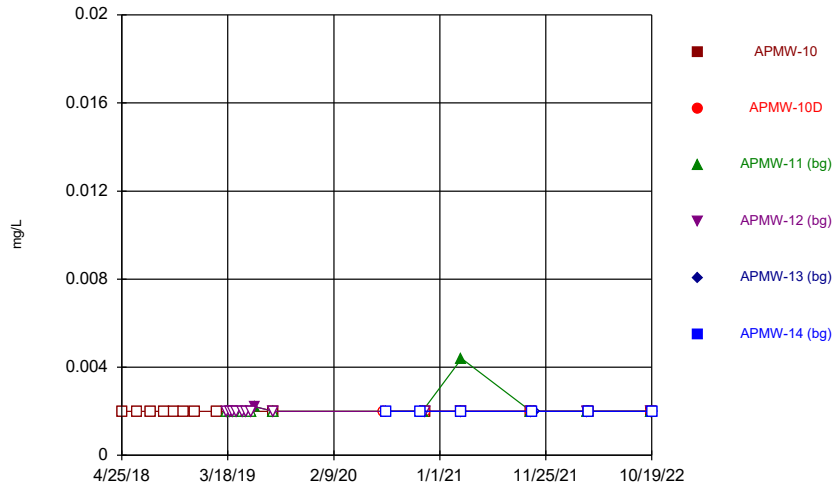
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



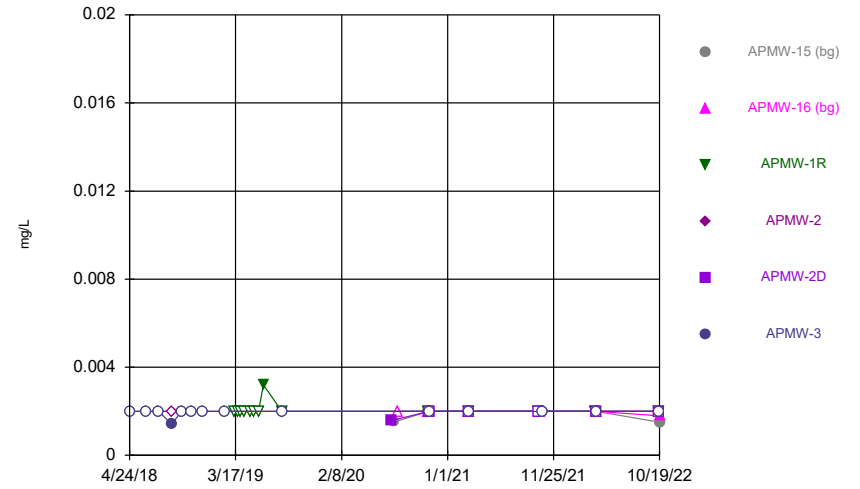
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



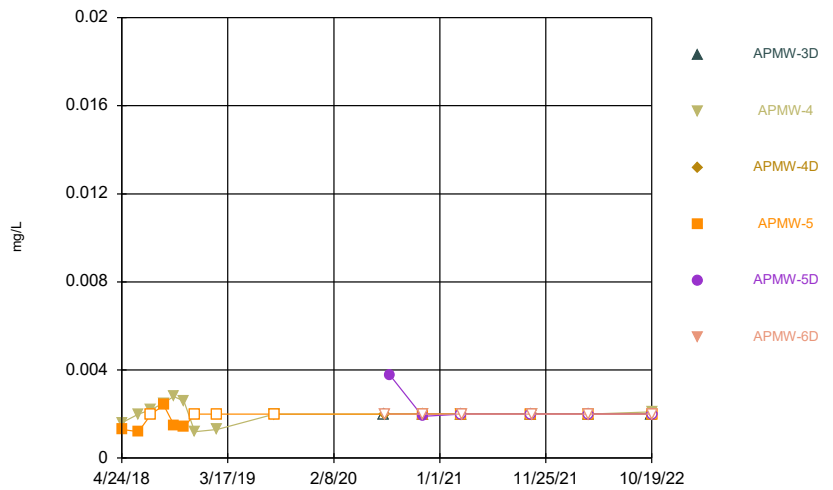
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



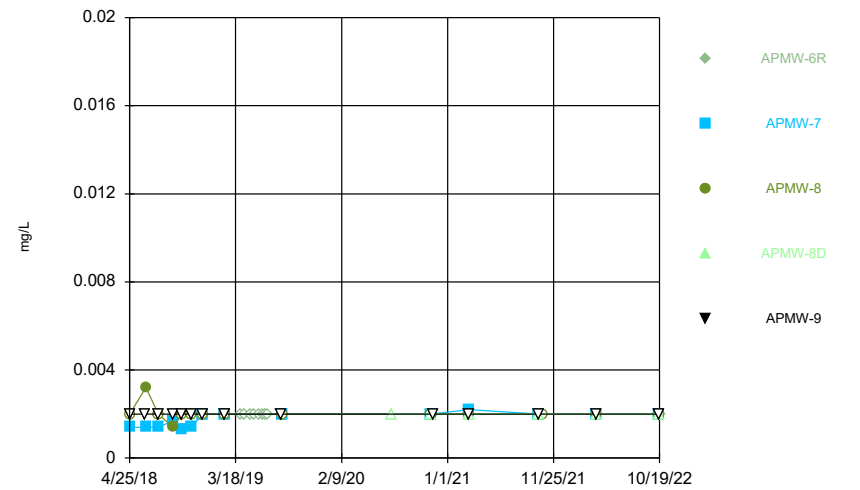
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



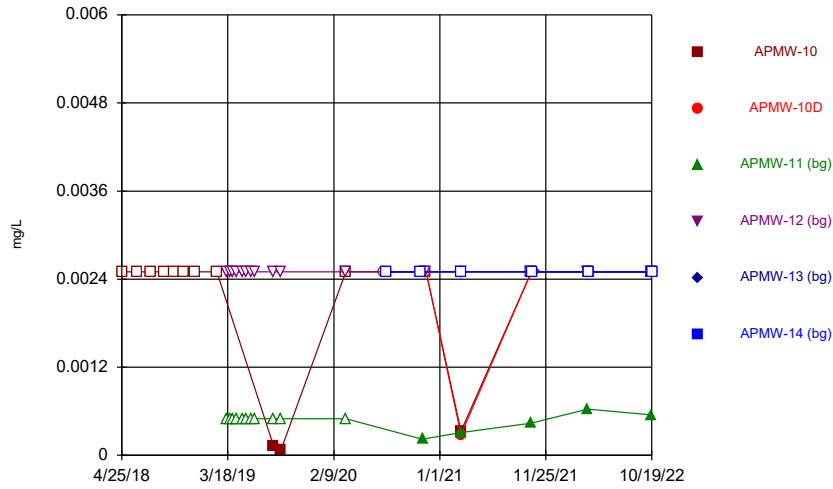
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



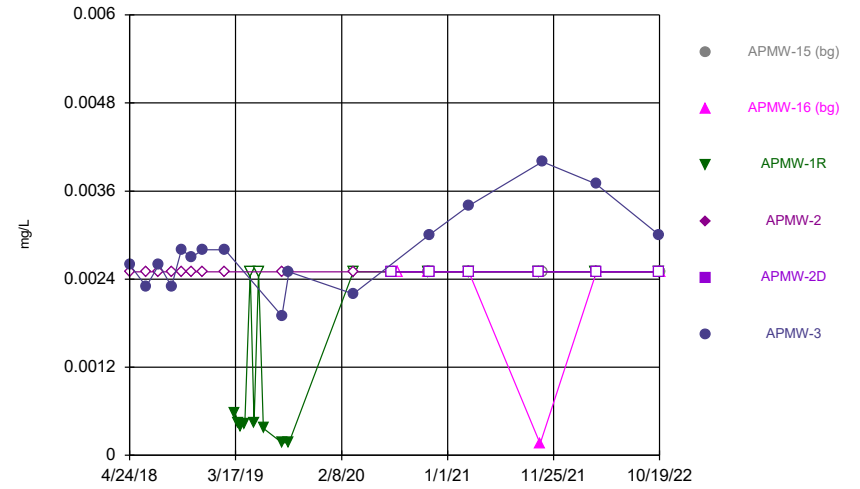
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



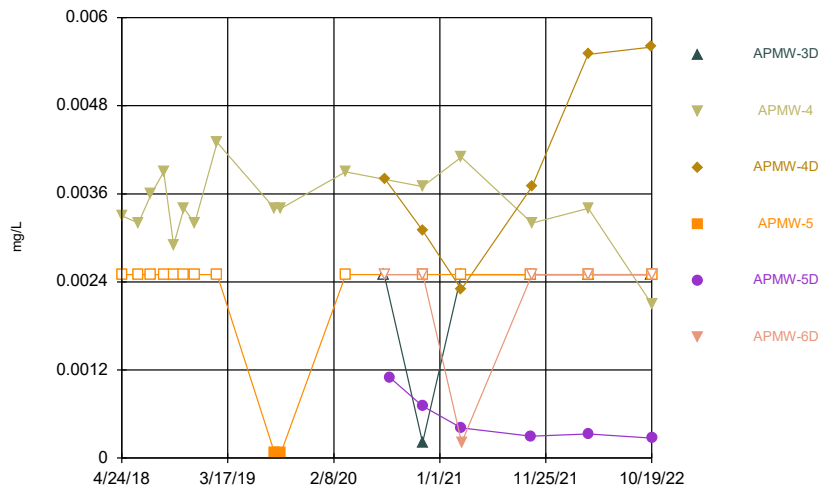
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



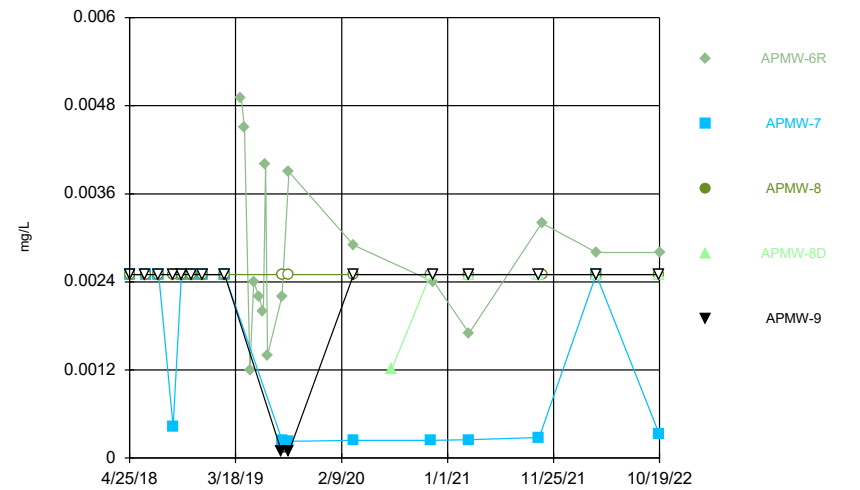
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



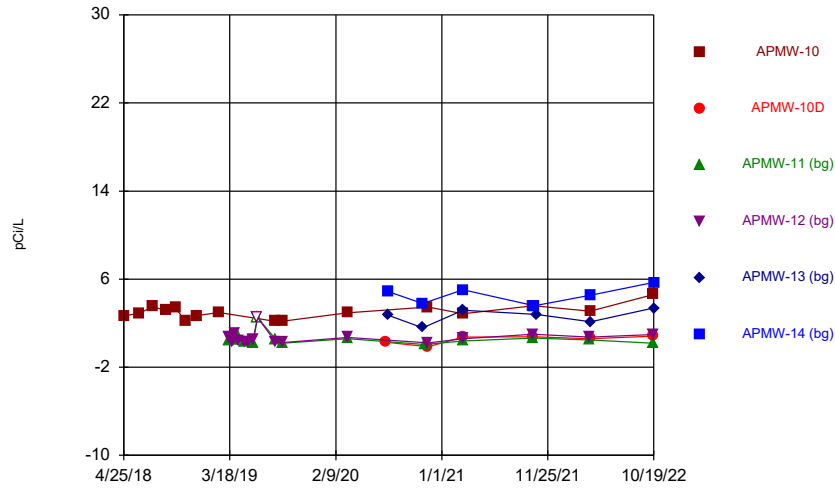
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



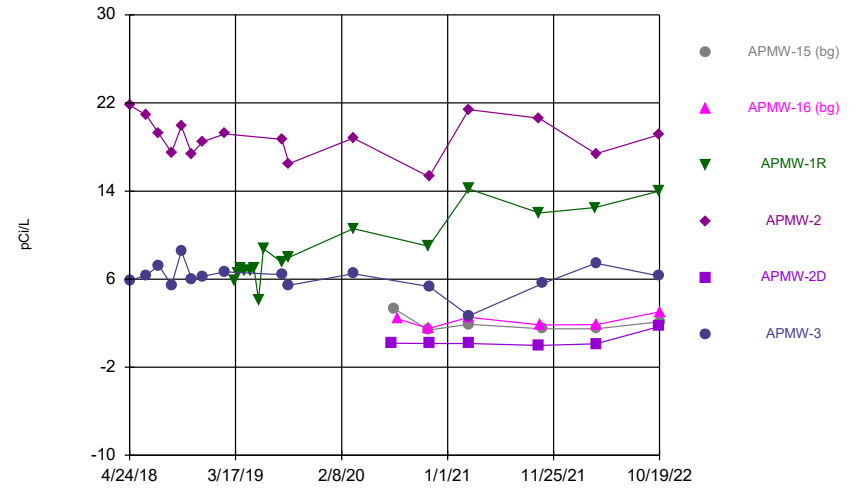
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



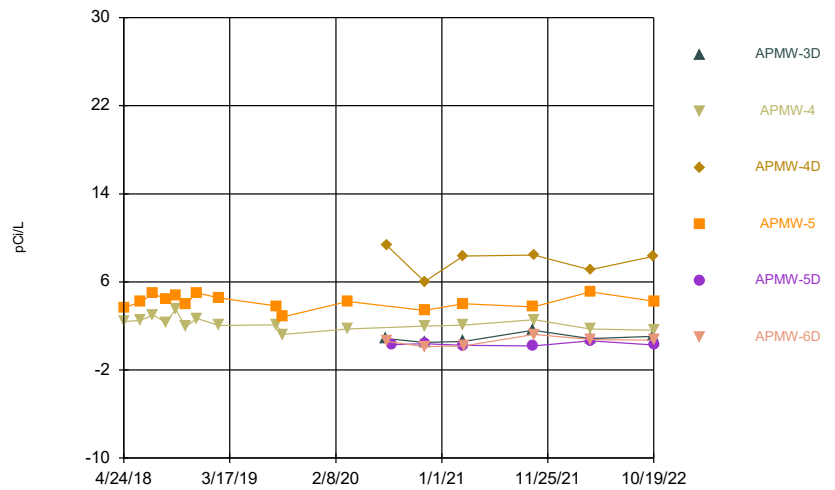
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



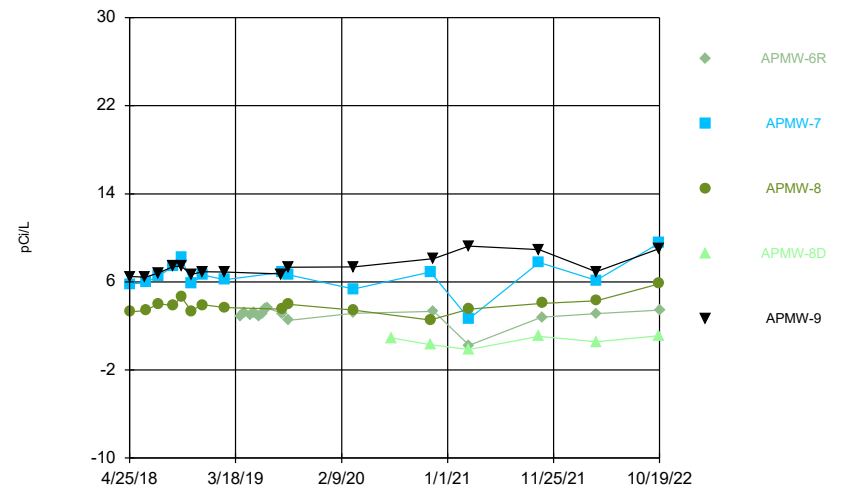
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



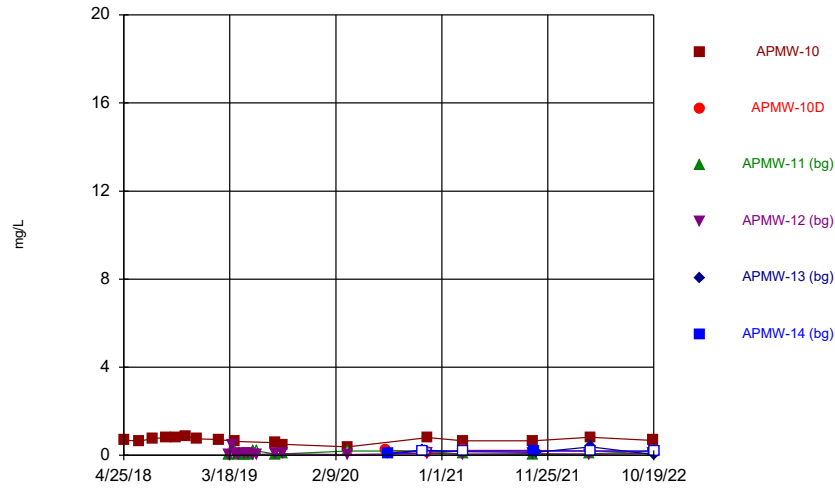
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



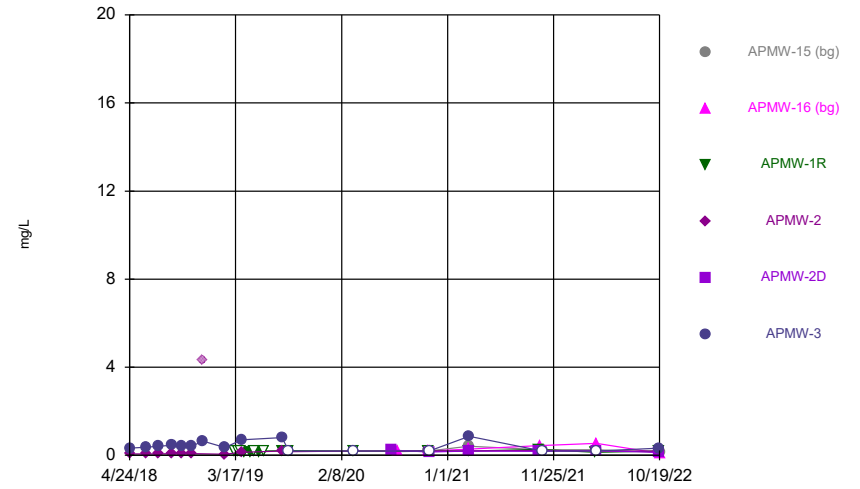
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



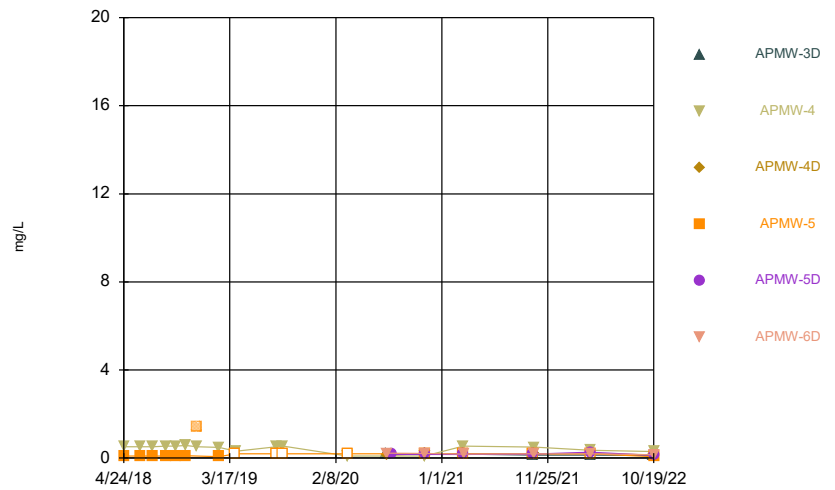
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



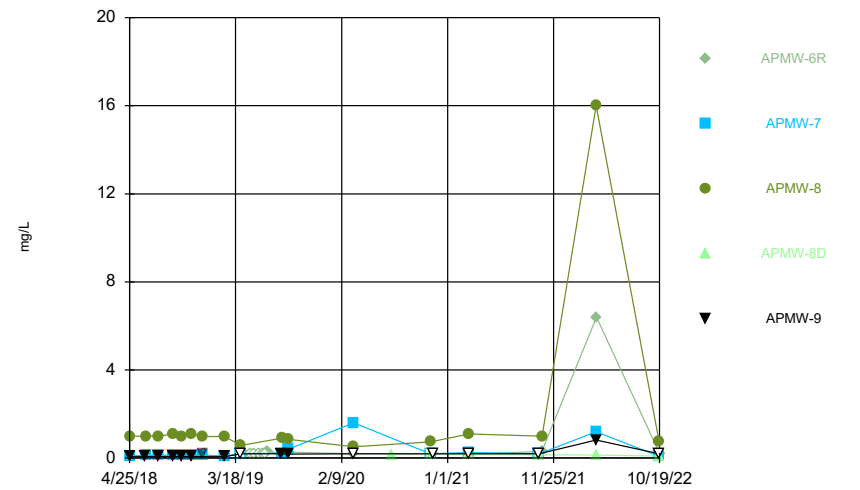
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



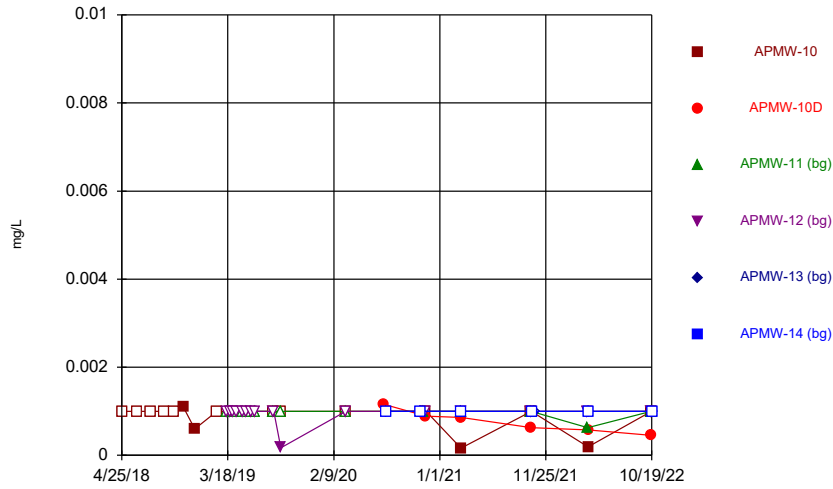
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



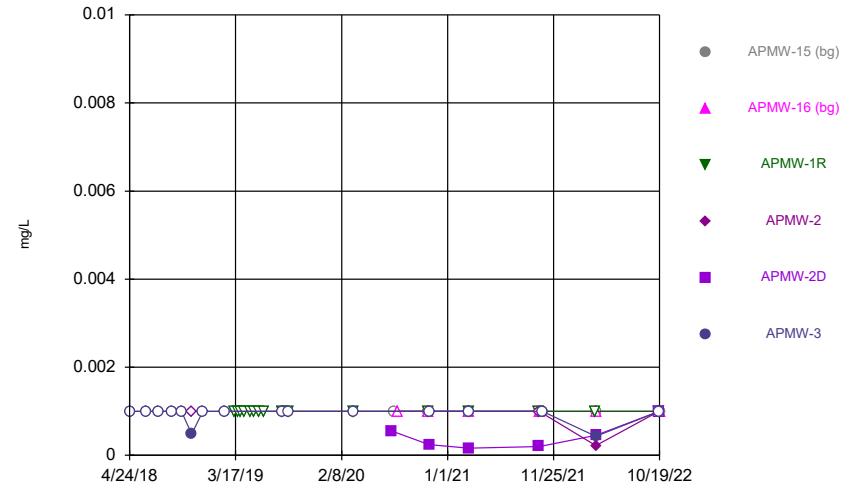
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



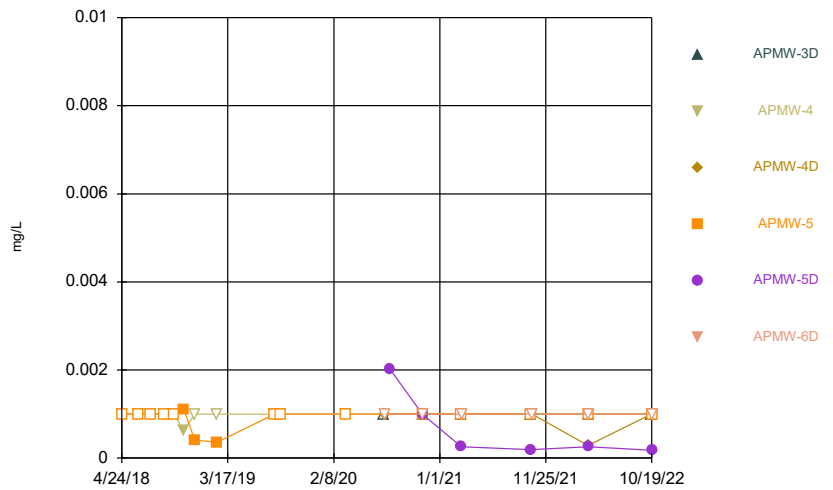
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



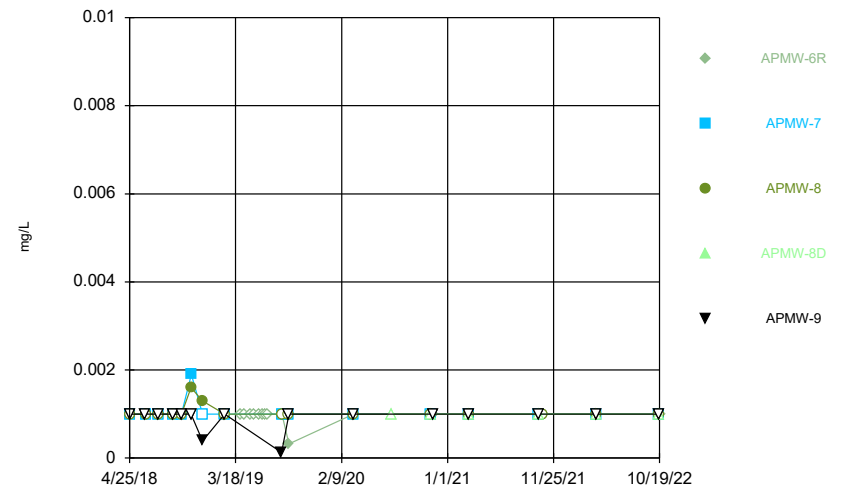
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



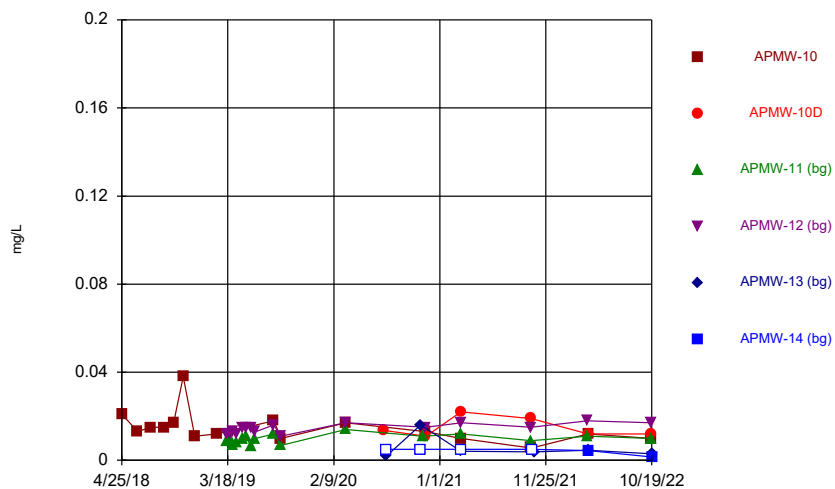
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



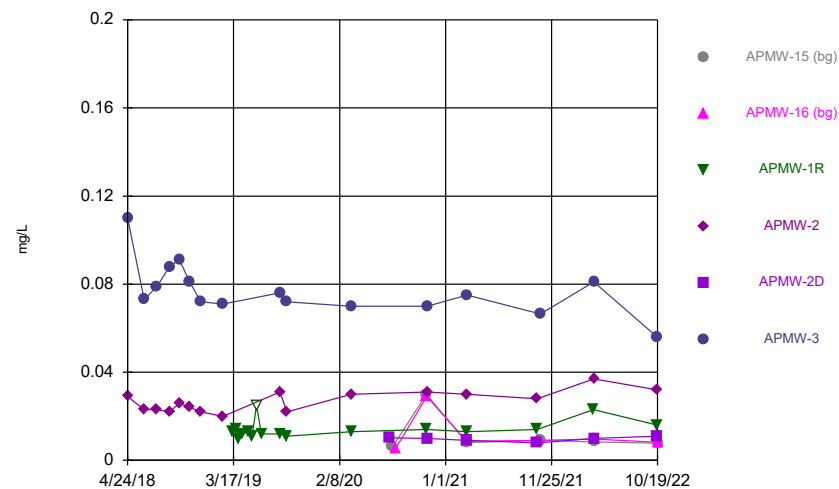
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



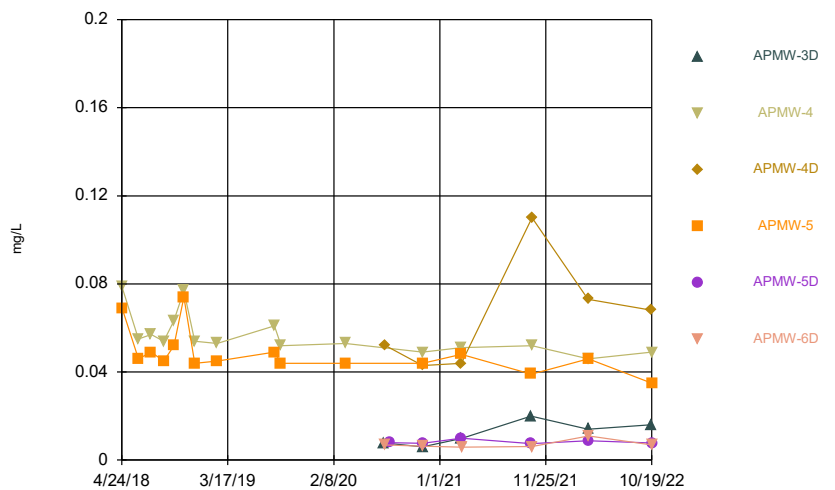
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



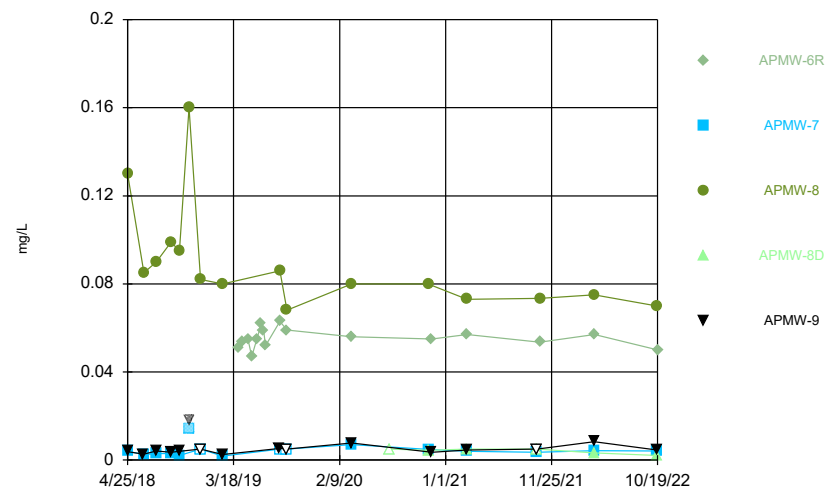
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



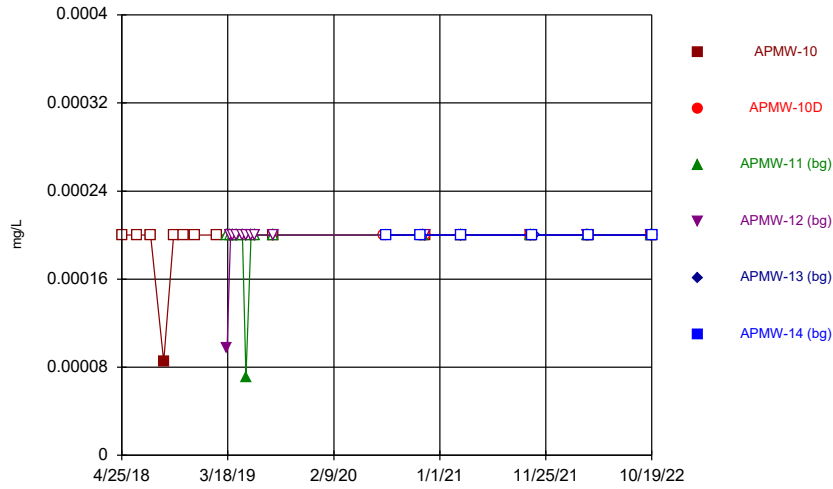
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



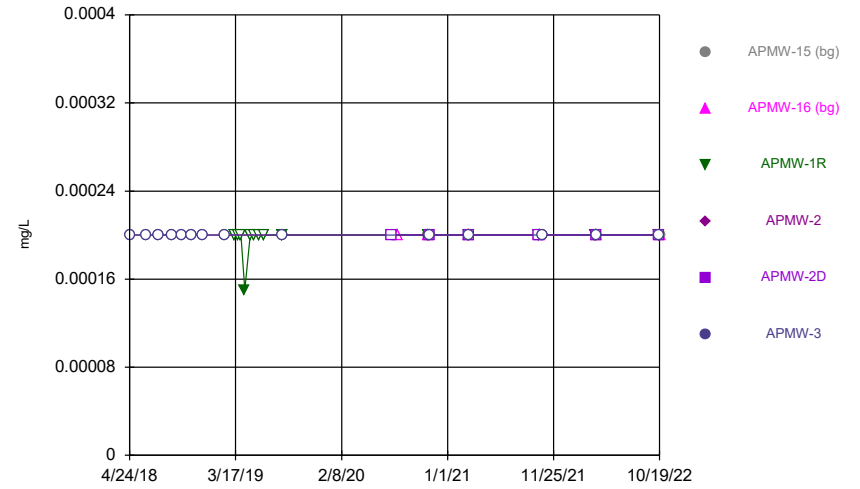
Constituent: Lithium Analysis Run 6/2/2023 12:01 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



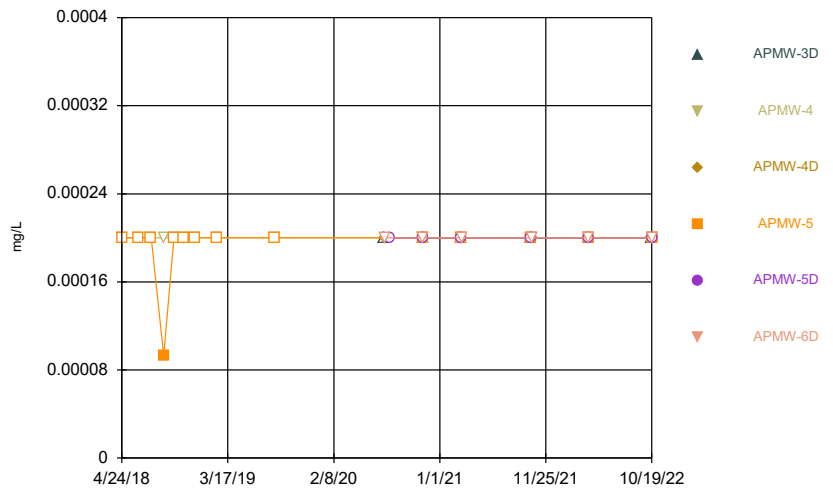
Constituent: Mercury Analysis Run 6/2/2023 12:01 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



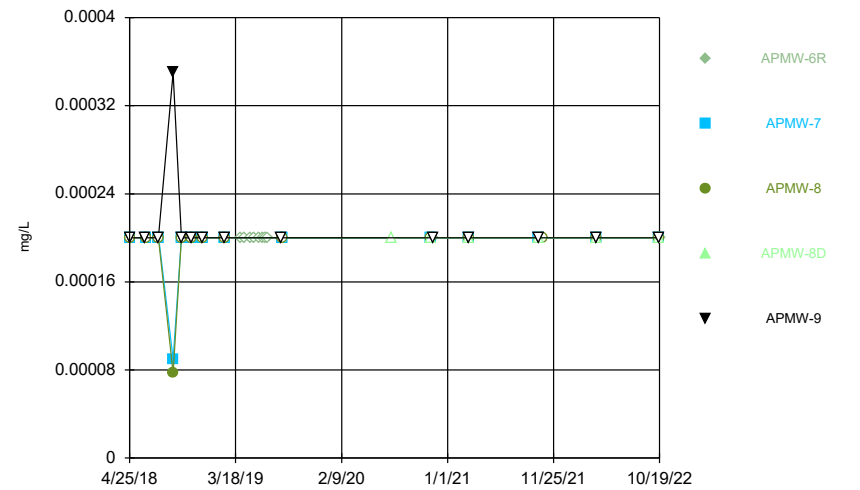
Constituent: Mercury Analysis Run 6/2/2023 12:01 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



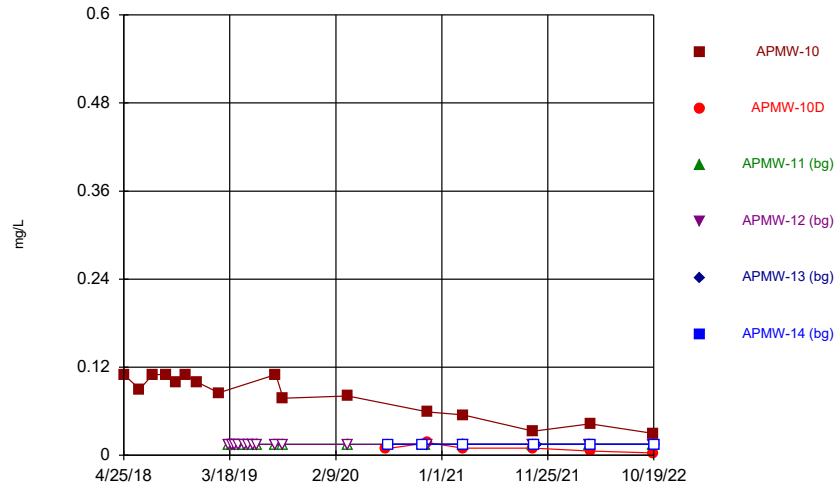
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



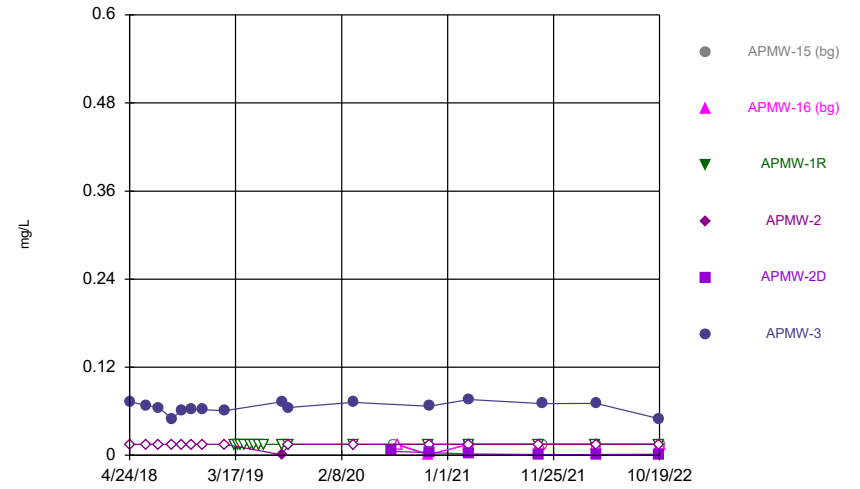
Constituent: Mercury Analysis Run 6/2/2023 12:01 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



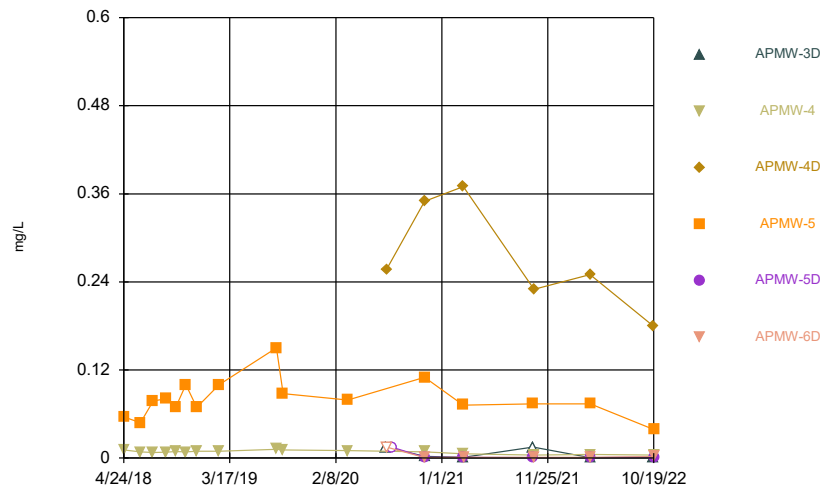
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



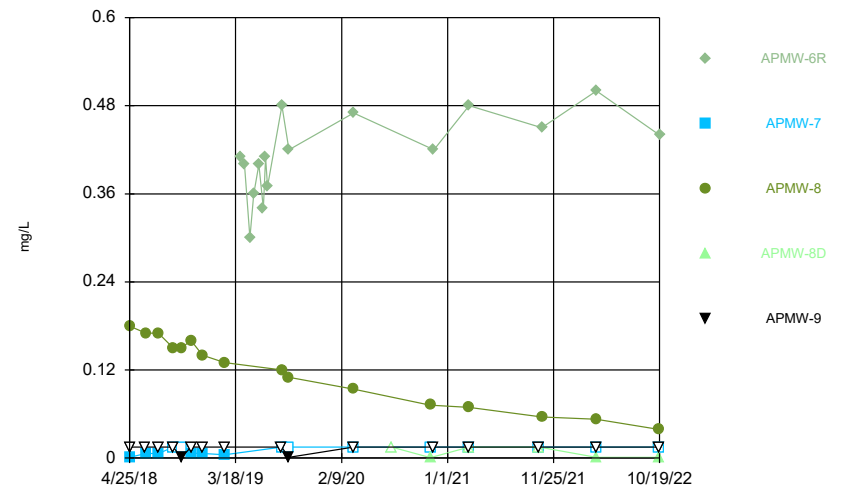
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



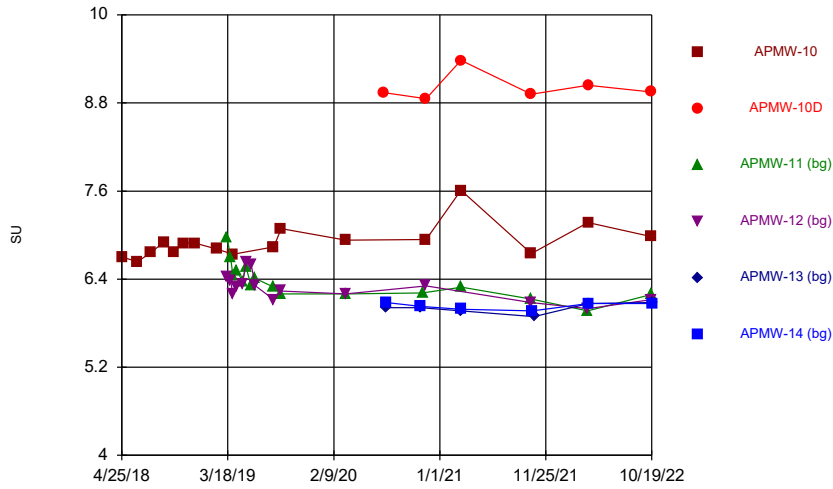
Constituent: Molybdenum Analysis Run 6/2/2023 12:01 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



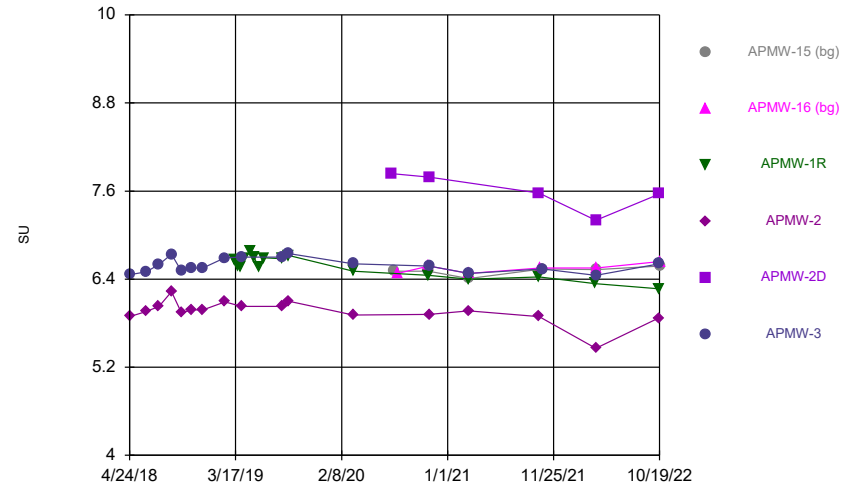
Constituent: Molybdenum Analysis Run 6/2/2023 12:01 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



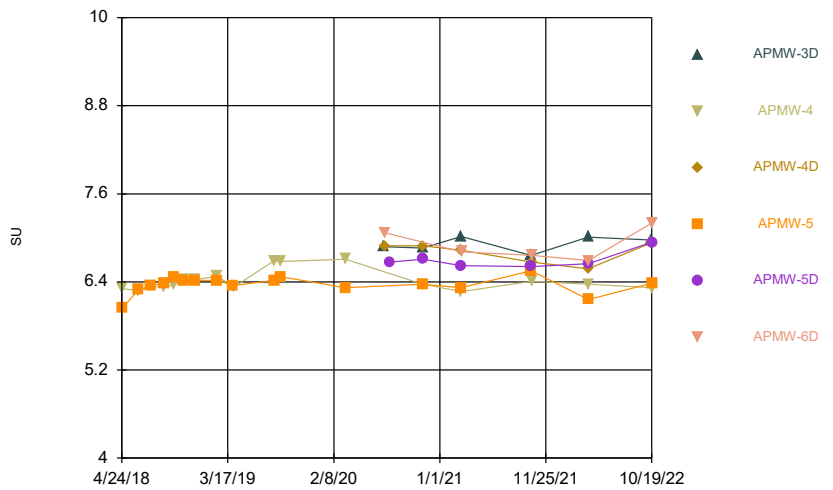
Constituent: pH Analysis Run 6/2/2023 12:01 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



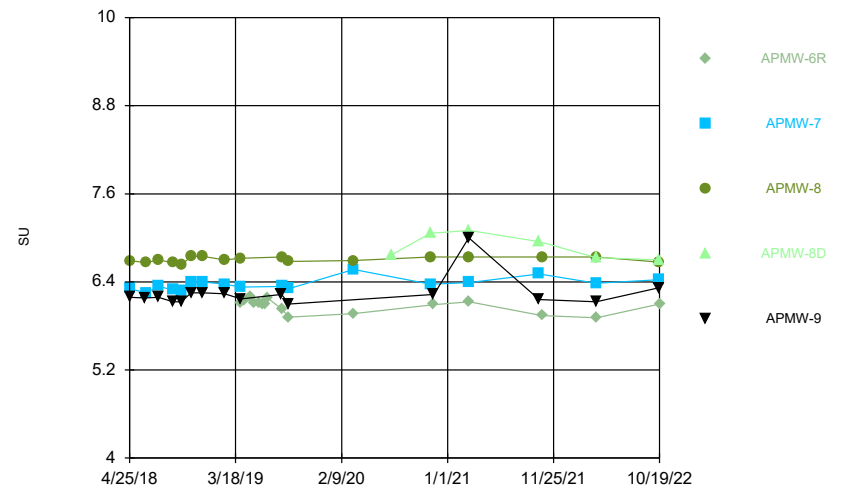
Constituent: pH Analysis Run 6/2/2023 12:01 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



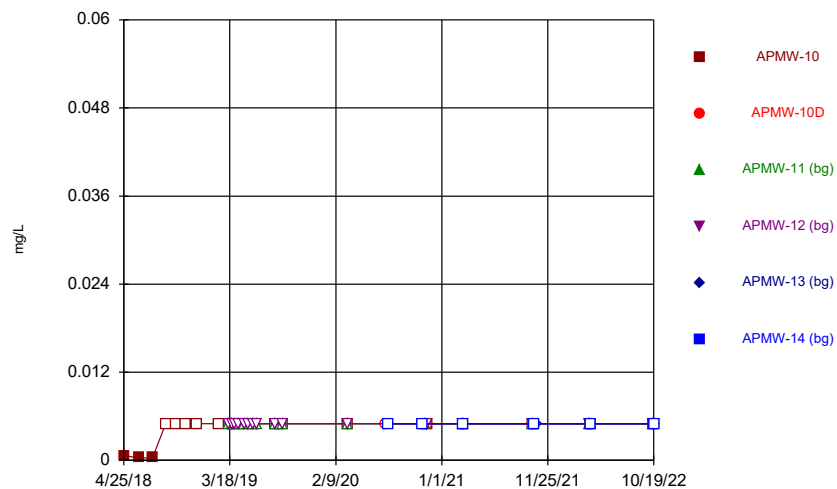
Constituent: pH Analysis Run 6/2/2023 12:01 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



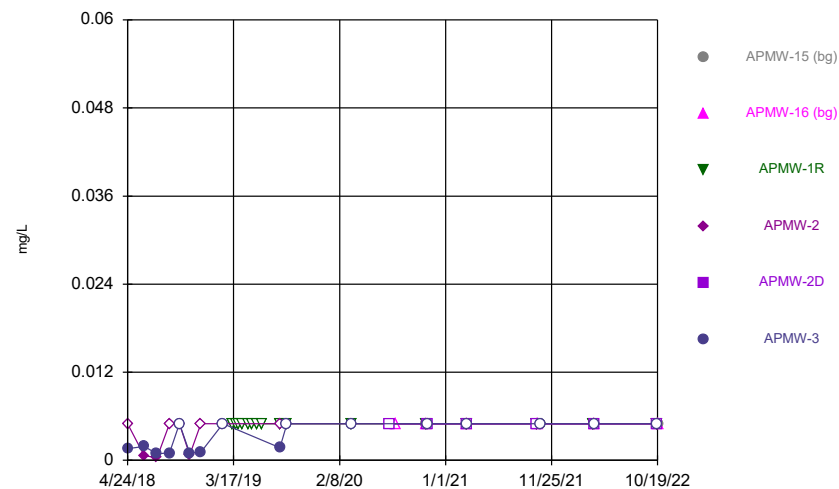
Constituent: pH Analysis Run 6/2/2023 12:01 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



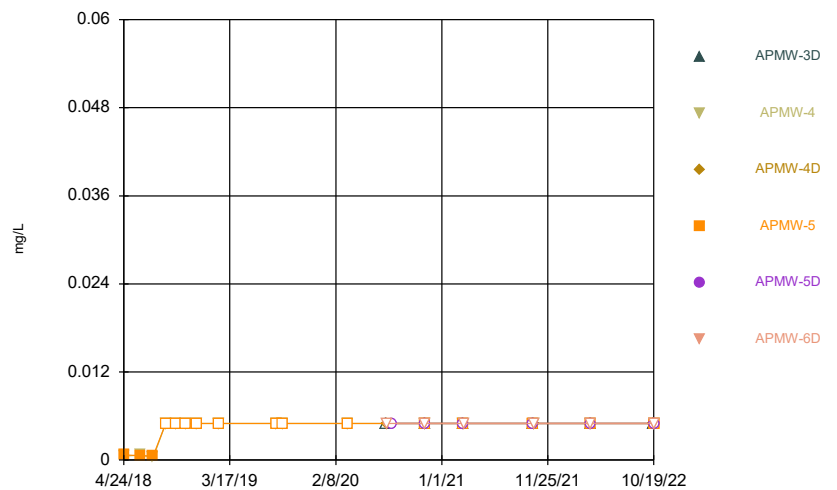
Constituent: Seleniun Analysis Run 6/2/2023 12:01 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



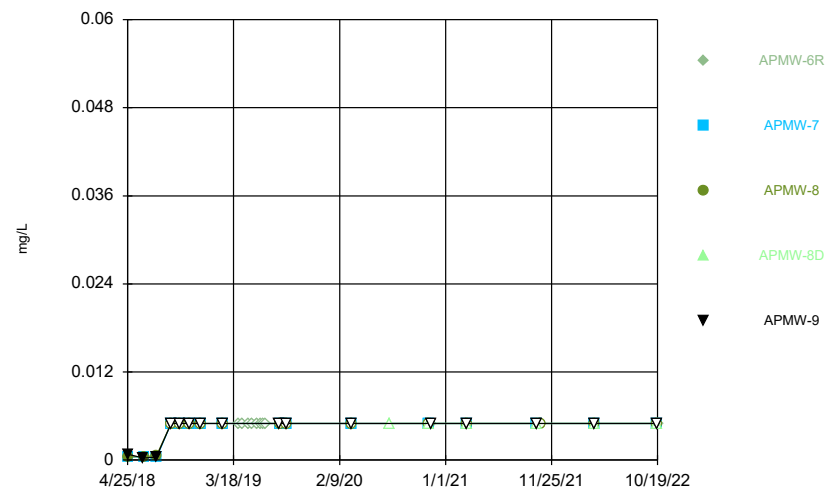
Constituent: Seleniun Analysis Run 6/2/2023 12:01 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



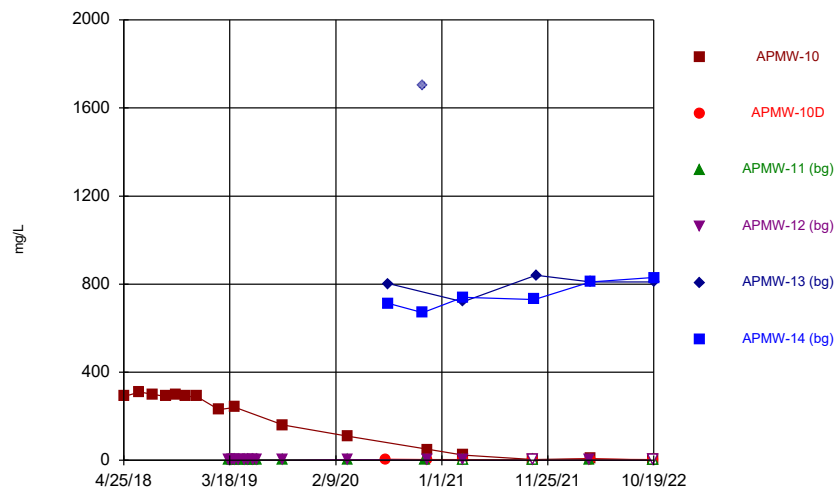
Constituent: Seleniun Analysis Run 6/2/2023 12:01 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



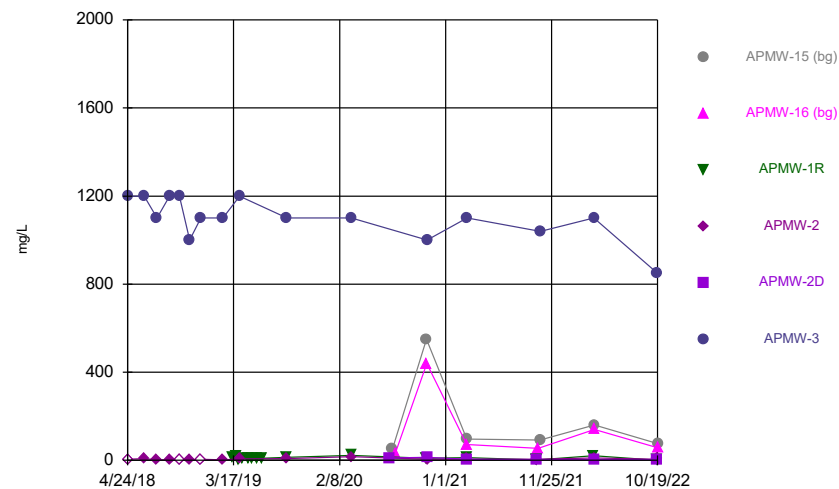
Constituent: Seleniun Analysis Run 6/2/2023 12:01 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



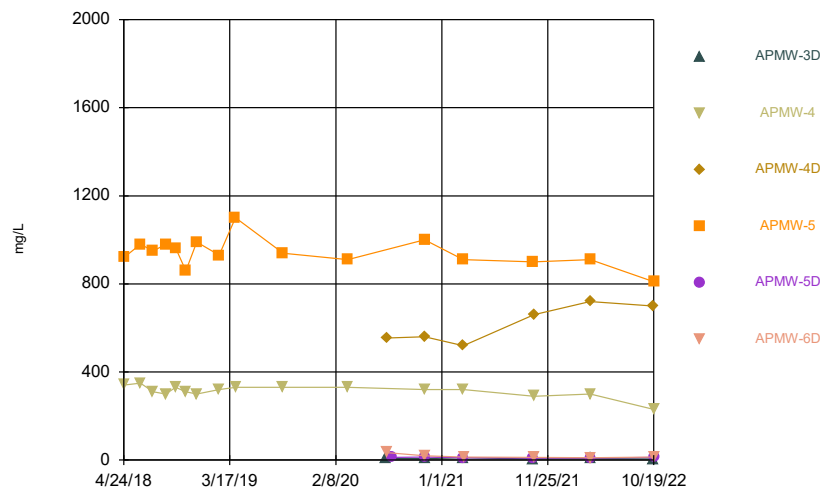
Constituent: Sulfate Analysis Run 6/2/2023 12:01 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



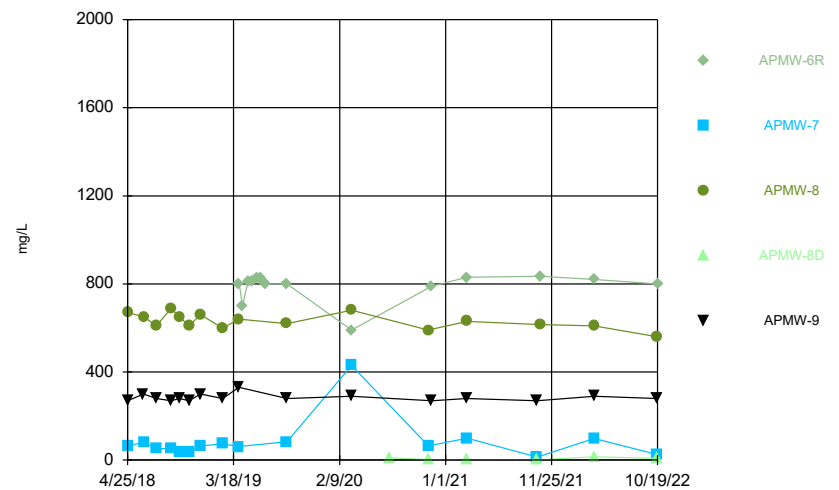
Constituent: Sulfate Analysis Run 6/2/2023 12:02 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



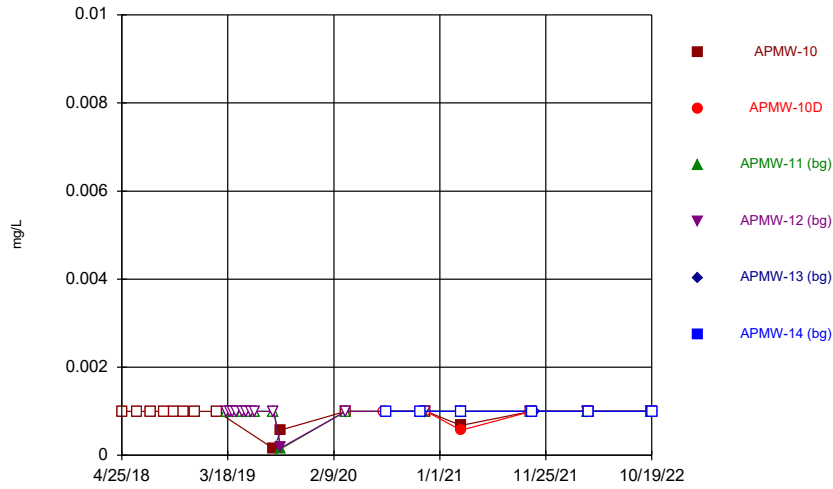
Constituent: Sulfate Analysis Run 6/2/2023 12:02 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



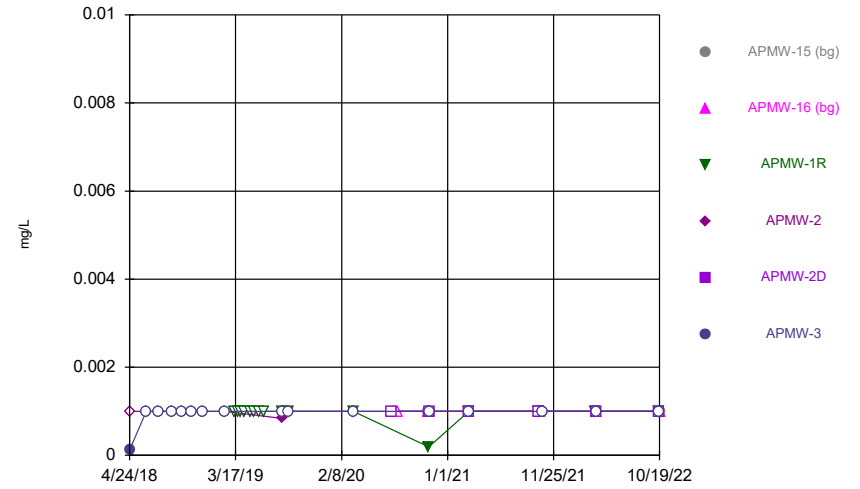
Constituent: Sulfate Analysis Run 6/2/2023 12:02 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



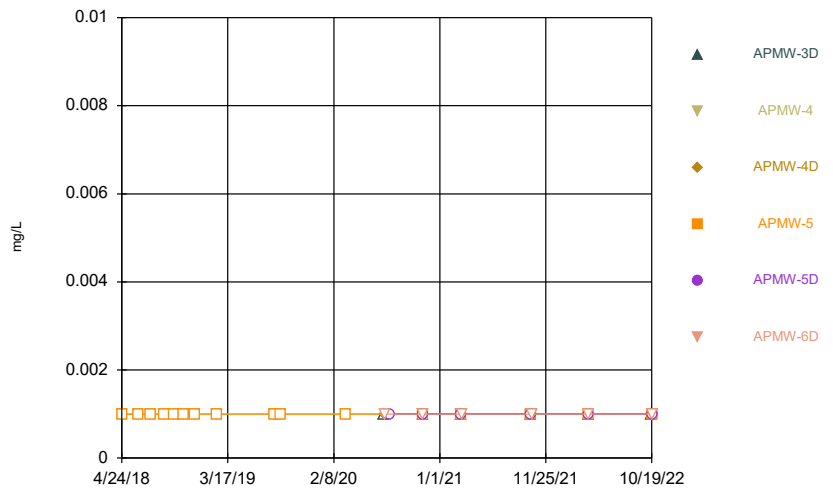
Constituent: Thallium Analysis Run 6/2/2023 12:02 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



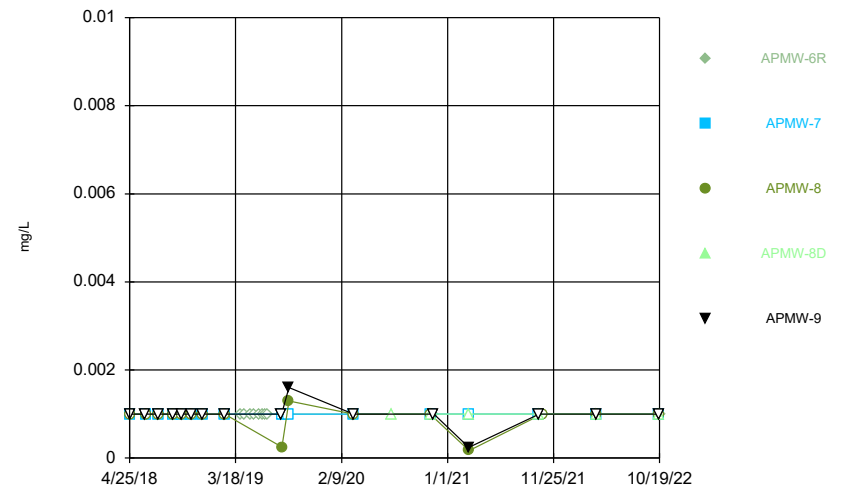
Constituent: Thallium Analysis Run 6/2/2023 12:02 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



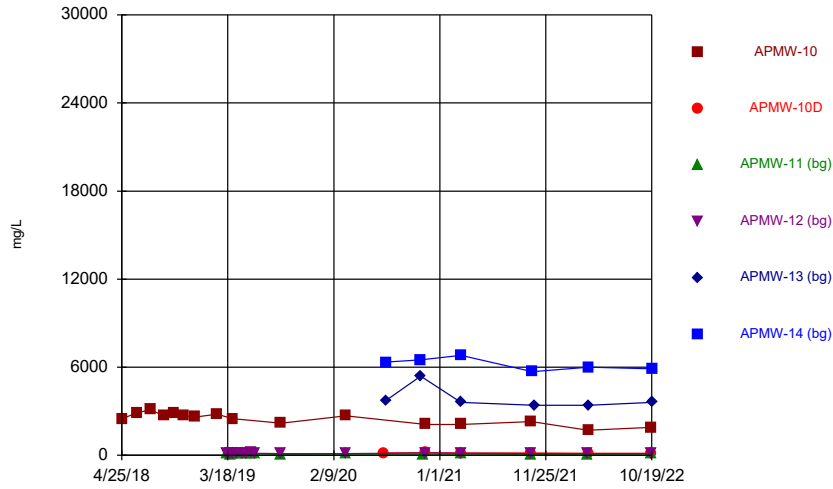
Constituent: Thallium Analysis Run 6/2/2023 12:02 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



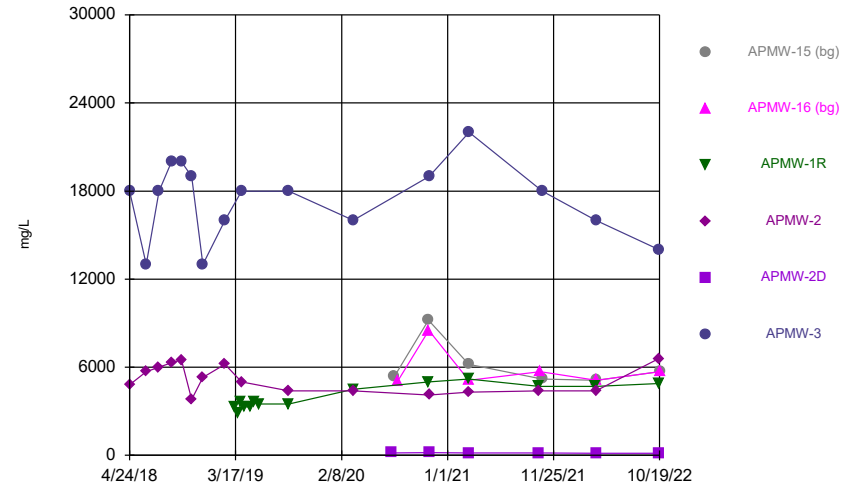
Constituent: Thallium Analysis Run 6/2/2023 12:02 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



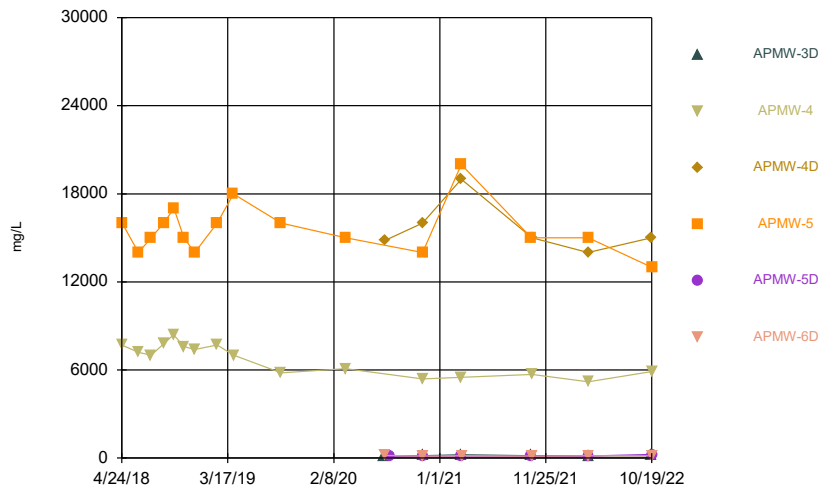
Constituent: Total Dissolved Solids Analysis Run 6/2/2023 12:02 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



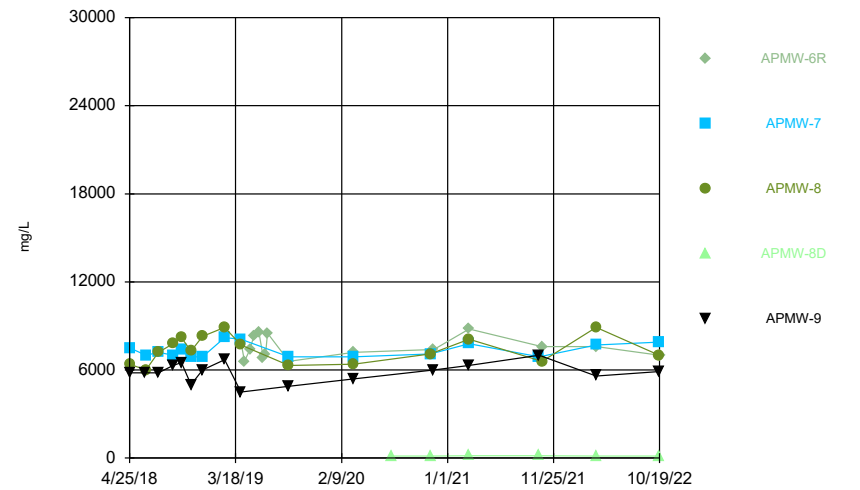
Constituent: Total Dissolved Solids Analysis Run 6/2/2023 12:02 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 6/2/2023 12:02 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 6/2/2023 12:02 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/2/2023 12:12 PM
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
10/17/2022			<0.002	<0.002		
10/18/2022	<0.002	0.00053 (J)				
10/19/2022					<0.002	<0.002

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/2/2023 12:12 PM
 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				
10/17/2022			<0.002	<0.002		
10/18/2022					<0.002	0.00059 (J)
10/19/2022	<0.002	0.00055 (J)				

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/2/2023 12:12 PM
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)
10/18/2022	<0.002		<0.002			
10/19/2022		<0.002		<0.002	<0.002	<0.002

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/2/2023 12:12 PM

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				
10/18/2022		<0.002	<0.002	<0.002	<0.002
10/19/2022	<0.002				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/2/2023 12:12 PM
 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)	<0.0013 (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
10/17/2022			<0.001	0.00034 (J)		
10/18/2022	0.037	0.0054				
10/19/2022					<0.001	0.00033 (J)

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/2/2023 12:12 PM
 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)				
10/17/2022			0.00031 (J)	<0.001		
10/18/2022					0.0028	0.061
10/19/2022	0.00062 (J)	0.0011				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/2/2023 12:12 PM
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
10/18/2022	0.0037		0.0028			
10/19/2022		0.0073		0.18	0.014	0.0031

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/2/2023 12:12 PM
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				
10/18/2022		0.00066 (J)	0.02	0.0027	0.0014
10/19/2022	0.21				

Time Series

Constituent: Barium (mg/L) Analysis Run 6/2/2023 12:12 PM
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
10/17/2022			0.037	0.057		
10/18/2022	0.37	0.027				
10/19/2022					0.23	0.19

Time Series

Constituent: Barium (mg/L) Analysis Run 6/2/2023 12:12 PM
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				
10/17/2022			1.7	3.4		
10/18/2022					0.067	0.096
10/19/2022	0.043	0.069				

Time Series

Constituent: Barium (mg/L) Analysis Run 6/2/2023 12:12 PM
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
10/18/2022	0.19		0.088			
10/19/2022		0.23		0.1	0.053	0.073

Time Series

Constituent: Barium (mg/L) Analysis Run 6/2/2023 12:12 PM
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)				
10/18/2022		0.97	0.24	0.1	0.5
10/19/2022	0.044				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/2/2023 12:12 PM
 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
10/17/2022			<0.0025	<0.0025		
10/18/2022	<0.0025	<0.0025				
10/19/2022					<0.0025	<0.0025

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/2/2023 12:12 PM

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				
10/17/2022			<0.0025	<0.0025		
10/18/2022					<0.0025	<0.0025
10/19/2022	<0.0025	<0.0025				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/2/2023 12:12 PM
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
10/18/2022	<0.0025		<0.0025			
10/19/2022		<0.0025		<0.0025	<0.0025	<0.0025

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/2/2023 12:12 PM

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				
10/18/2022		<0.0025	<0.0025	<0.0025	<0.0025
10/19/2022	<0.0025				

Time Series

Constituent: Boron (mg/L) Analysis Run 6/2/2023 12:12 PM
 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
10/17/2022			<0.08	<0.08		
10/18/2022	2.4	0.21				
10/19/2022					0.66	0.75

Time Series

Constituent: Boron (mg/L) Analysis Run 6/2/2023 12:12 PM

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				
10/17/2022			1.3	3.1		
10/18/2022					0.16	5.6
10/19/2022	0.73	0.71				

Time Series

Constituent: Boron (mg/L) Analysis Run 6/2/2023 12:12 PM

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
10/18/2022	0.11		3.4			
10/19/2022		1.3		6.5	0.14	0.13

Time Series

Constituent: Boron (mg/L) Analysis Run 6/2/2023 12:12 PM

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				
10/18/2022		1.2	23	0.14	7.1
10/19/2022	11				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/2/2023 12:12 PM
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
10/17/2022			<0.0025	<0.0025		
10/18/2022	<0.0025	<0.0025				
10/19/2022					<0.0025	<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/2/2023 12:12 PM

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				
10/17/2022			<0.0025	<0.0025		
10/18/2022					<0.0025	<0.0025
10/19/2022	<0.0025	<0.0025				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/2/2023 12:12 PM
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
10/18/2022	<0.0025		<0.0025			
10/19/2022		<0.0025		<0.0025	<0.0025	<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/2/2023 12:12 PM

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				
10/18/2022		<0.0025	<0.0025	<0.0025	<0.0025
10/19/2022	<0.0025				

Time Series

Constituent: Calcium (mg/L) Analysis Run 6/2/2023 12:12 PM
 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
10/17/2022			9.5	10		
10/18/2022	46	2.7				
10/19/2022					100	110

Time Series

Constituent: Calcium (mg/L) Analysis Run 6/2/2023 12:12 PM

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				
10/17/2022			200	360		
10/18/2022					2.6	310
10/19/2022	65	82				

Time Series

Constituent: Calcium (mg/L) Analysis Run 6/2/2023 12:12 PM

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
10/18/2022	13		260			
10/19/2022		140		340	3.5	6

Time Series

Constituent: Calcium (mg/L) Analysis Run 6/2/2023 12:12 PM

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				
10/18/2022		100	520	6.1	330
10/19/2022	400				

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/2/2023 12:12 PM
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
10/17/2022			7.5	13		
10/18/2022	680	4.3				
10/19/2022					1400	2900

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/2/2023 12:12 PM

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				
10/17/2022			2400	2500		
10/18/2022					4.4	8500
10/19/2022	2700	3000				

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/2/2023 12:12 PM

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
10/18/2022	23		8400			
10/19/2022		2500		8200	64	11

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/2/2023 12:12 PM

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				
10/18/2022		4000	3300	6.1	2900
10/19/2022	4000				

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/2/2023 12:12 PM
 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
10/17/2022			<0.002	<0.002		
10/18/2022	<0.002	<0.002				
10/19/2022					<0.002	<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/2/2023 12:12 PM
 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				
10/17/2022			<0.002	<0.002		
10/18/2022					<0.002	<0.002
10/19/2022	0.0015 (J)	0.0018 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/2/2023 12:12 PM
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
10/18/2022	<0.002		<0.002			
10/19/2022		0.0021		<0.002	<0.002	<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/2/2023 12:12 PM

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				
10/18/2022		<0.002	<0.002	<0.002	<0.002
10/19/2022	<0.002				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/2/2023 12:12 PM
 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			<0.0005	<0.0025		
3/27/2019			<0.0005 (D)	<0.0025 (D)		
4/3/2019			<0.0005 (D)	<0.0025 (D)		
4/16/2019			<0.0005	<0.0025		
5/3/2019			<0.0005	<0.0025		
5/14/2019			<0.0005	<0.0025		
5/29/2019			<0.0005	<0.0025		
6/12/2019			<0.0005	<0.0025		
8/8/2019	0.00012 (J)		<0.0005	<0.0025		
8/29/2019			<0.0005	<0.0025		
8/30/2019	8.2E-05 (J)					
3/17/2020	<0.0025		<0.0005	<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
10/17/2022			0.00055 (J)	<0.0025		
10/18/2022	<0.0025	<0.0025				
10/19/2022					<0.0025	<0.0025

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/2/2023 12:12 PM
 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				
10/17/2022			<0.0025	<0.0025		
10/18/2022					<0.0025	0.003
10/19/2022	<0.0025	<0.0025				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/2/2023 12:12 PM
 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
10/18/2022	<0.0025		0.0056			
10/19/2022		0.0021 (J)		<0.0025	0.00027 (J)	<0.0025

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/2/2023 12:12 PM
 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				
10/18/2022		0.00033 (J)	<0.0025	<0.0025	<0.0025
10/19/2022	0.0028				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/2/2023 12:12 PM

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
10/17/2022			0.184 (U)	0.971		
10/18/2022	4.61	0.815				
10/19/2022					3.37	5.71

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/2/2023 12:12 PM

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				
10/17/2022			14	19.1		
10/18/2022					1.7	6.3
10/19/2022	2.13	3.02				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/2/2023 12:12 PM

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
10/18/2022	1.07		8.32			
10/19/2022		1.61		4.24	0.259 (U)	0.7

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/2/2023 12:12 PM

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				
10/18/2022		9.51	5.83	1.12	9.03
10/19/2022	3.45				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/2/2023 12:12 PM
 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			<0.2 (D)	0.49 (D)		
4/3/2019			<0.2 (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			<0.2	0.042 (J)		
6/12/2019			<0.2	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		<0.2	0.036 (J)		
7/13/2020		0.24				
7/21/2020				0.09 (J)	0.07 (J)	
11/4/2020				0.24 (J)	<0.2	
11/9/2020			<0.2			
11/20/2020	0.81	0.13 (J)		<0.2		
3/8/2021	0.66	0.23			0.17 (J)	<0.2
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)	<0.2
10/17/2022			<0.2	<0.2		
10/18/2022	0.68	0.18 (J)				
10/19/2022					0.034 (J)	<0.2

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/2/2023 12:12 PM

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			<0.2			
3/27/2019			<0.2			
4/3/2019			<0.2			
4/5/2019				0.14 (J)		0.7 (J)
4/15/2019			0.14 (J)			
5/2/2019			0.13 (J)			
5/14/2019			<0.2			
5/28/2019			0.16 (J)			
6/12/2019			<0.2			
8/8/2019			0.21 (J)	0.19 (J)		0.8 (J)
8/30/2019			0.21 (J)	0.17 (J)		<0.2
3/16/2020			<0.2	<0.2		<0.2
7/11/2020					0.24	
7/21/2020	0.17					
7/30/2020		0.19				
11/3/2020	<0.2					
11/4/2020		<0.2	<0.2			
11/5/2020				<0.2	0.15 (J)	<0.2
3/8/2021	0.41 (J)	0.28 (J)	<0.2	<0.2	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						<0.2
4/4/2022			0.13 (J)			
4/5/2022				<0.2	0.21	<0.2
4/7/2022	0.25 (J)	0.54 (J)				
10/17/2022			<0.2	<0.2		
10/18/2022					0.14 (J)	0.32 (J)
10/19/2022	0.13 (J)	0.094 (J)				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/2/2023 12:12 PM
 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				<0.2		
4/5/2019		0.31 (J)				
8/9/2019		0.51		<0.2		
8/30/2019		0.54 (J)		<0.2		
3/16/2020		<0.2				
3/17/2020				<0.2		
7/13/2020	0.17					
7/14/2020			0.14			0.22
7/30/2020					0.17	
11/9/2020	0.18 (J)	<0.2	<0.2	<0.2	0.17 (J)	
11/10/2020						0.21
3/9/2021	0.18 (J)	0.55 (J)	<0.2	<0.2	0.17 (J)	
3/10/2021						0.18 (J)
10/11/2021	0.14 (J)				0.18 (J)	
10/12/2021				<0.2		
10/14/2021		0.5 (J)	<0.2			0.19 (J)
4/5/2022	0.13 (J)		<0.2			
4/6/2022		0.36 (J)		<0.2	0.27	
4/7/2022						0.2
10/18/2022	0.12 (J)		0.15 (J)			
10/19/2022		0.29		0.065 (J)	0.12 (J)	0.15 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/2/2023 12:12 PM

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		<0.2	0.58 (J)		<0.2
4/5/2019	<0.2 (D)				
4/15/2019	<0.2				
5/2/2019	<0.2				
5/14/2019	<0.2				
5/29/2019	<0.2				
6/12/2019	<0.2				
6/19/2019	<0.2				
6/25/2019	0.32 (J)				
8/8/2019					0.2 (J)
8/9/2019	<0.2	0.22 (J)	0.9 (J)		
8/30/2019	0.27 (J)	0.41 (J)	0.85 (J)		0.18 (J)
3/17/2020	<0.2	1.6	0.52 (J)		<0.2
7/13/2020				0.15	
11/9/2020			0.74 (J)		
11/10/2020		<0.2		0.22	
11/20/2020	<0.2				<0.2
3/8/2021					<0.2
3/9/2021	<0.2	0.26 (J)	1.1 (J)	0.17 (J)	
10/12/2021		<0.2		0.15 (J)	<0.2
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				
10/18/2022		0.084 (J)	0.73	0.091 (J)	<0.2
10/19/2022	0.22				

Time Series

Constituent: Lead (mg/L) Analysis Run 6/2/2023 12:12 PM
 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
10/17/2022			<0.001	<0.001		
10/18/2022	<0.001	0.00045 (J)				
10/19/2022					<0.001	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 6/2/2023 12:12 PM

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				
10/17/2022			<0.001	<0.001		
10/18/2022					<0.001	<0.001
10/19/2022	<0.001	<0.001				

Time Series

Constituent: Lead (mg/L) Analysis Run 6/2/2023 12:12 PM

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
10/18/2022	<0.001		<0.001			
10/19/2022		<0.001		<0.001	0.00018 (J)	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 6/2/2023 12:12 PM

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				
10/18/2022		<0.001	<0.001	<0.001	<0.001
10/19/2022	<0.001				

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/2/2023 12:12 PM
 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)
10/17/2022			0.01	0.017		
10/18/2022	0.01	0.012				
10/19/2022					0.0029 (J)	0.0015 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/2/2023 12:12 PM
 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			<0.05			
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				
10/17/2022			0.016	0.032		
10/18/2022					0.011	0.056
10/19/2022	0.0077	0.0082				

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/2/2023 12:12 PM
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
10/18/2022	0.016		0.068			
10/19/2022		0.049		0.035	0.0077	0.0069

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/2/2023 12:12 PM
 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				
10/18/2022		0.0041 (J)	0.07	0.0021 (J)	0.0046 (J)
10/19/2022	0.05				

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/2/2023 12:12 PM
 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
10/17/2022			<0.0002	<0.0002		
10/18/2022	<0.0002	<0.0002				
10/19/2022					<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/2/2023 12:12 PM

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				
10/17/2022			<0.0002	<0.0002		
10/18/2022					<0.0002	<0.0002
10/19/2022	<0.0002	<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/2/2023 12:12 PM

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
10/18/2022	<0.0002		<0.0002			
10/19/2022		<0.0002		<0.0002	<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/2/2023 12:12 PM

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				
10/18/2022		<0.0002	<0.0002	<0.0002	<0.0002
10/19/2022	<0.0002				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/2/2023 12:12 PM
 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
10/17/2022			<0.015	<0.015		
10/18/2022	0.03	0.0033 (J)				
10/19/2022					<0.015	<0.015

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/2/2023 12:12 PM
 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				
10/17/2022			<0.015	<0.015		
10/18/2022					0.0016 (J)	0.05
10/19/2022	<0.015	<0.015				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/2/2023 12:12 PM
 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)
10/18/2022	0.00072 (J)		0.18			
10/19/2022		0.0043 (J)		0.039	0.0014 (J)	0.0019 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/2/2023 12:12 PM
 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				
10/18/2022		<0.015	0.039	0.0012 (J)	<0.015
10/19/2022	0.44				

Time Series

Constituent: pH (SU) Analysis Run 6/2/2023 12:12 PM

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
10/17/2022			6.19	6.12		
10/18/2022	6.98	8.95				
10/19/2022					6.08	6.07

Time Series

Constituent: pH (SU) Analysis Run 6/2/2023 12:12 PM

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				
10/17/2022			6.27	5.87		
10/18/2022					7.56	6.61
10/19/2022	6.58	6.64				

Time Series

Constituent: pH (SU) Analysis Run 6/2/2023 12:12 PM

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
10/18/2022	6.97		6.93			
10/19/2022		6.32		6.38	6.94	7.2

Time Series

Constituent: pH (SU) Analysis Run 6/2/2023 12:12 PM

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				
10/18/2022		6.43	6.67	6.7	6.32
10/19/2022	6.1				

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/2/2023 12:12 PM
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
10/17/2022			<0.005	<0.005		
10/18/2022	<0.005	<0.005				
10/19/2022					<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/2/2023 12:12 PM
 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				
10/17/2022			<0.005	<0.005		
10/18/2022					<0.005	<0.005
10/19/2022	<0.005	<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/2/2023 12:12 PM
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
10/18/2022	<0.005		<0.005			
10/19/2022		<0.005		<0.005	<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/2/2023 12:12 PM

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				
10/18/2022		<0.005	<0.005	<0.005	<0.005
10/19/2022	<0.005				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/2/2023 12:12 PM
 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			<1	1.1		
10/11/2021			<1	<1		
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
10/17/2022			<1	<1		
10/18/2022	<2.5	3.7				
10/19/2022					810	830

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/2/2023 12:12 PM
 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				
10/17/2022			1.2	5.6		
10/18/2022					3	850
10/19/2022	76	57				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/2/2023 12:12 PM
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
10/18/2022	5.3		700			
10/19/2022		230		810	12	13

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/2/2023 12:12 PM
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				
10/18/2022		25	560	7.6	280
10/19/2022	800				

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/2/2023 12:12 PM
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
10/17/2022			<0.001	<0.001		
10/18/2022	<0.001	<0.001				
10/19/2022					<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/2/2023 12:12 PM

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				
10/17/2022			<0.001	<0.001		
10/18/2022					<0.001	<0.001
10/19/2022	<0.001	<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/2/2023 12:12 PM

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
10/18/2022	<0.001		<0.001			
10/19/2022		<0.001		<0.001	<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/2/2023 12:12 PM

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				
10/18/2022		<0.001	<0.001	<0.001	<0.001
10/19/2022	<0.001				

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/2/2023 12:12 PM

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
10/17/2022			86	120		
10/18/2022	1900	130				
10/19/2022					3600	5900

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/2/2023 12:12 PM

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				
10/17/2022			4900	6600		
10/18/2022					150	14000
10/19/2022	5700	5700				

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/2/2023 12:12 PM

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
10/18/2022	170		15000			
10/19/2022		5900		13000	240	160

Time Series

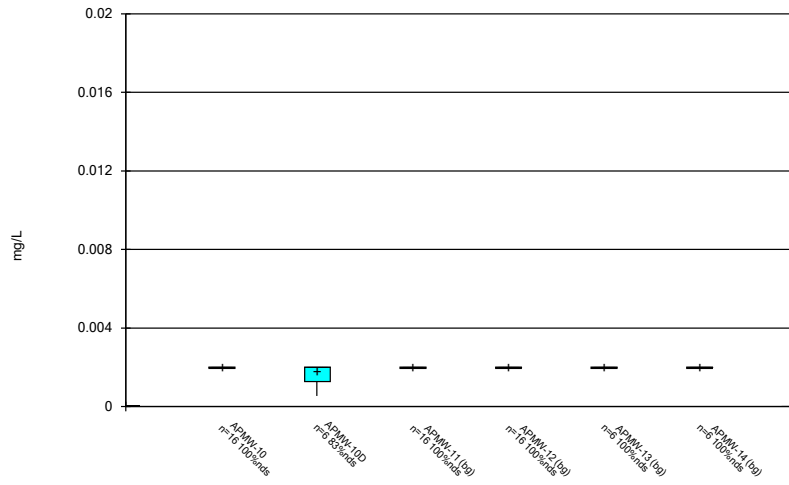
Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/2/2023 12:12 PM

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				
10/18/2022		7900	7000	140	5900
10/19/2022	7000				

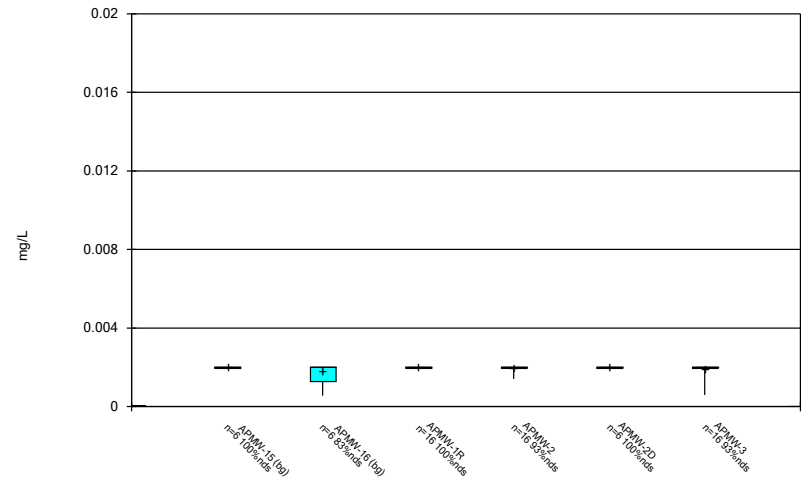
FIGURE B.

Box & Whiskers Plot



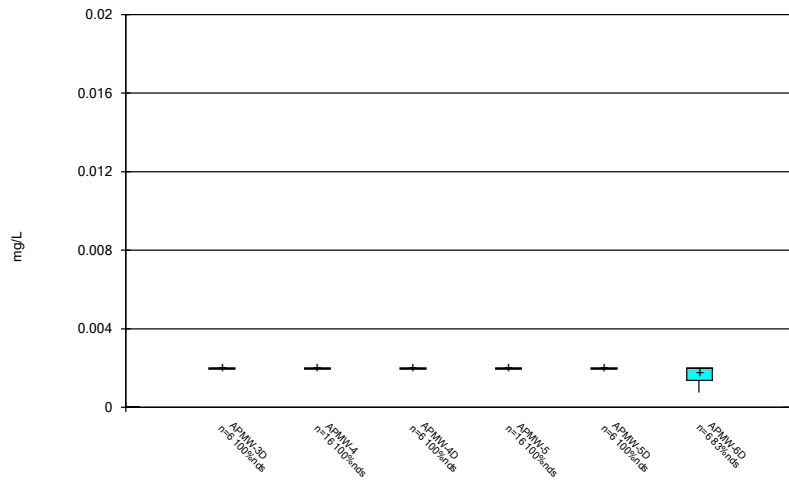
Constituent: Antimony Analysis Run 6/2/2023 12:12 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



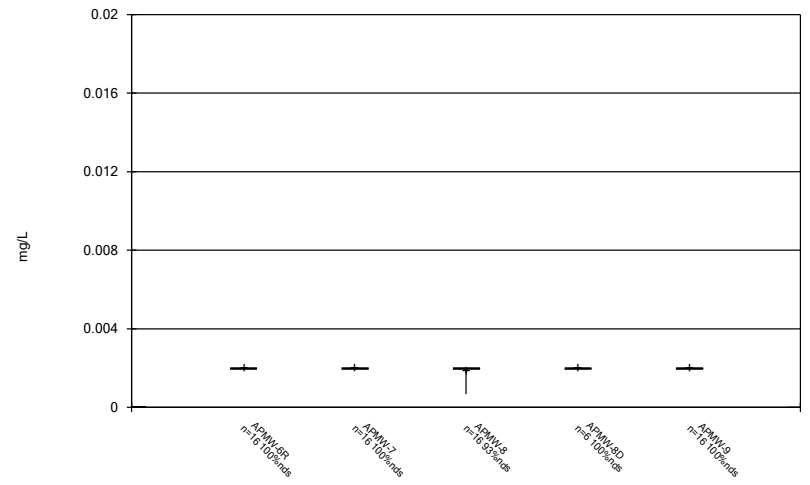
Constituent: Antimony Analysis Run 6/2/2023 12:12 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



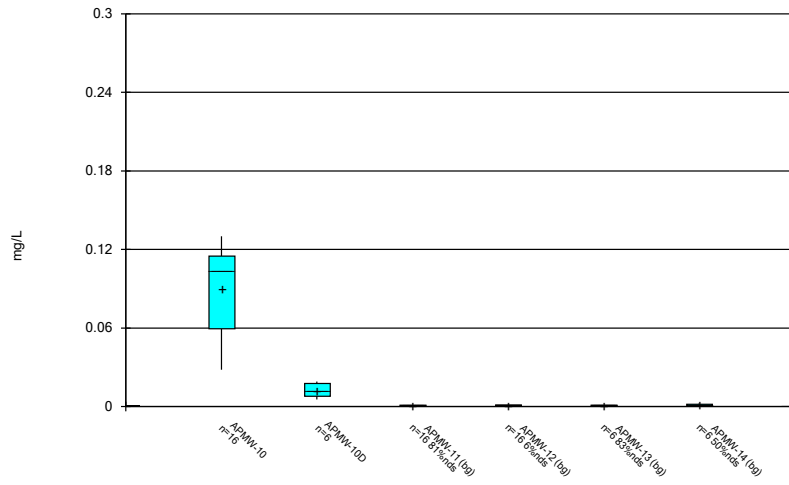
Constituent: Antimony Analysis Run 6/2/2023 12:12 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



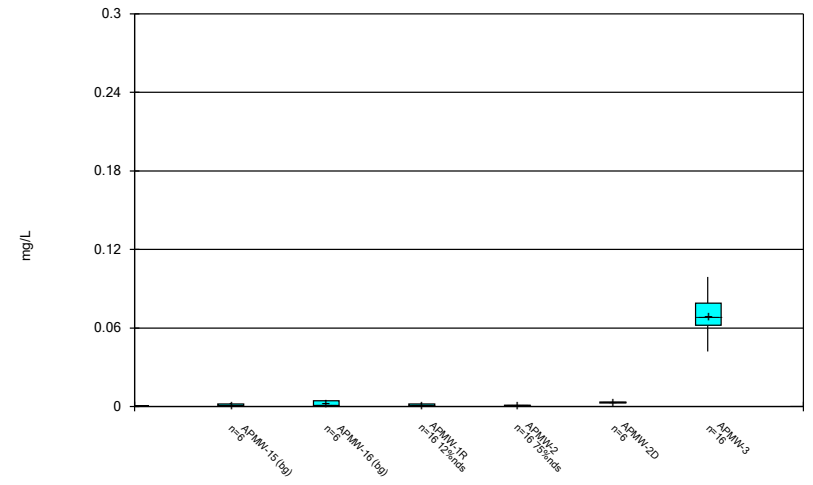
Constituent: Antimony Analysis Run 6/2/2023 12:12 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



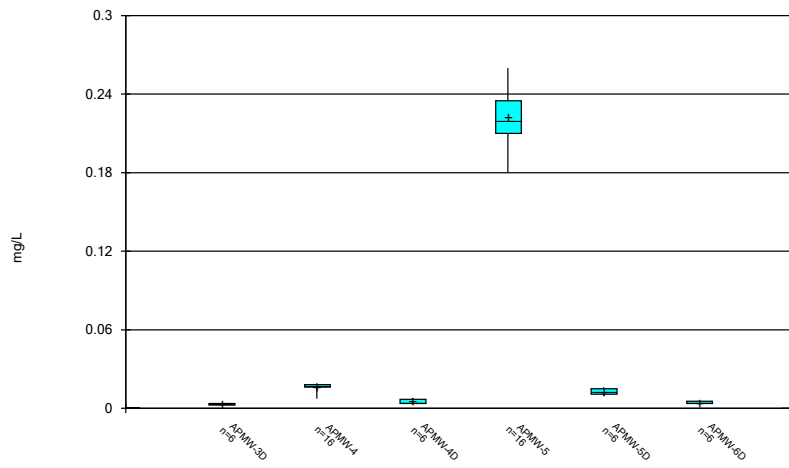
Constituent: Arsenic Analysis Run 6/2/2023 12:12 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



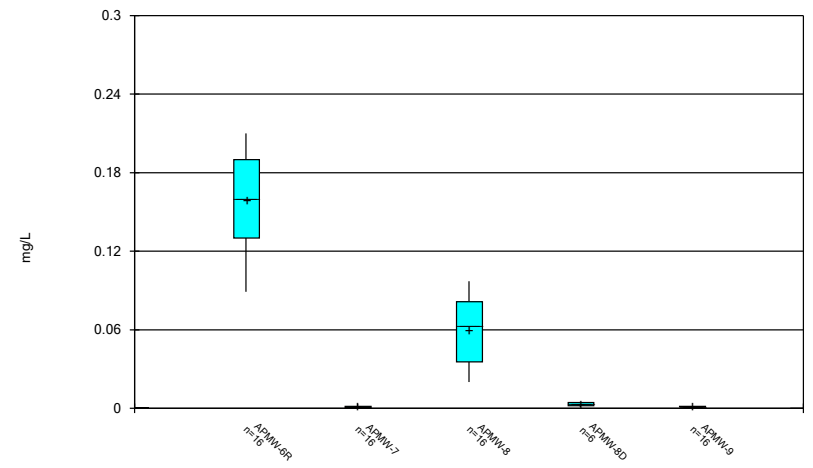
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



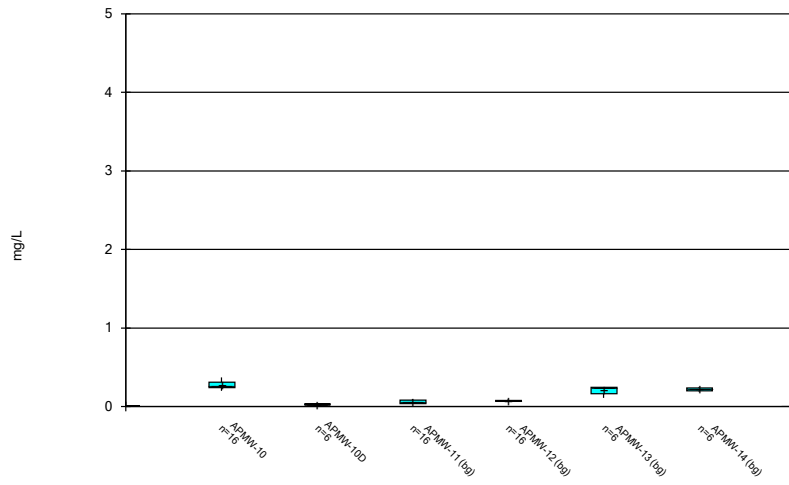
Constituent: Arsenic Analysis Run 6/2/2023 12:12 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



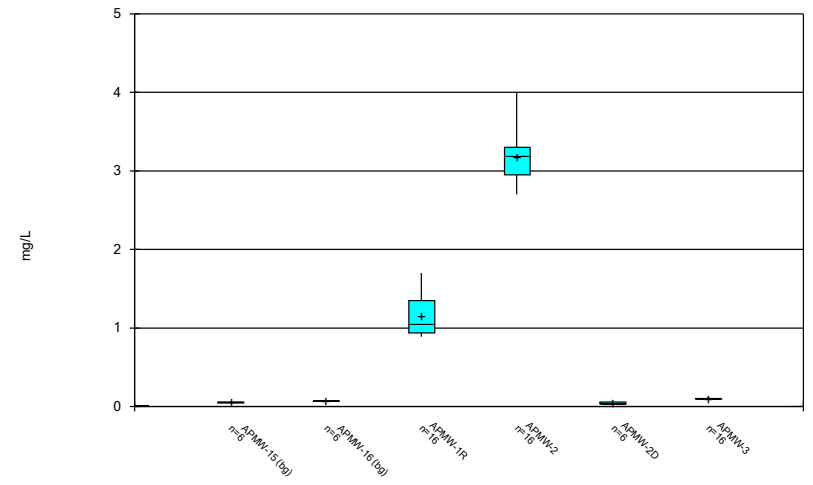
Constituent: Arsenic Analysis Run 6/2/2023 12:12 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



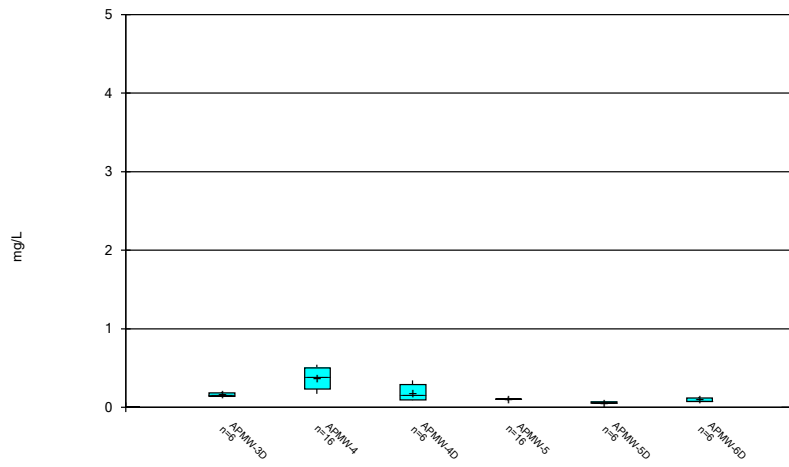
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



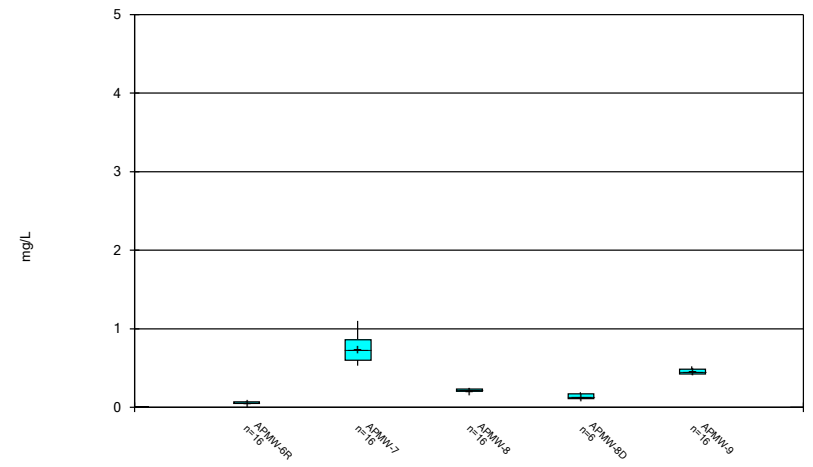
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



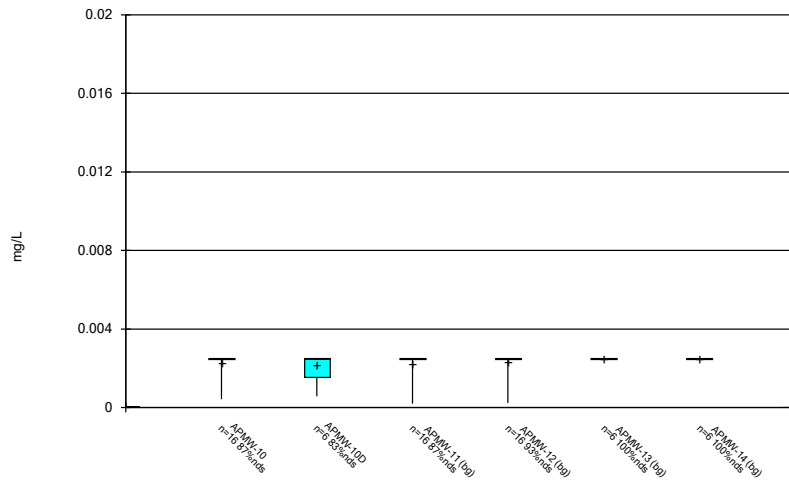
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



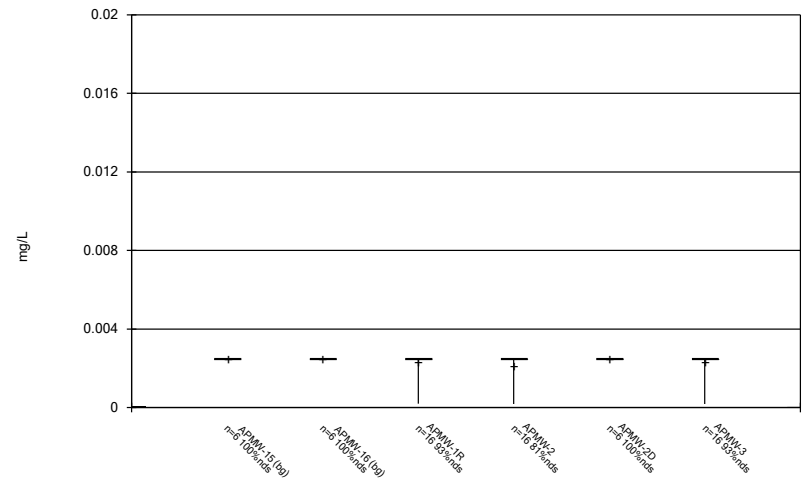
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



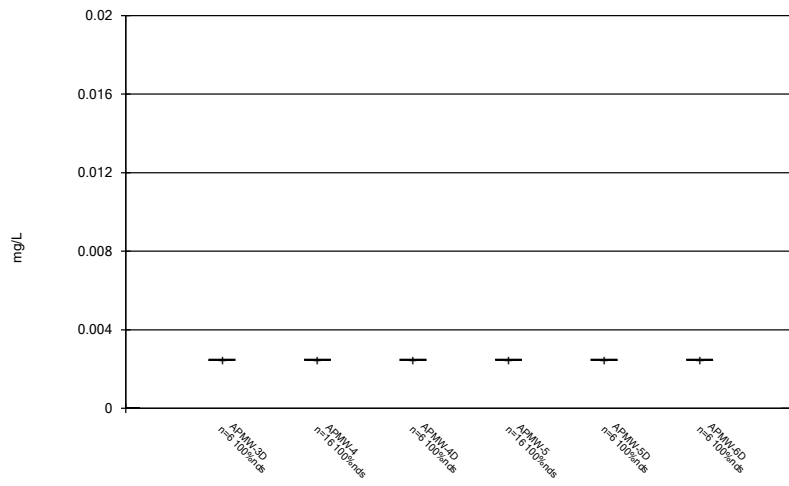
Constituent: Beryllium Analysis Run 6/2/2023 12:12 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



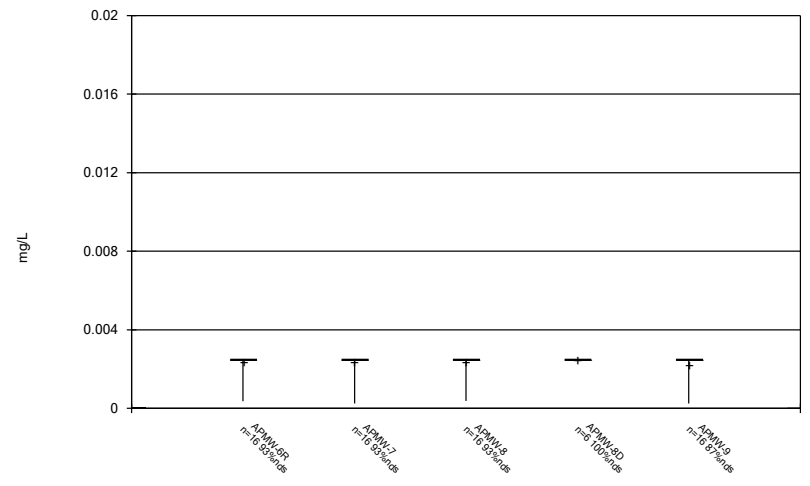
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



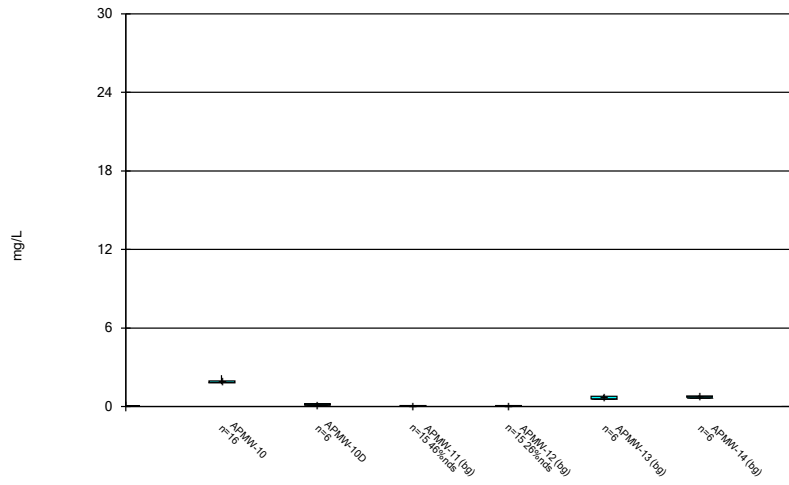
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



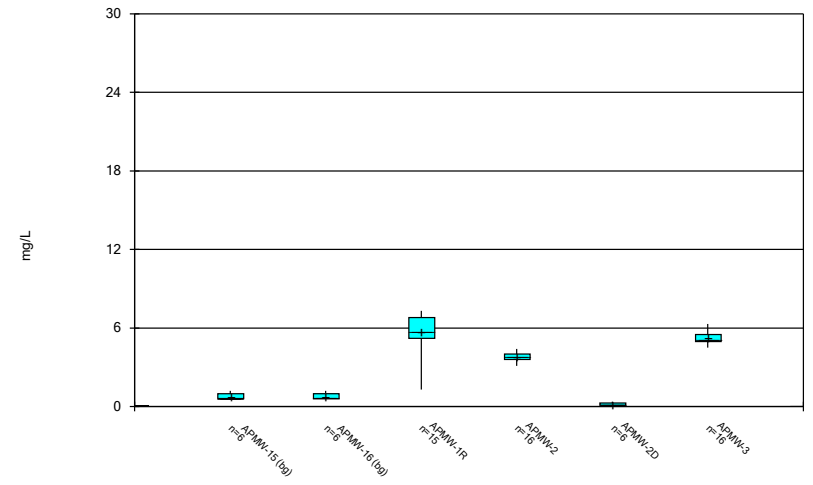
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



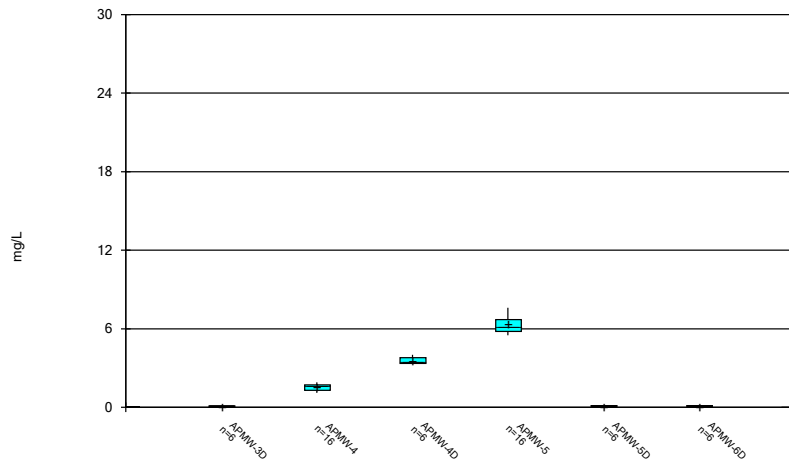
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



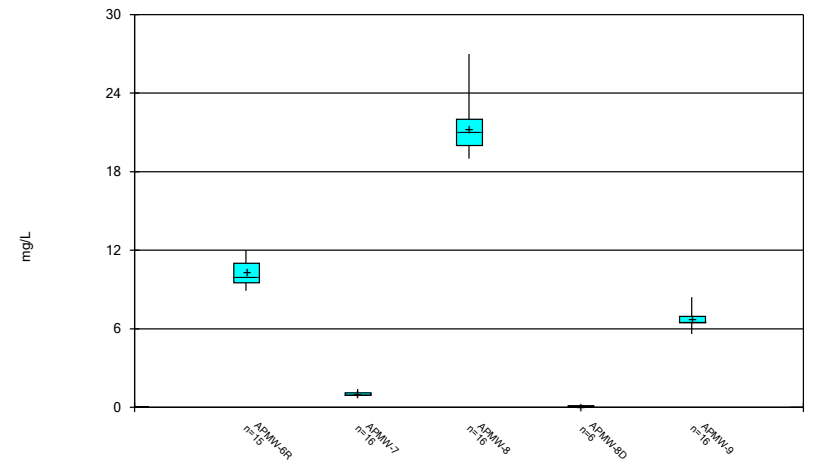
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



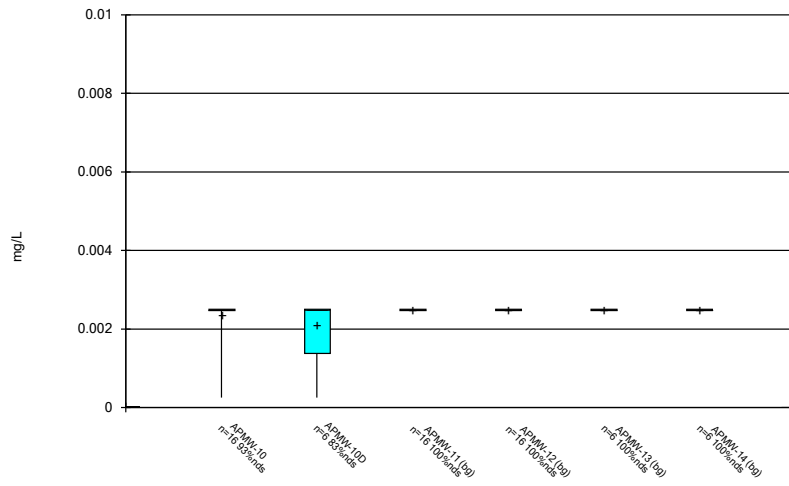
Constituent: Boron Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



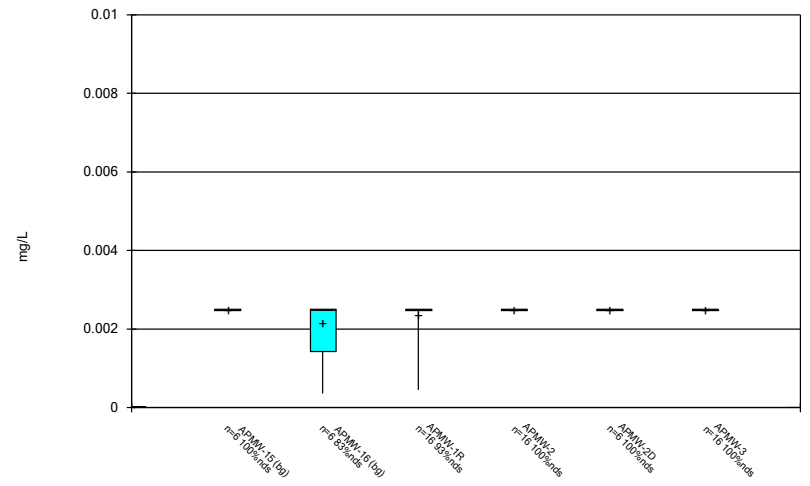
Constituent: Boron Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



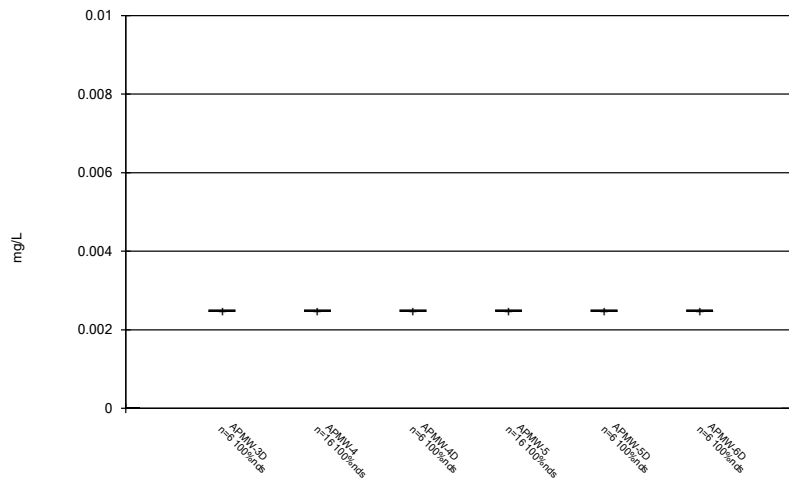
Constituent: Cadmium Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



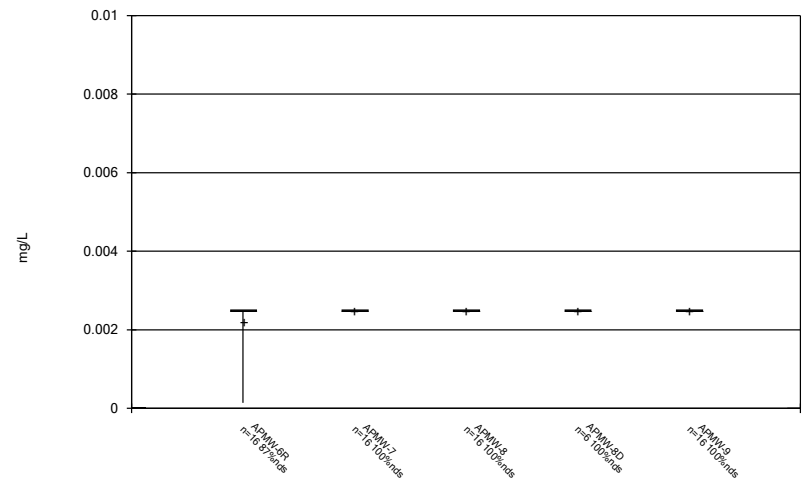
Constituent: Cadmium Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



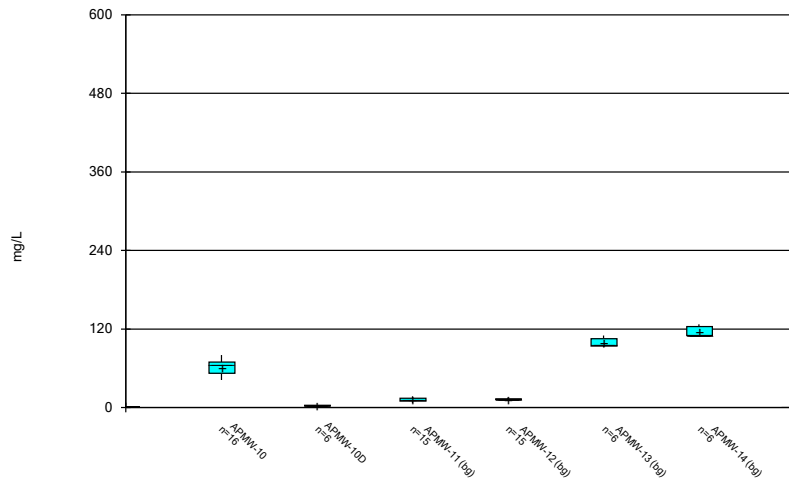
Constituent: Cadmium Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



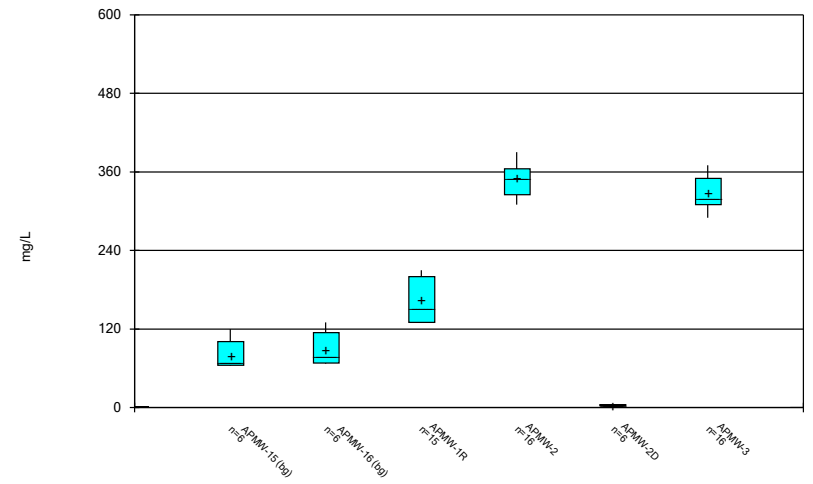
Constituent: Cadmium Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



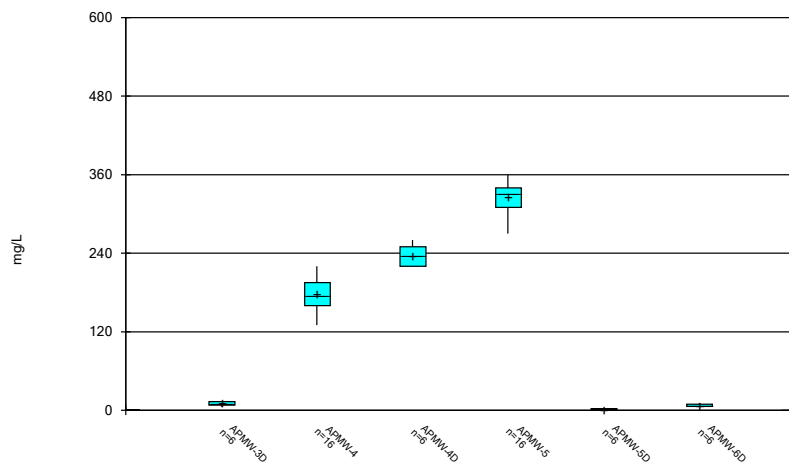
Constituent: Calcium Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



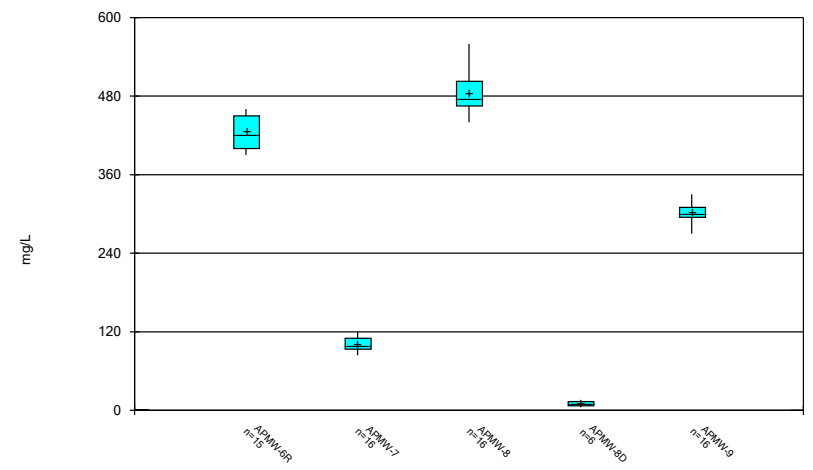
Constituent: Calcium Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



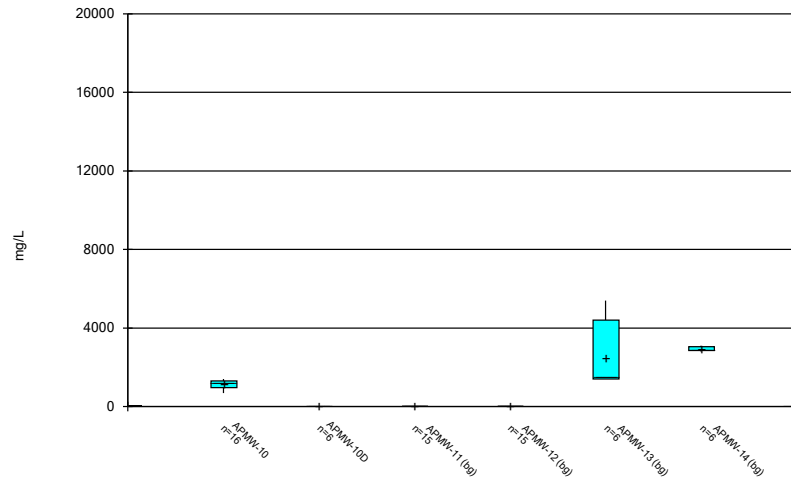
Constituent: Calcium Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



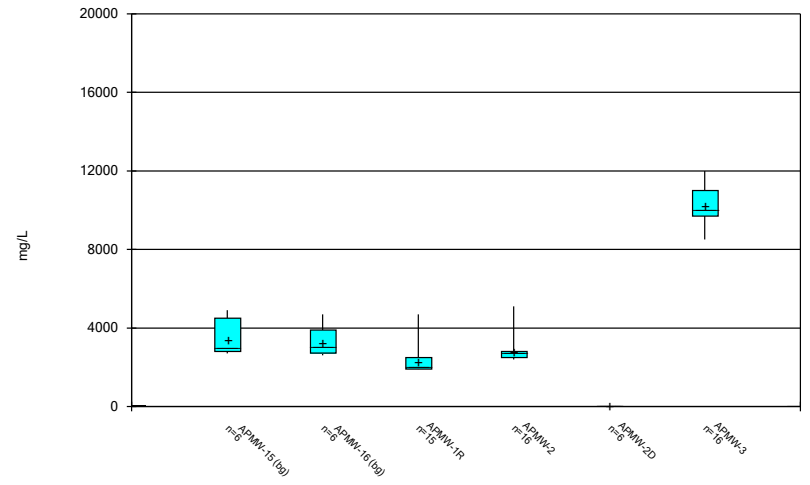
Constituent: Calcium Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



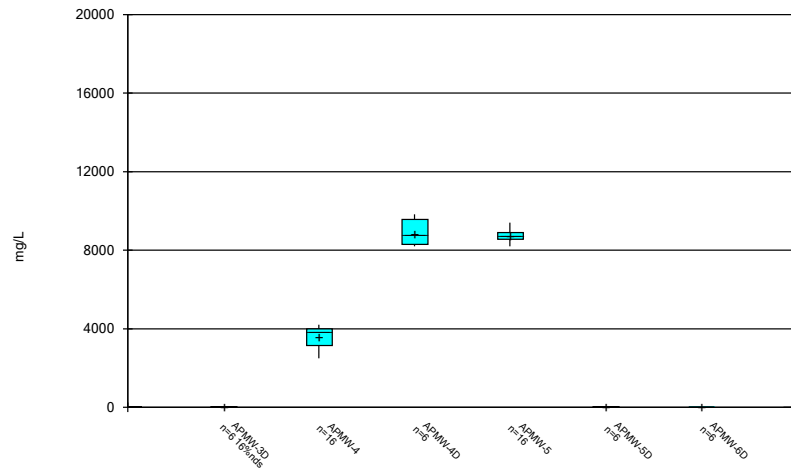
Constituent: Chloride Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



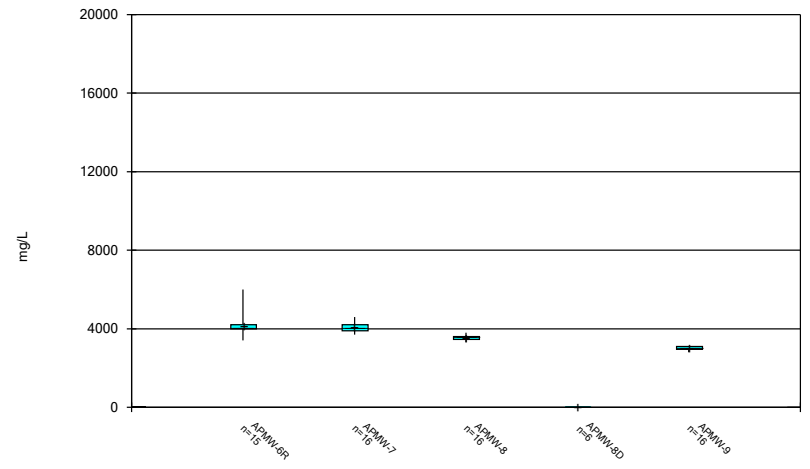
Constituent: Chloride Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



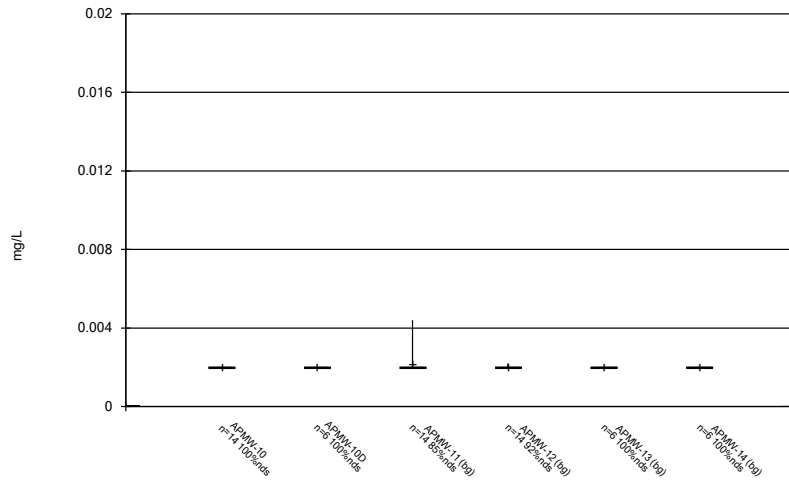
Constituent: Chloride Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



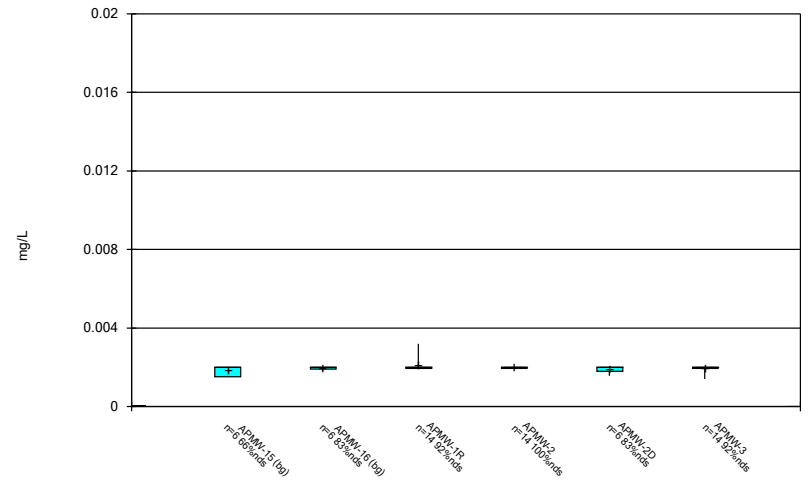
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



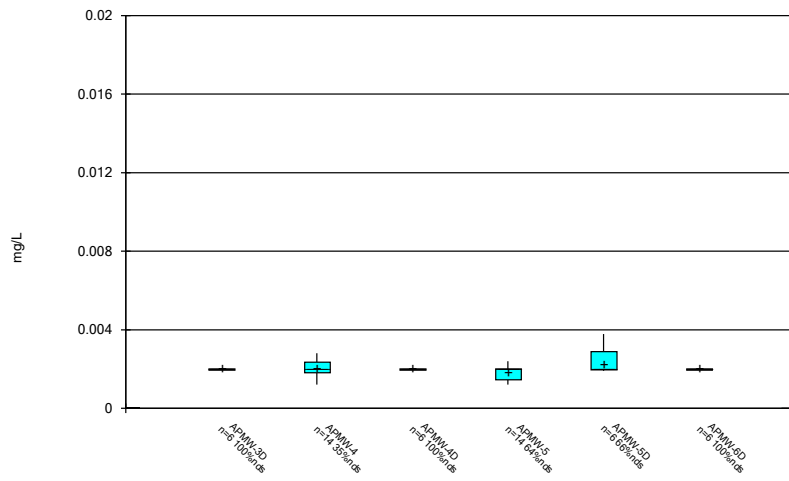
Constituent: Chromium Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



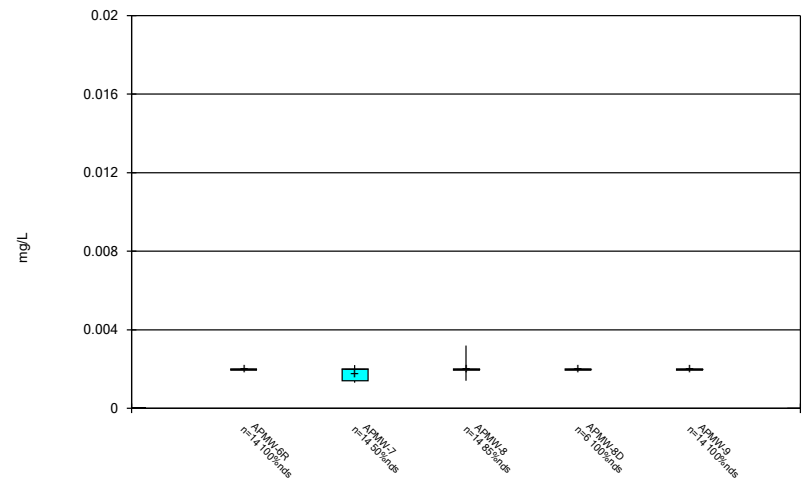
Constituent: Chromium Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



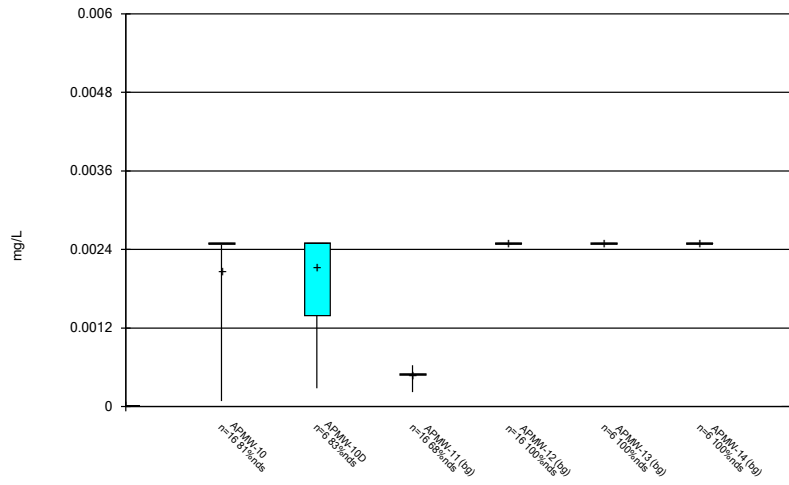
Constituent: Chromium Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



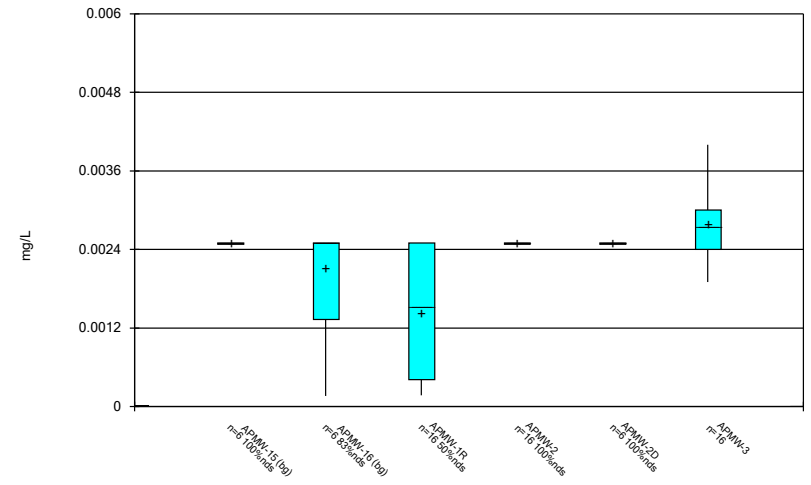
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



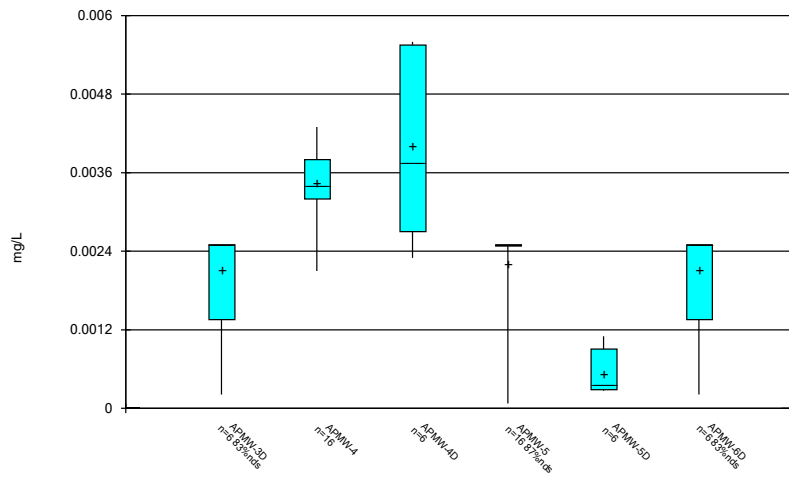
Constituent: Cobalt Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



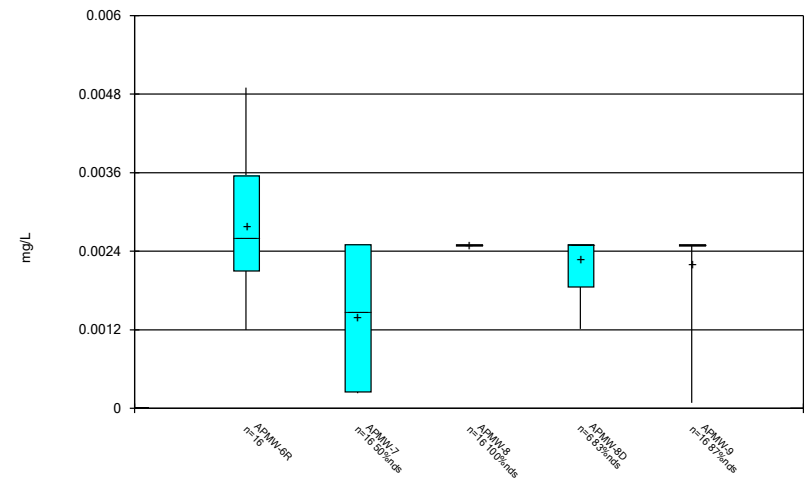
Constituent: Cobalt Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



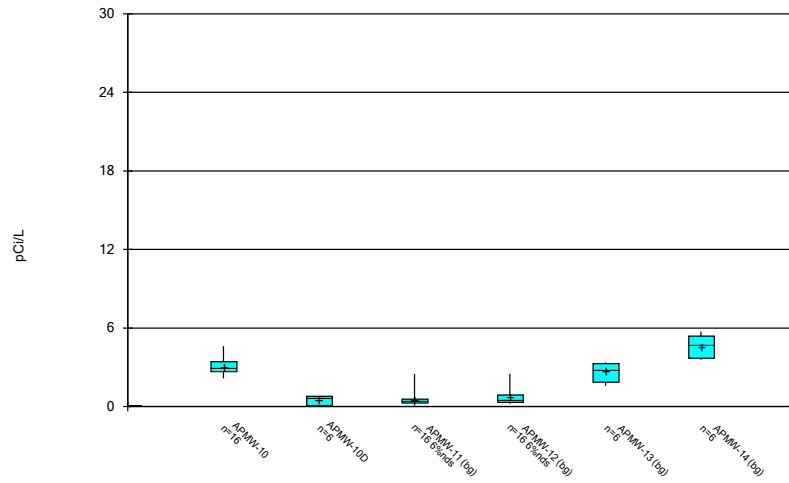
Constituent: Cobalt Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



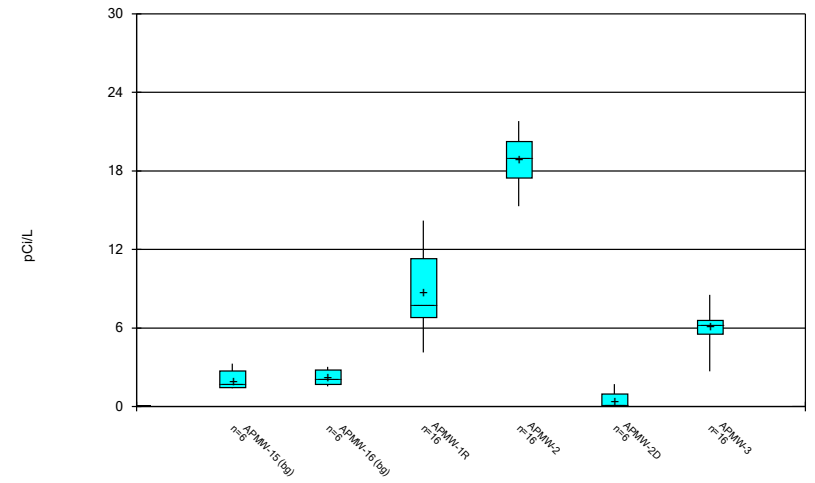
Constituent: Cobalt Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



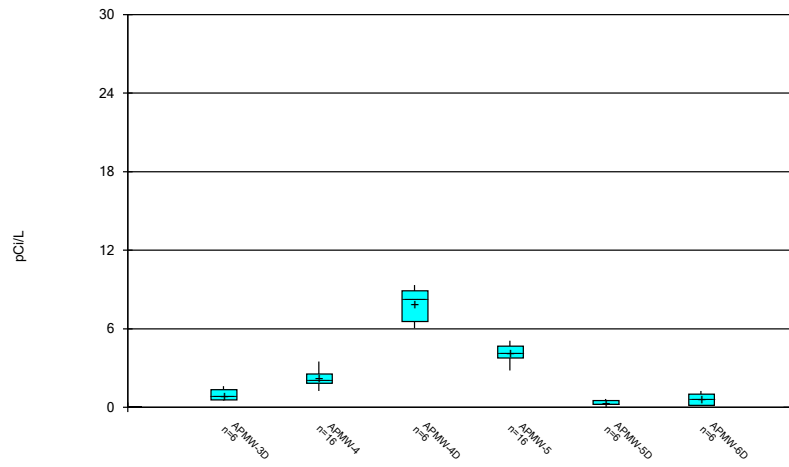
Constituent: Combined Radium 226 + 228 Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



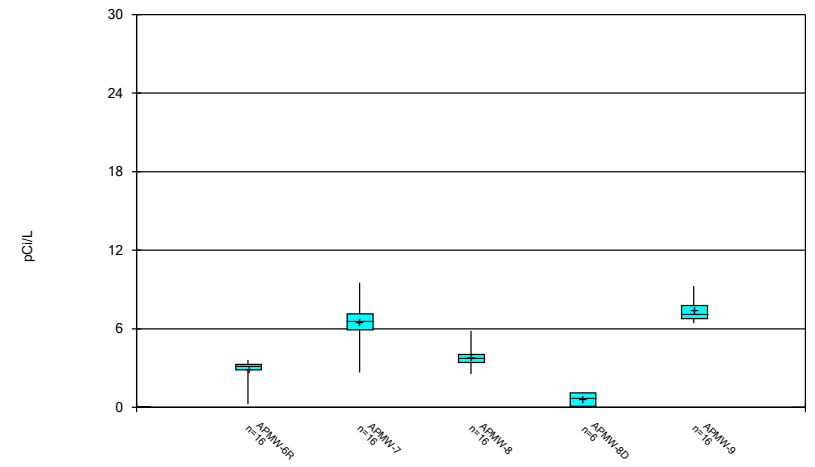
Constituent: Combined Radium 226 + 228 Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



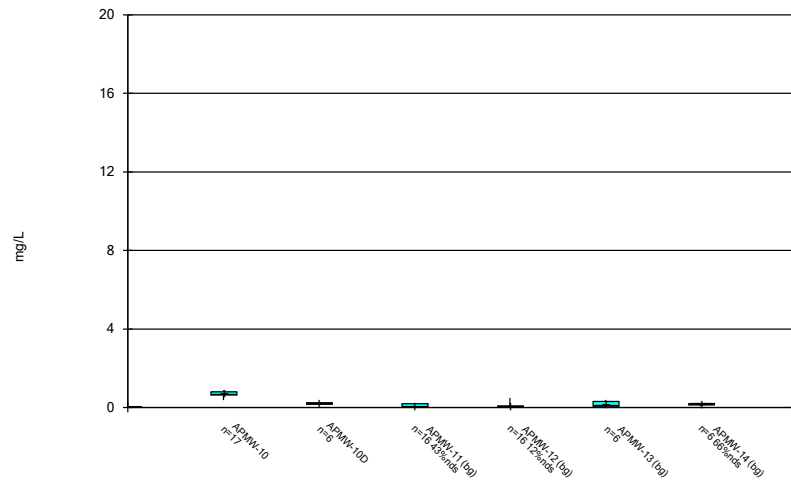
Constituent: Combined Radium 226 + 228 Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



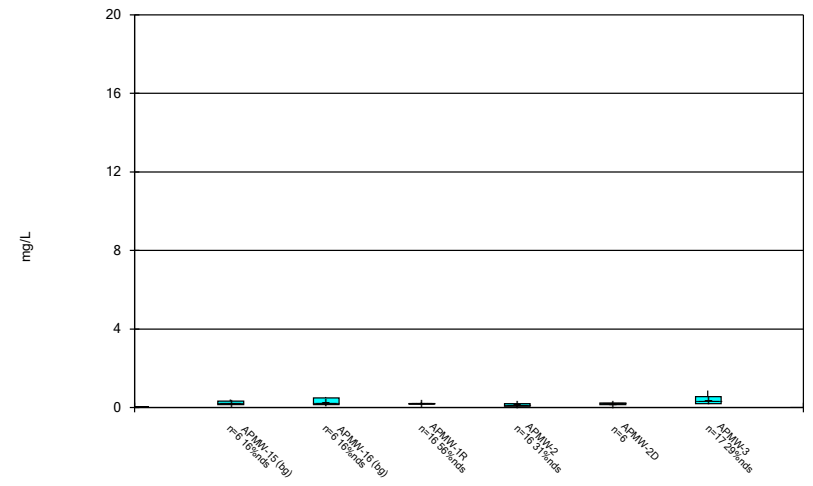
Constituent: Combined Radium 226 + 228 Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



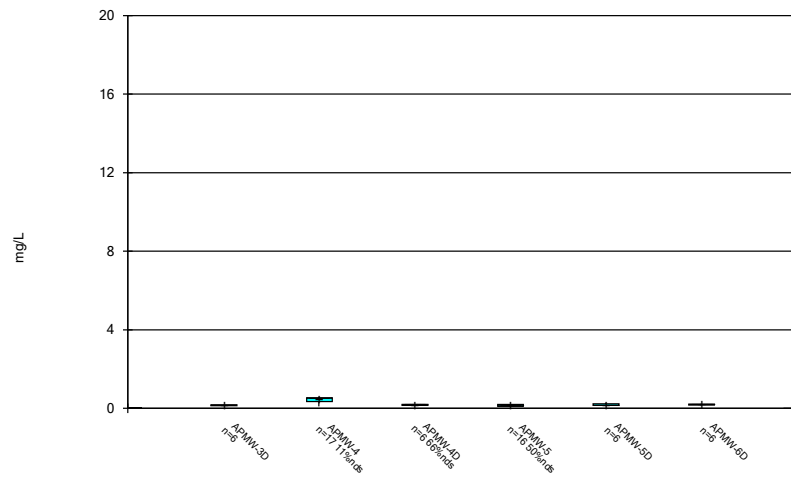
Constituent: Fluoride Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



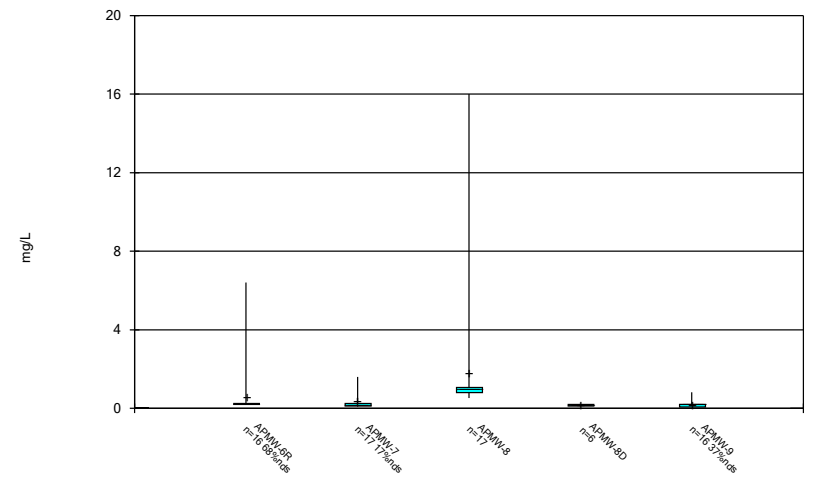
Constituent: Fluoride Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



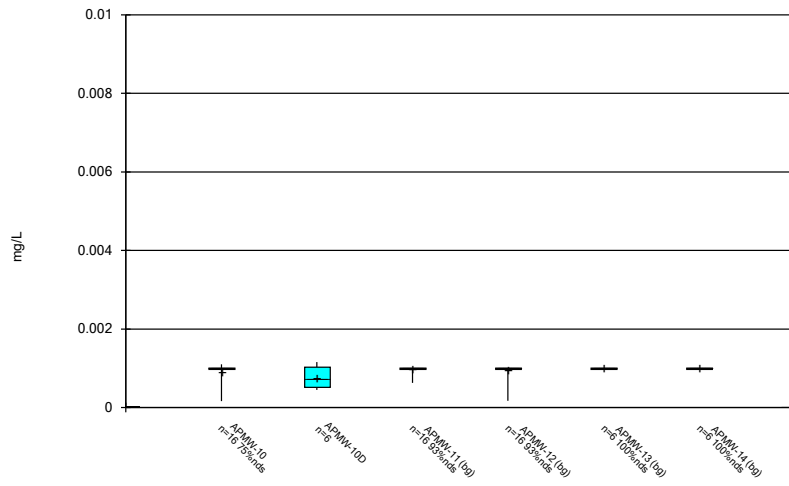
Constituent: Fluoride Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



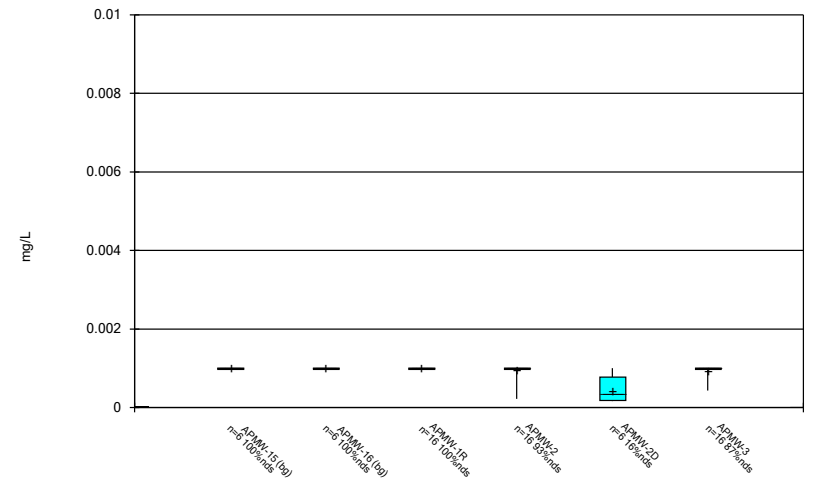
Constituent: Fluoride Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



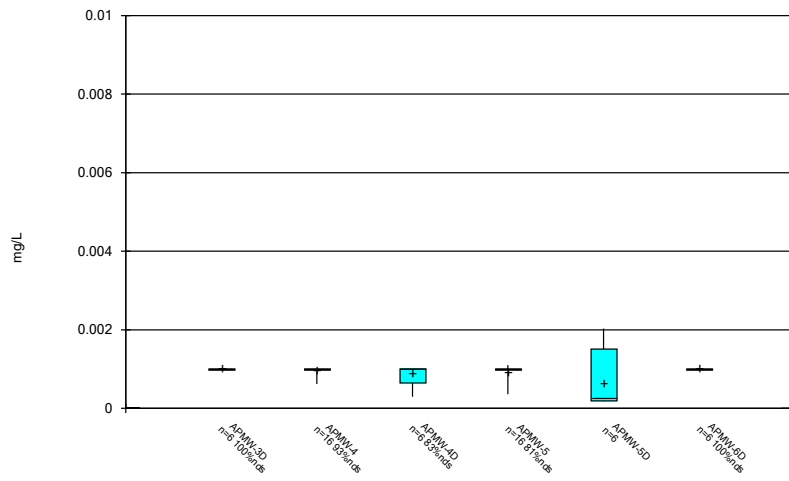
Constituent: Lead Analysis Run 6/2/2023 12:13 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



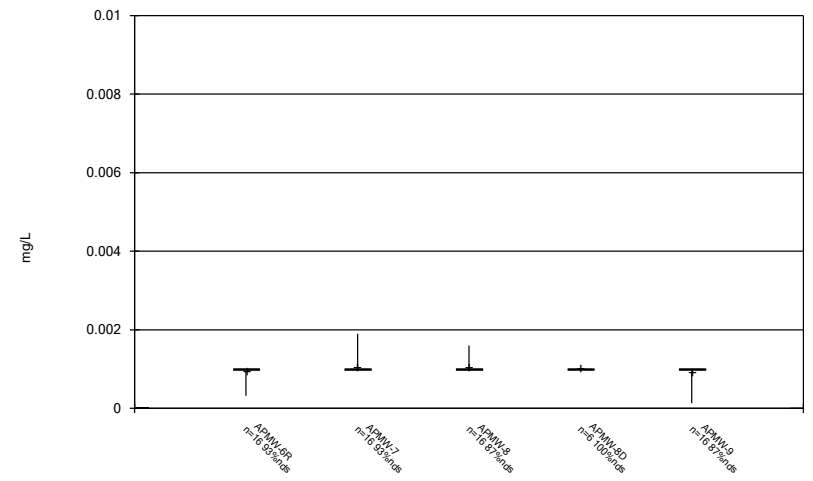
Constituent: Lead Analysis Run 6/2/2023 12:13 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



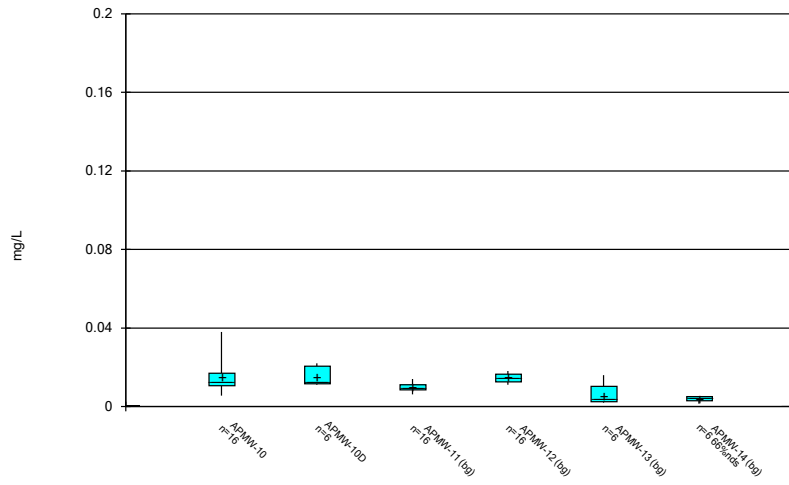
Constituent: Lead Analysis Run 6/2/2023 12:13 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



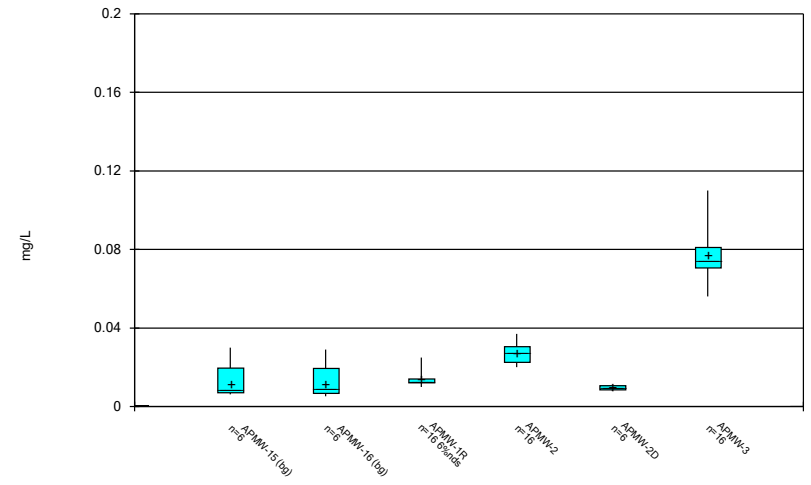
Constituent: Lead Analysis Run 6/2/2023 12:13 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



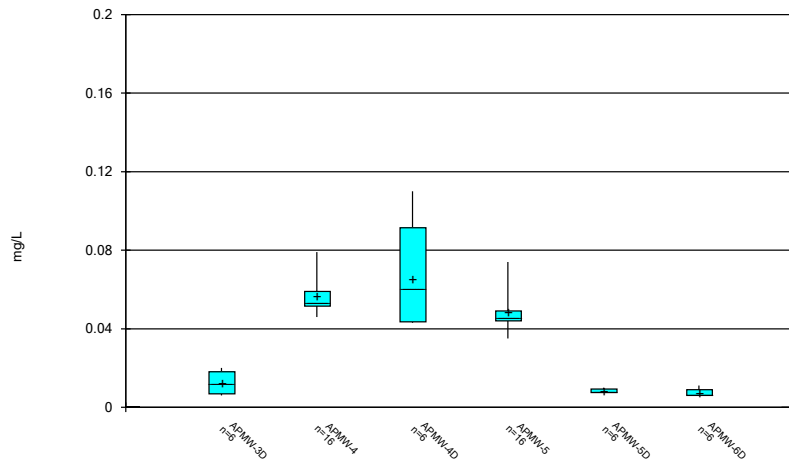
Constituent: Lithium Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



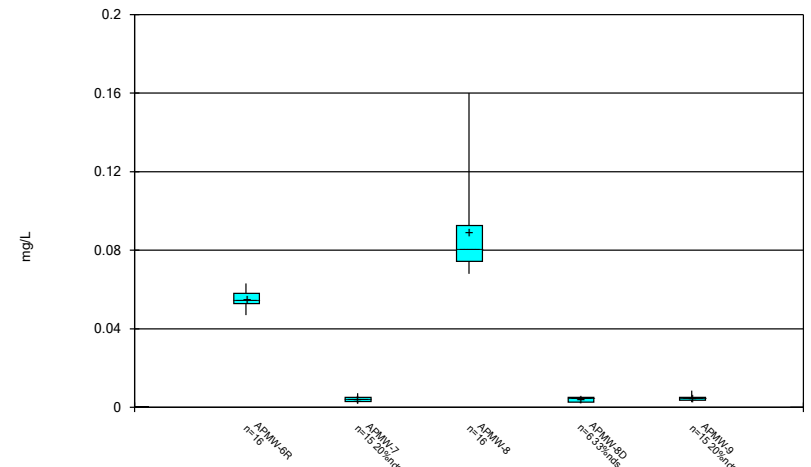
Constituent: Lithium Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



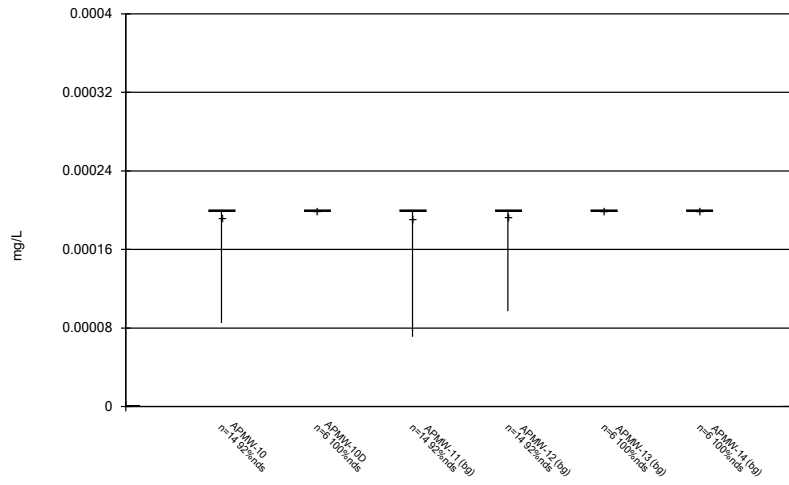
Constituent: Lithium Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



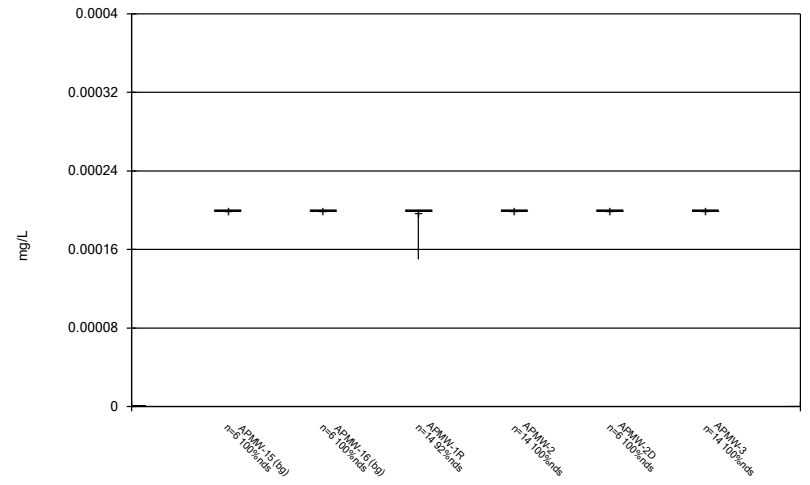
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



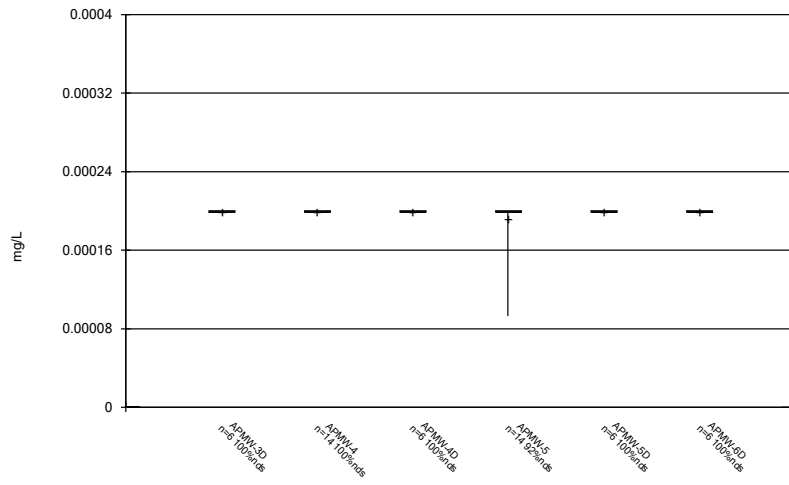
Constituent: Mercury Analysis Run 6/2/2023 12:13 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



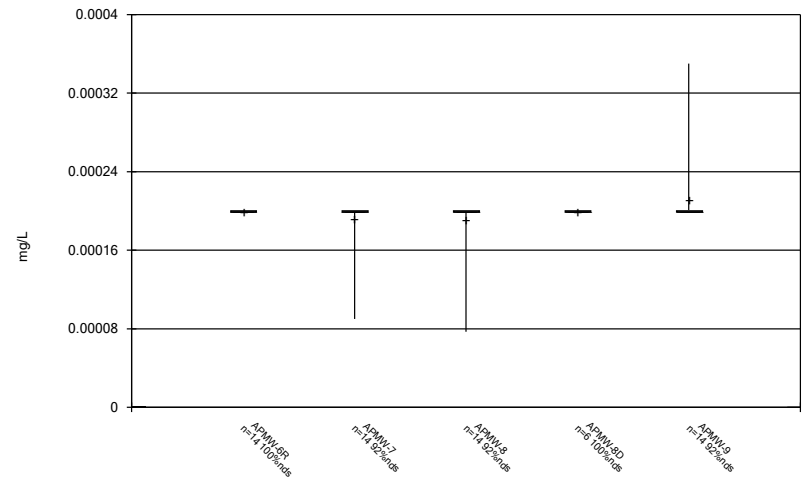
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



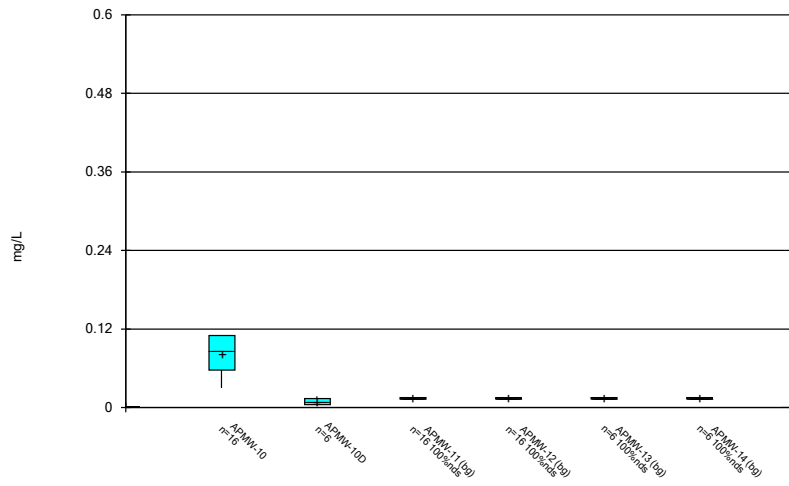
Constituent: Mercury Analysis Run 6/2/2023 12:13 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



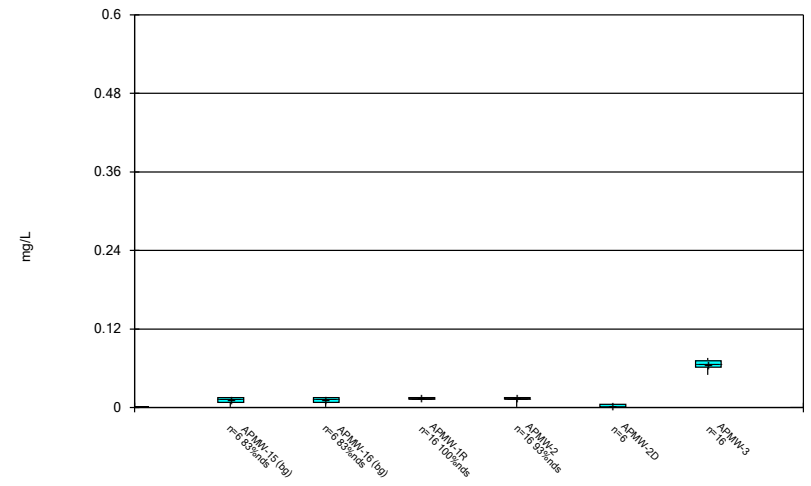
Constituent: Mercury Analysis Run 6/2/2023 12:13 PM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



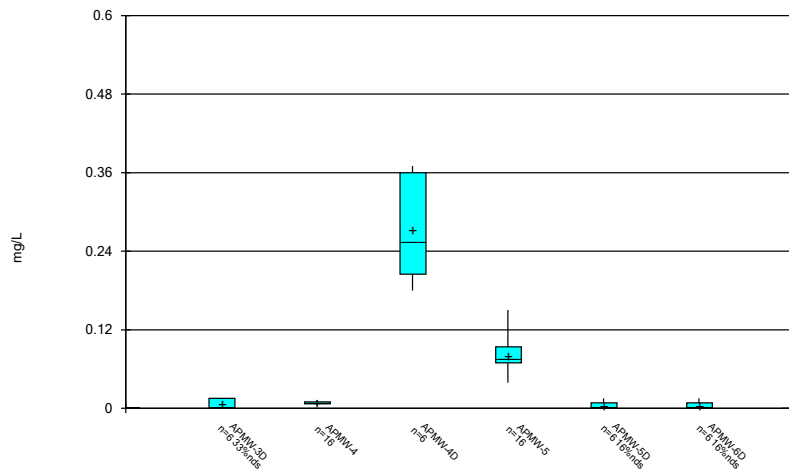
Constituent: Molybdenum Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



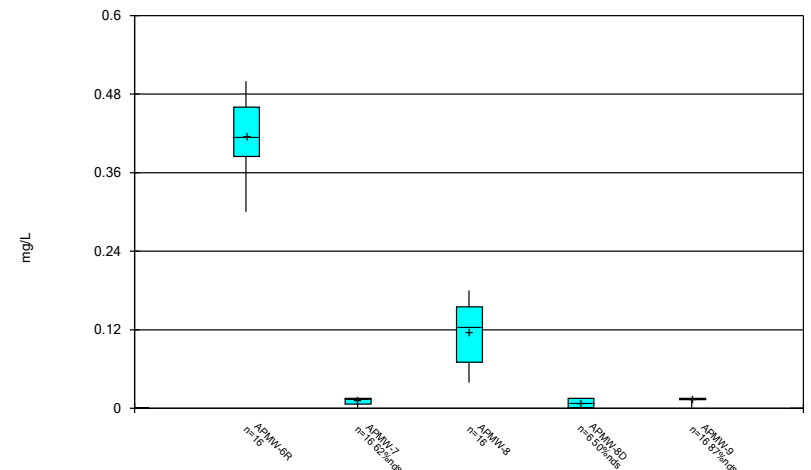
Constituent: Molybdenum Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



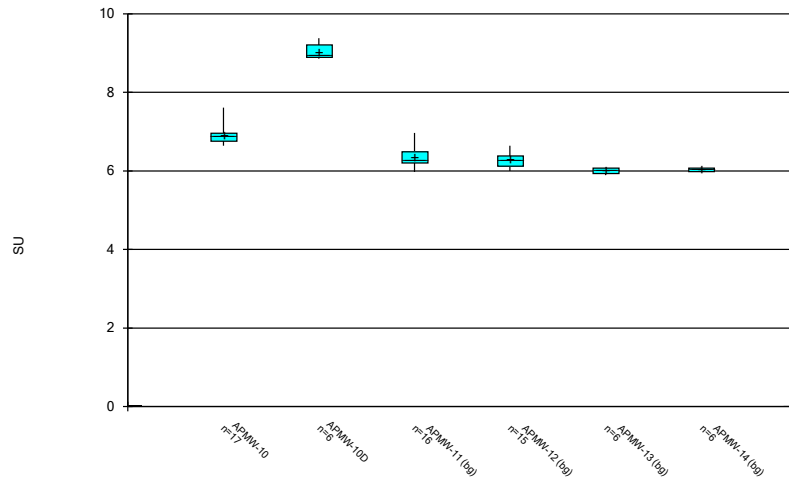
Constituent: Molybdenum Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



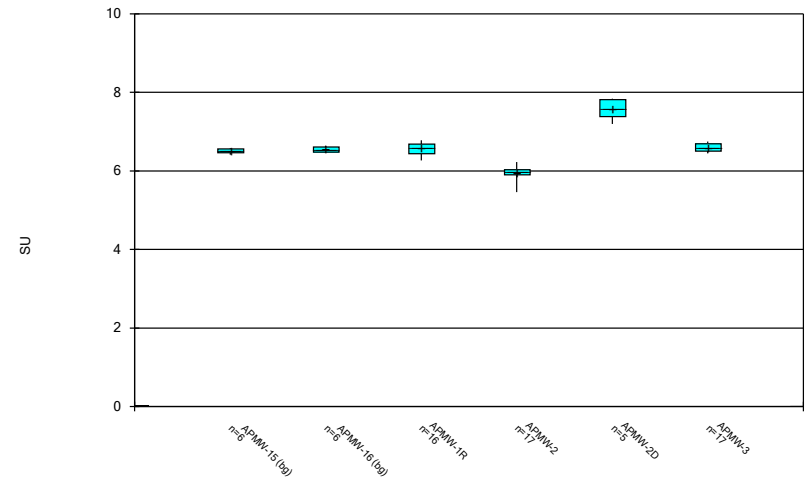
Constituent: Molybdenum Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



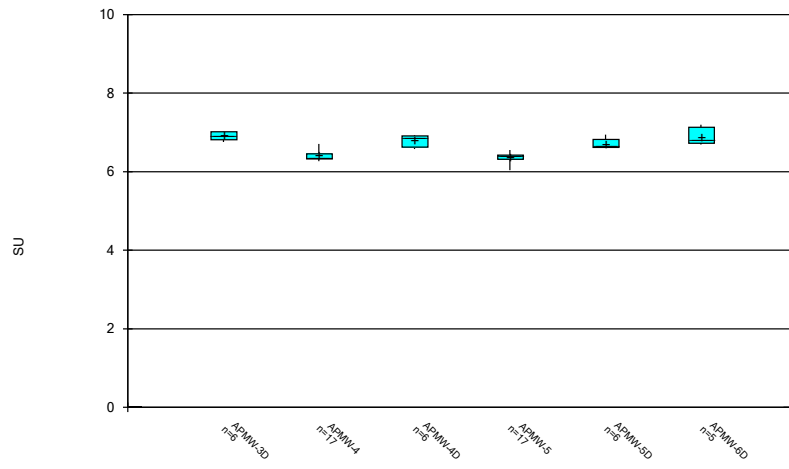
Constituent: pH Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



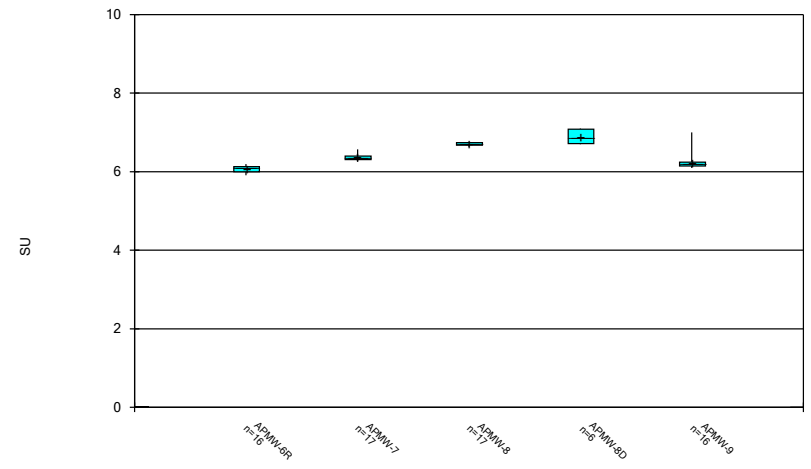
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



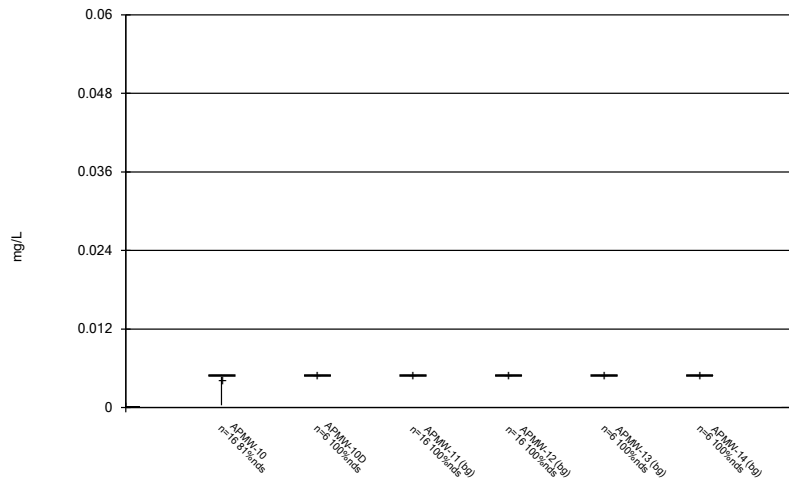
Constituent: pH Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



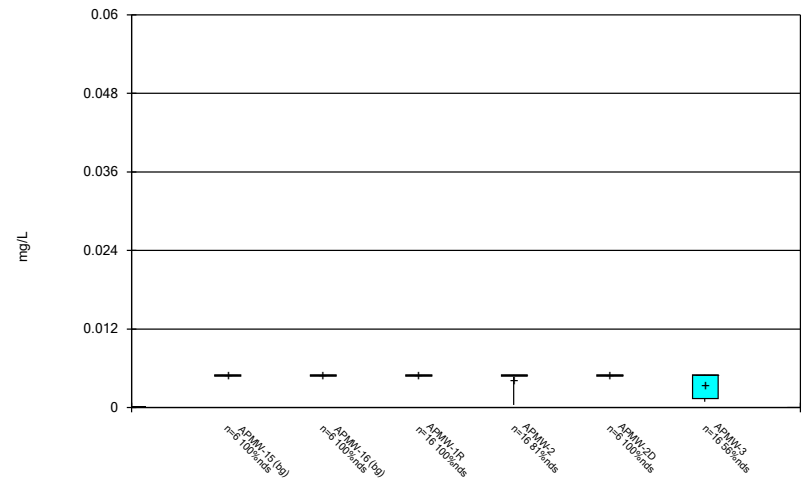
Constituent: pH Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



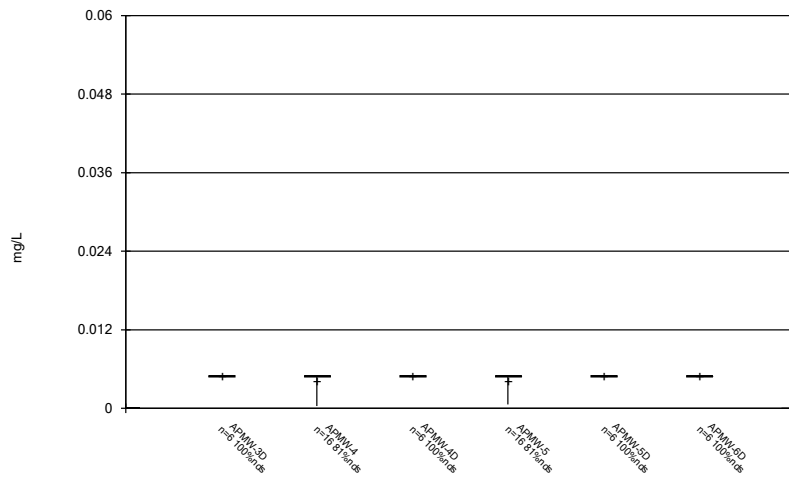
Constituent: Selenium Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



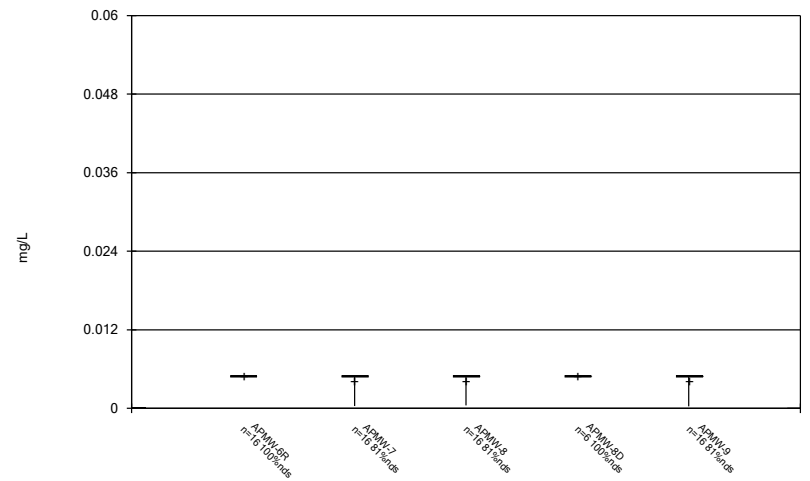
Constituent: Selenium Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



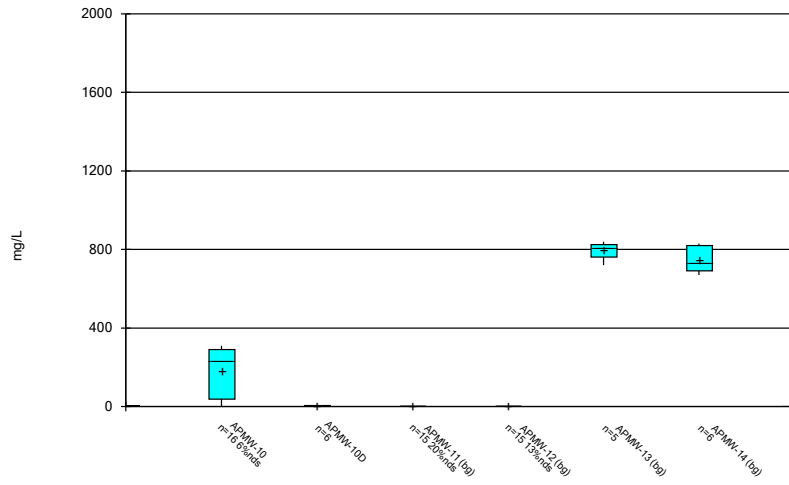
Constituent: Selenium Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



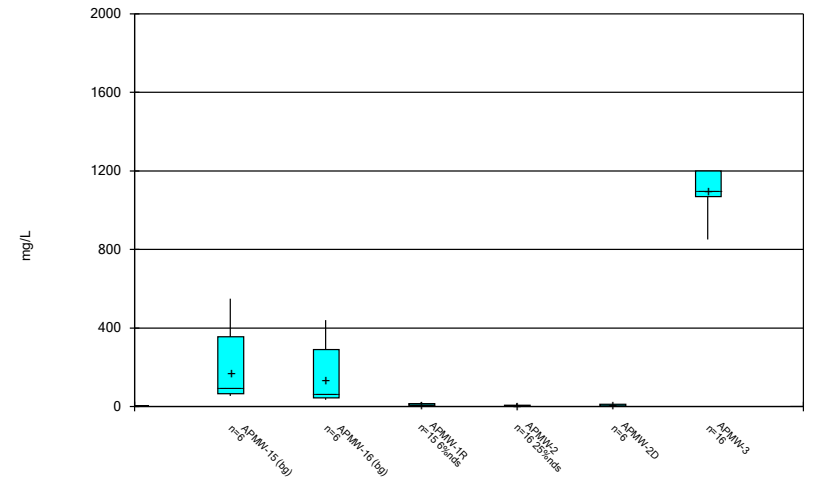
Constituent: Selenium Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



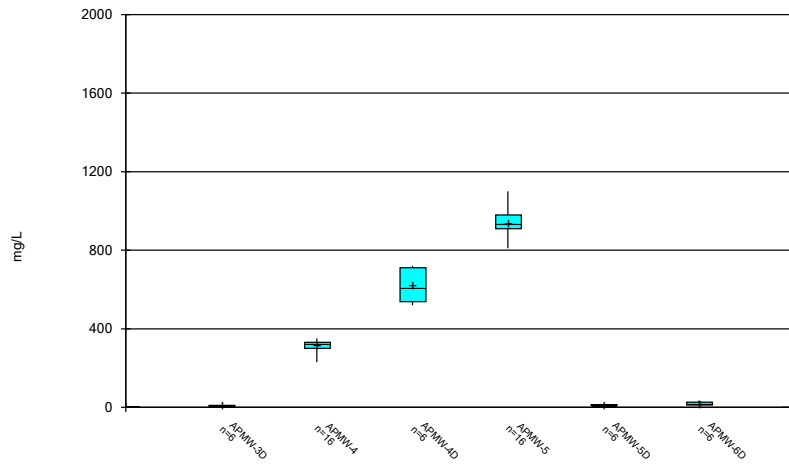
Constituent: Sulfate Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



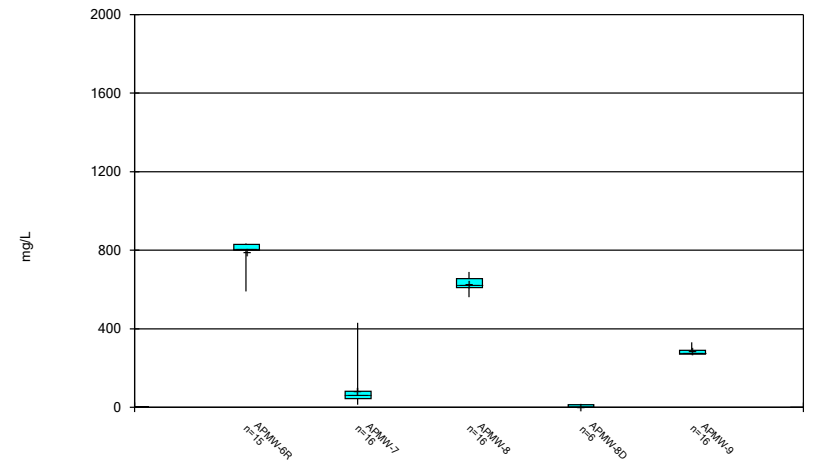
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



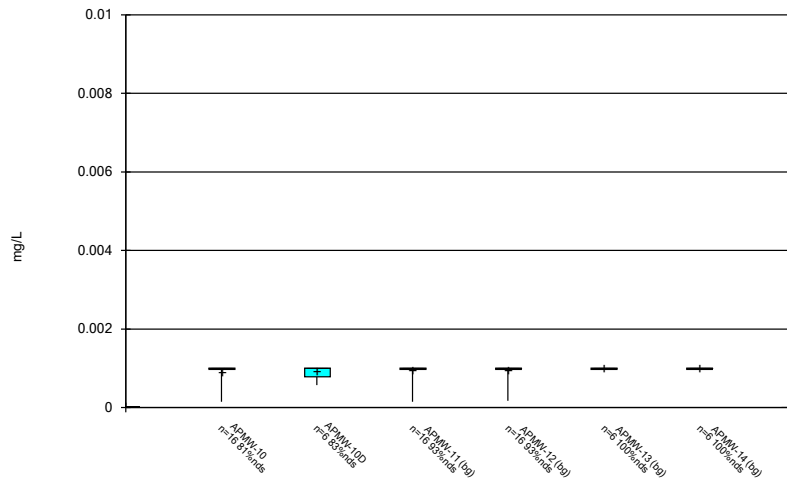
Constituent: Sulfate Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



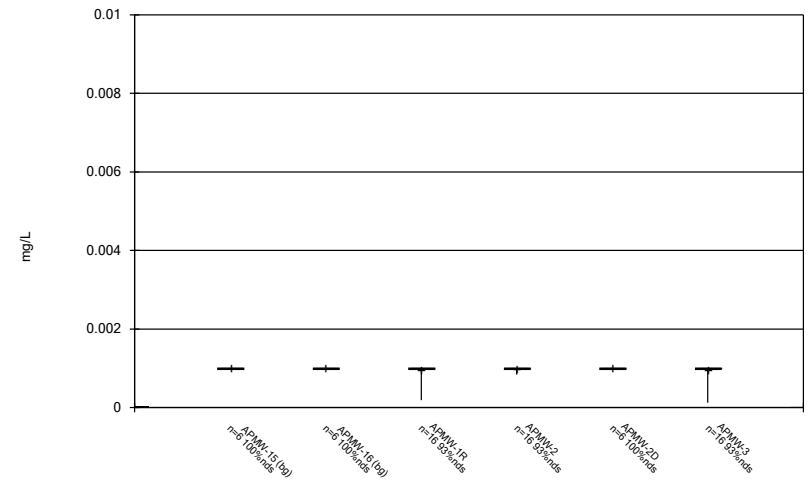
Constituent: Sulfate Analysis Run 6/2/2023 12:13 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



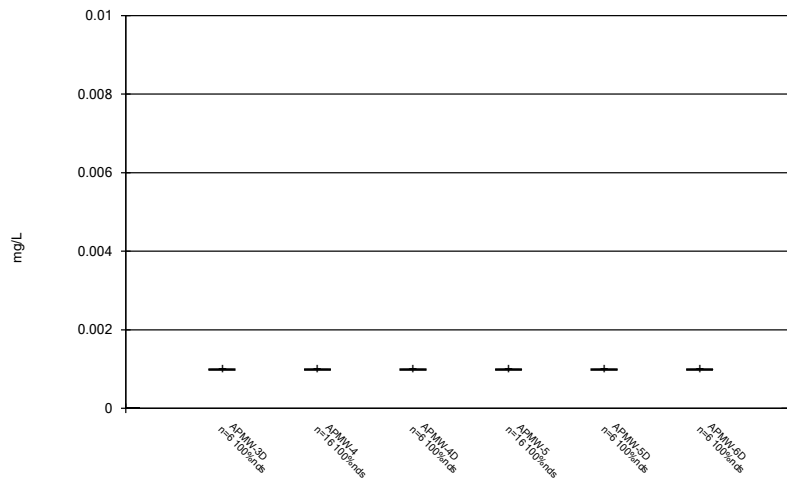
Constituent: Thallium Analysis Run 6/2/2023 12:14 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



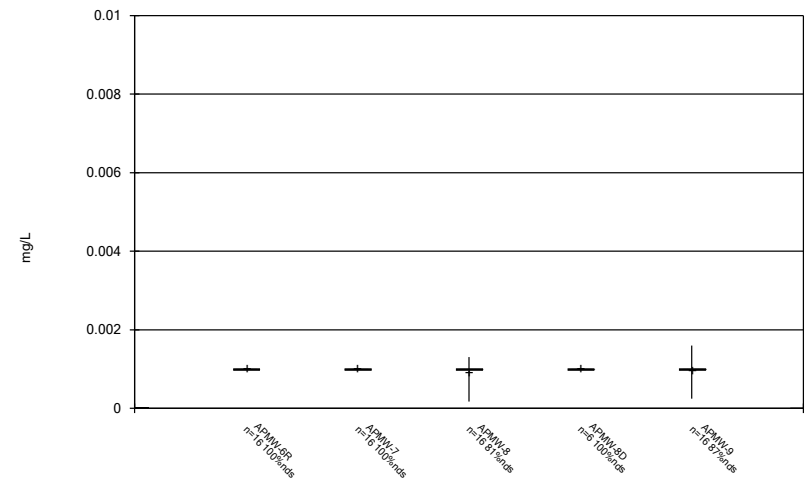
Constituent: Thallium Analysis Run 6/2/2023 12:14 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



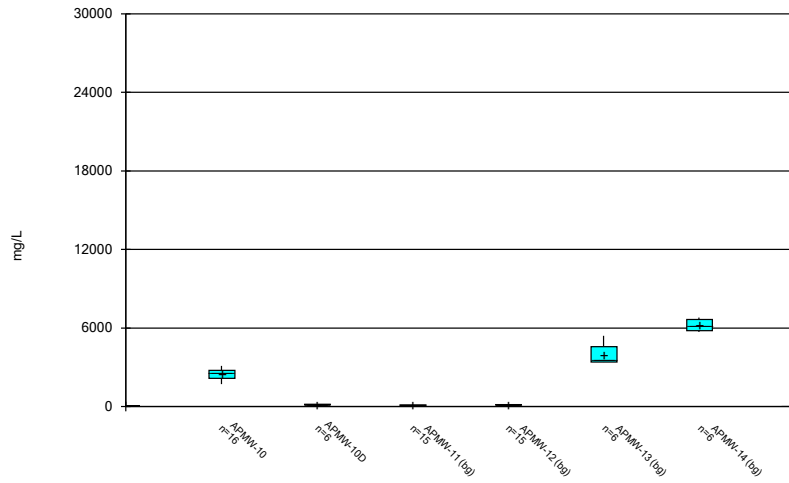
Constituent: Thallium Analysis Run 6/2/2023 12:14 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



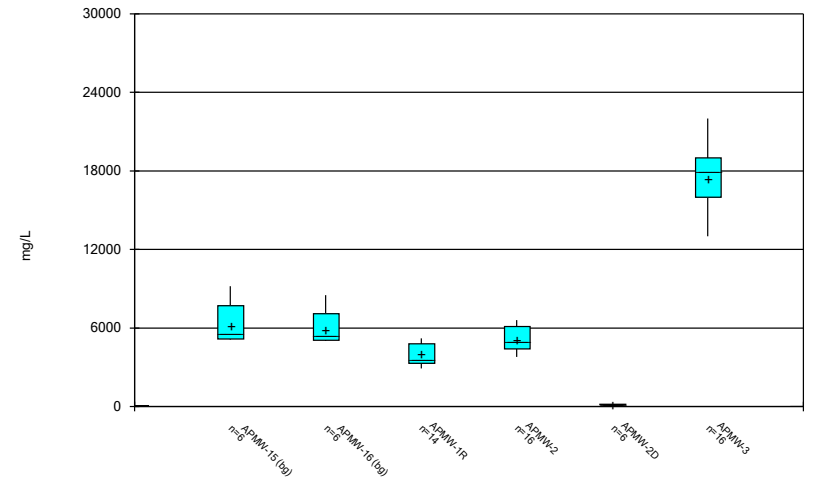
Constituent: Thallium Analysis Run 6/2/2023 12:14 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



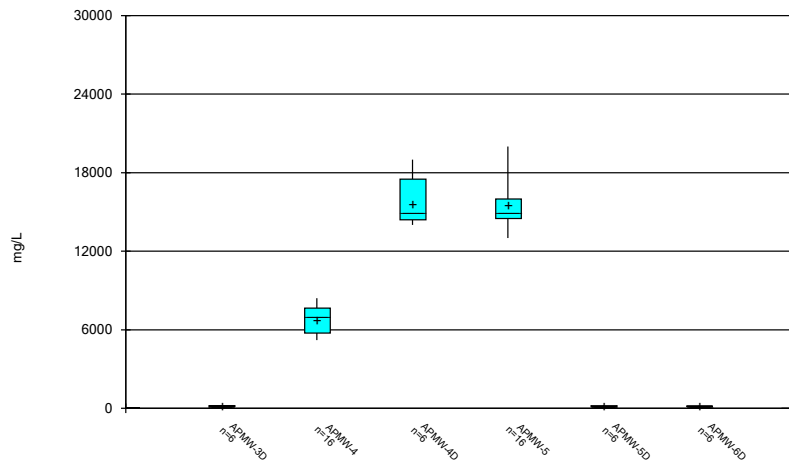
Constituent: Total Dissolved Solids Analysis Run 6/2/2023 12:14 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



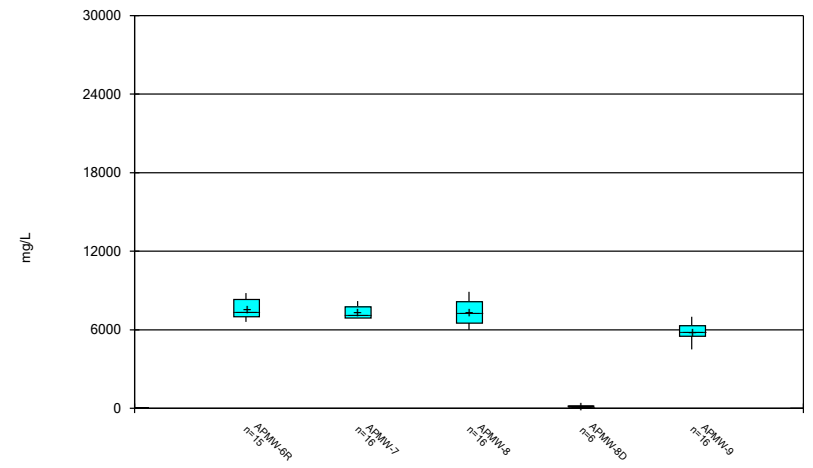
Constituent: Total Dissolved Solids Analysis Run 6/2/2023 12:14 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 6/2/2023 12:14 PM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 6/2/2023 12:14 PM
 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 11/29/2022, 2:40 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.

Appendix III Prediction Limit - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 11/29/2022, 2:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	APMW-10	1.2	n/a	10/18/2022	2.4	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	10/17/2022	1.3	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	10/17/2022	3.1	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	10/18/2022	5.6	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-4	1.2	n/a	10/19/2022	1.3	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	10/19/2022	6.5	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	10/19/2022	11	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	10/18/2022	23	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	10/18/2022	7.1	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	10/17/2022	200	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	10/17/2022	360	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	10/18/2022	310	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-4	130	n/a	10/19/2022	140	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	10/19/2022	340	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	10/19/2022	400	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	10/18/2022	520	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	10/18/2022	330	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	10/18/2022	8500	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	10/19/2022	8200	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-10	0.54	n/a	10/18/2022	0.68	Yes	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-8	0.54	n/a	10/18/2022	0.73	Yes	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.783	5.822	10/18/2022	6.98	Yes	55	0	None	No	0.0003761	Param Inter 1 of 2
Sulfate (mg/L)	APMW-3	840	n/a	10/18/2022	850	Yes	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	10/18/2022	14000	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	10/19/2022	13000	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2

Appendix III Prediction Limit - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 11/29/2022, 2:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	APMW-10	1.2	n/a	10/18/2022	2.4	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	10/17/2022	1.3	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	10/17/2022	3.1	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	10/18/2022	5.6	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-4	1.2	n/a	10/19/2022	1.3	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	10/19/2022	6.5	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	10/19/2022	11	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-7	1.2	n/a	10/18/2022	1.2	No	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	10/18/2022	23	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	10/18/2022	7.1	Yes	54	20.37	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-10	130	n/a	10/18/2022	46	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	10/17/2022	200	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	10/17/2022	360	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	10/18/2022	310	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-4	130	n/a	10/19/2022	140	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	10/19/2022	340	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	10/19/2022	400	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-7	130	n/a	10/18/2022	100	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	10/18/2022	520	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	10/18/2022	330	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-10	5400	n/a	10/18/2022	680	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-1R	5400	n/a	10/17/2022	2400	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-2	5400	n/a	10/17/2022	2500	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	10/18/2022	8500	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-4	5400	n/a	10/19/2022	2500	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	10/19/2022	8200	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-6R	5400	n/a	10/19/2022	4000	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-7	5400	n/a	10/18/2022	4000	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-8	5400	n/a	10/18/2022	3300	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-9	5400	n/a	10/18/2022	2900	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-10	0.54	n/a	10/18/2022	0.68	Yes	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-1R	0.54	n/a	10/17/2022	0.2ND	No	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-2	0.54	n/a	10/17/2022	0.2ND	No	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-3	0.54	n/a	10/18/2022	0.32J	No	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-4	0.54	n/a	10/19/2022	0.29	No	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-5	0.54	n/a	10/19/2022	0.065J	No	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-6R	0.54	n/a	10/19/2022	0.22	No	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-7	0.54	n/a	10/18/2022	0.084J	No	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-8	0.54	n/a	10/18/2022	0.73	Yes	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-9	0.54	n/a	10/18/2022	0.2ND	No	56	26.79	n/a	n/a	0.0006023	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.783	5.822	10/18/2022	6.98	Yes	55	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-1R	6.783	5.822	10/17/2022	6.27	No	55	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-2	6.783	5.822	10/17/2022	5.87	No	55	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-3	6.783	5.822	10/18/2022	6.61	No	55	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-4	6.783	5.822	10/19/2022	6.32	No	55	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-5	6.783	5.822	10/19/2022	6.38	No	55	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-6R	6.783	5.822	10/19/2022	6.1	No	55	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-7	6.783	5.822	10/18/2022	6.43	No	55	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-8	6.783	5.822	10/18/2022	6.67	No	55	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-9	6.783	5.822	10/18/2022	6.32	No	55	0	None	No	0.0003761	Param Inter 1 of 2
Sulfate (mg/L)	APMW-10	840	n/a	10/18/2022	1.25ND	No	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-1R	840	n/a	10/17/2022	1.2	No	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-2	840	n/a	10/17/2022	5.6	No	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-3	840	n/a	10/18/2022	850	Yes	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-4	840	n/a	10/19/2022	230	No	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-5	840	n/a	10/19/2022	810	No	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-6R	840	n/a	10/19/2022	800	No	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-7	840	n/a	10/18/2022	25	No	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-8	840	n/a	10/18/2022	560	No	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-9	840	n/a	10/18/2022	280	No	53	9.434	n/a	n/a	0.0006664	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-10	9200	n/a	10/18/2022	1900	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-1R	9200	n/a	10/17/2022	4900	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-2	9200	n/a	10/17/2022	6600	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	10/18/2022	14000	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-4	9200	n/a	10/19/2022	5900	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	10/19/2022	13000	Yes	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-6R	9200	n/a	10/19/2022	7000	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-7	9200	n/a	10/18/2022	7900	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2

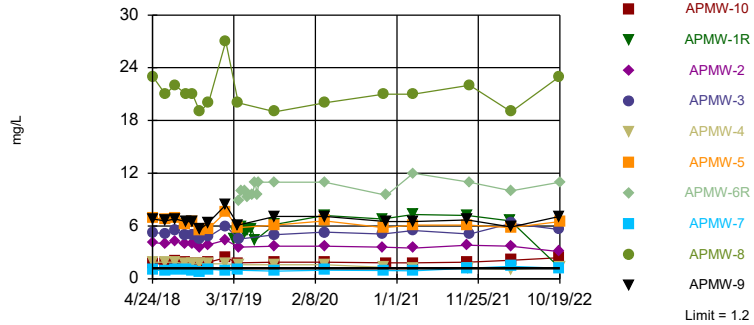
Appendix III Prediction Limit - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 11/29/2022, 2:52 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Total Dissolved Solids (mg/L)	APMW-8	9200	n/a	10/18/2022	7000	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-9	9200	n/a	10/18/2022	5900	No	54	0	n/a	n/a	0.000645	NP Inter (normality) 1 of 2

Exceeds Limit: APMW-10, APMW-1R, APMW-2, APMW-3, APMW-4, APMW-5, APMW-6R, APMW-8, APMW-9

Prediction Limit
Interwell Non-parametric

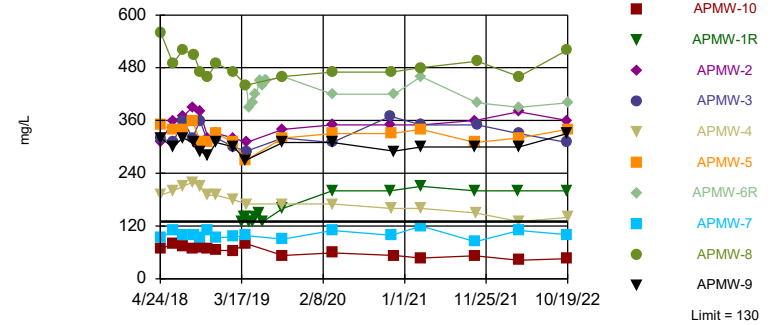


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 54 background values. 20.37% NDs. Annual per-constituent alpha = 0.01282. Individual comparison alpha = 0.000645 (1 of 2). Comparing 10 points to limit.

Constituent: Boron Analysis Run 11/29/2022 2:47 PM View: A3 PL
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

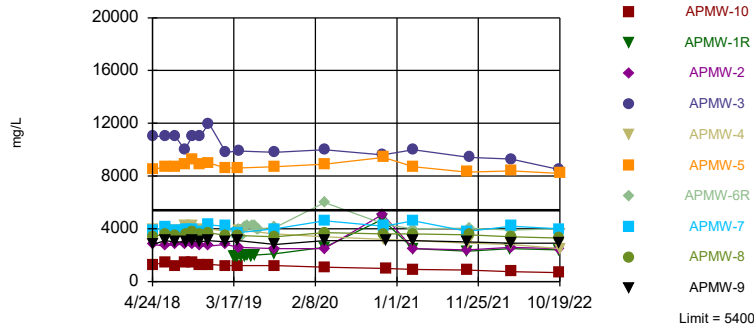


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 54 background values. Annual per-constituent alpha = 0.01282. Individual comparison alpha = 0.000645 (1 of 2). Comparing 10 points to limit.

Constituent: Calcium Analysis Run 11/29/2022 2:47 PM View: A3 PL
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Exceeds Limit: APMW-3, APMW-5

Prediction Limit
Interwell Non-parametric

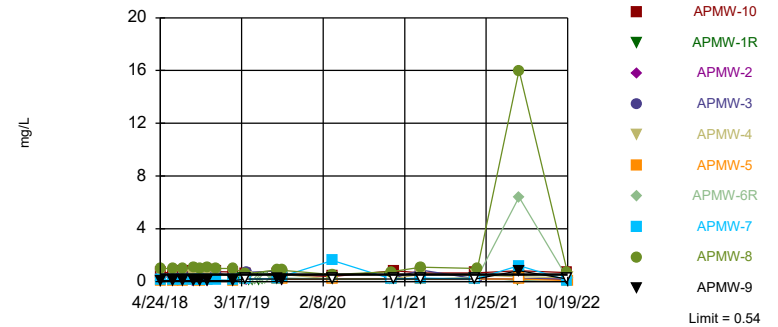


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 54 background values. Annual per-constituent alpha = 0.01282. Individual comparison alpha = 0.000645 (1 of 2). Comparing 10 points to limit.

Constituent: Chloride Analysis Run 11/29/2022 2:47 PM View: A3 PL
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Exceeds Limit: APMW-10, APMW-8

Prediction Limit
Interwell Non-parametric

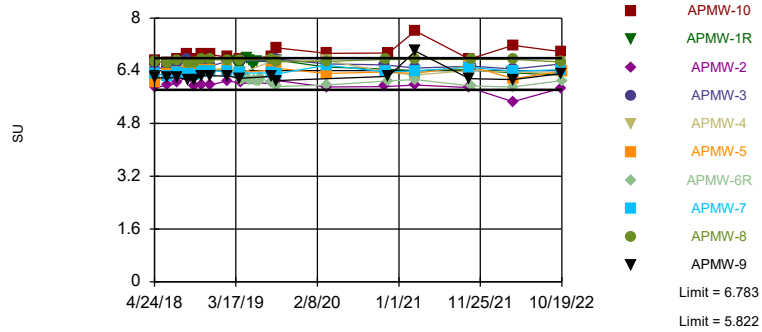


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 56 background values. 26.79% NDs. Annual per-constituent alpha = 0.01198. Individual comparison alpha = 0.0006023 (1 of 2). Comparing 10 points to limit.

Constituent: Fluoride Analysis Run 11/29/2022 2:47 PM View: A3 PL
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Exceeds Limits: APMW-10

Prediction Limit
Interwell Parametric

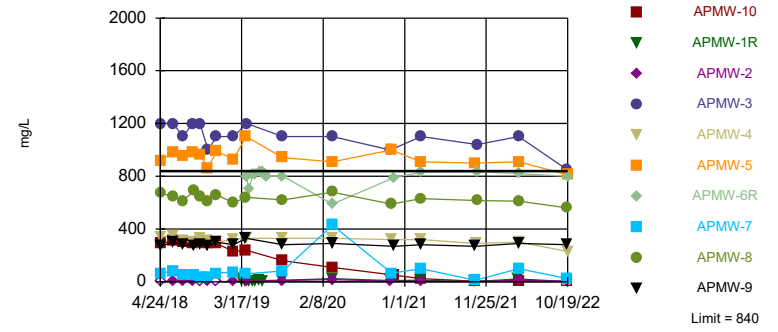


Background Data Summary: Mean=6.303, Std. Dev.=0.2381, n=55. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9651, critical = 0.94. Kappa = 2.02 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003761. Comparing 10 points to limit.

Constituent: pH Analysis Run 11/29/2022 2:47 PM View: A3 PL
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Exceeds Limit: APMW-3

Prediction Limit
Interwell Non-parametric

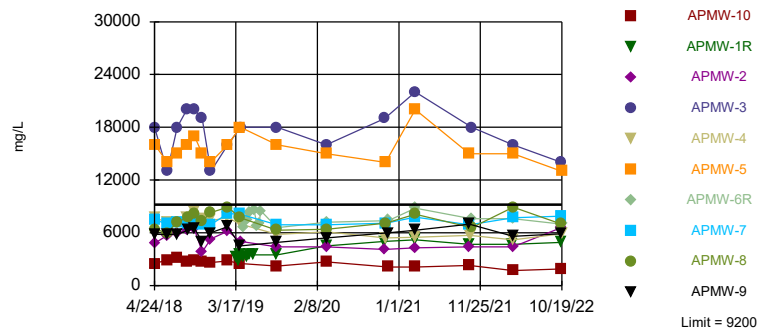


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 53 background values. 9.434% NDs. Annual per-constituent alpha = 0.01324. Individual comparison alpha = 0.0006664 (1 of 2). Comparing 10 points to limit.

Constituent: Sulfate Analysis Run 11/29/2022 2:47 PM View: A3 PL
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 Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 54 background values. Annual per-constituent alpha = 0.01282. Individual comparison alpha = 0.000645 (1 of 2). Comparing 10 points to limit.

Constituent: Total Dissolved Solids Analysis Run 11/29/2022 2:47 PM View: A3 PL
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/29/2022 2:52 PM View: A3 PL
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-7	APMW-8	APMW-9	APMW-10	APMW-12 (bg)
4/5/2022	3.7	6.3						2.1	
4/6/2022			1.1	5.8	1.4	19	5.9		
4/7/2022									
10/17/2022	3.1								<0.08
10/18/2022		5.6			1.2	23	7.1	2.4	
10/19/2022			1.3	6.5					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/29/2022 2:52 PM View: A3 PL
 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 11/29/2022 2:52 PM View: A3 PL
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
10/17/2022	<0.08	1.3					
10/18/2022							
10/19/2022			11	0.73	0.75	0.66	0.71

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/29/2022 2:52 PM View: A3 PL
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-7	APMW-8	APMW-9	APMW-10	APMW-12 (bg)
4/5/2022	380	330						42	
4/6/2022			130	320	110	460	300		
4/7/2022									
10/17/2022	360								10
10/18/2022		310			100	520	330	46	
10/19/2022			140	340					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/29/2022 2:52 PM View: A3 PL

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 11/29/2022 2:52 PM View: A3 PL
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
10/17/2022	9.5	200					
10/18/2022							
10/19/2022			400	65	110	100	82

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/29/2022 2:52 PM View: A3 PL
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-7	APMW-8	APMW-9	APMW-10	APMW-12 (bg)
4/5/2022	2600	9300						760	
4/6/2022			2800	8400	4200	3400	2900		
4/7/2022									
10/17/2022	2500								13
10/18/2022		8500			4000	3300	2900	680	
10/19/2022			2500	8200					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/29/2022 2:52 PM View: A3 PL

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 11/29/2022 2:52 PM View: A3 PL
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
10/17/2022	7.5	2400					
10/18/2022							
10/19/2022			4000	2700	2900	1400	3000

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/29/2022 2:52 PM View: A3 PL
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		<0.2			1 (J)				
4/4/2022									0.051 (J)
4/5/2022	<0.2	<0.2						0.82	
4/6/2022			0.36 (J)	<0.2	16	0.82 (J)	1.2 (J)		
4/7/2022									
10/17/2022	<0.2								<0.2
10/18/2022		0.32 (J)			0.73	<0.2	0.084 (J)	0.68	
10/19/2022			0.29	0.065 (J)					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/29/2022 2:52 PM View: A3 PL

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	0.047 (J)	<0.2					
3/27/2019	<0.2 (D)	<0.2					
4/3/2019	<0.2 (D)	<0.2					
4/4/2019							
4/5/2019			<0.2 (D)				
4/15/2019		0.14 (J)	<0.2				
4/16/2019	0.034 (J)						
5/2/2019		0.13 (J)	<0.2				
5/3/2019	0.042 (J)						
5/14/2019	0.039 (J)	<0.2	<0.2				
5/28/2019		0.16 (J)					
5/29/2019	<0.2		<0.2				
6/12/2019	<0.2	<0.2	<0.2				
6/19/2019			<0.2				
6/25/2019			0.32 (J)				
8/8/2019	0.051 (J)	0.21 (J)					
8/9/2019			<0.2				
8/29/2019	0.061 (J)						
8/30/2019		0.21 (J)	0.27 (J)				
3/16/2020		<0.2					
3/17/2020	<0.2		<0.2				
7/21/2020				0.17	0.07 (J)	0.09 (J)	
7/30/2020							0.19
11/3/2020				<0.2			
11/4/2020		<0.2			<0.2	0.24 (J)	<0.2
11/5/2020							
11/9/2020	<0.2						
11/10/2020							
11/20/2020			<0.2				
3/8/2021		<0.2		0.41 (J)	<0.2	0.17 (J)	0.28 (J)
3/9/2021			<0.2				
3/10/2021	0.056 (J)						
10/11/2021	0.041 (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 11/29/2022 2:52 PM View: A3 PL
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)
10/21/2021							
4/4/2022	0.062 (J)	0.13 (J)					
4/5/2022							
4/6/2022							
4/7/2022			6.4	0.25 (J)	<0.2	0.39 (J)	0.54 (J)
10/17/2022	<0.2	<0.2					
10/18/2022							
10/19/2022			0.22	0.13 (J)	<0.2	0.034 (J)	0.094 (J)

Prediction Limit

Constituent: pH (SU) Analysis Run 11/29/2022 2:52 PM View: A3 PL
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
10/21/2021		6.54			6.74				
4/4/2022									6.34
4/5/2022	5.46	6.45						7.17	
4/6/2022			6.37	6.16	6.74	6.13	6.38		
4/7/2022									
10/17/2022	5.87								6.27
10/18/2022		6.61			6.67	6.32	6.43	6.98	
10/19/2022			6.32	6.38					

Prediction Limit

Constituent: pH (SU) Analysis Run 11/29/2022 2:52 PM View: A3 PL
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-12 (bg)	APMW-11 (bg)	APMW-6R	APMW-13 (bg)	APMW-15 (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	6.44	6.97					
3/27/2019	6.38	6.7					
4/3/2019	6.19	6.45					
4/4/2019							
4/5/2019			6.12				
4/15/2019			6.14				
4/16/2019	6.3	6.52					
5/2/2019			6.19				
5/3/2019	6.33	6.37					
5/14/2019	6.64	6.57	6.12				
5/28/2019							
5/29/2019	6.6	6.31	6.11				
6/12/2019	6.31	6.41	6.09				
6/19/2019			6.1				
6/25/2019			6.18				
8/8/2019	6.12	6.29					
8/9/2019			6.03				
8/29/2019	6.24	6.2					
8/30/2019			5.92				
3/16/2020							
3/17/2020	6.2	6.2	5.97				
7/21/2020				6.01	6.51	6.08	
7/30/2020							6.48
11/3/2020					6.51		
11/4/2020				6.01		6.03	6.58
11/5/2020							
11/9/2020		6.21					
11/10/2020							
11/20/2020	6.31		6.09				
3/8/2021				5.97	6.41	5.99	6.48
3/9/2021			6.13				
3/10/2021		6.29					
10/11/2021	6.08	6.13					
10/12/2021							
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 11/29/2022 2:52 PM View: A3 PL
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-12 (bg)	APMW-11 (bg)	APMW-6R	APMW-13 (bg)	APMW-15 (bg)	APMW-14 (bg)	APMW-16 (bg)
10/21/2021							
4/4/2022	6	5.97					
4/5/2022							
4/6/2022							
4/7/2022			5.91	6.07	6.53	6.07	6.55
10/17/2022	6.12	6.19					
10/18/2022							
10/19/2022			6.1	6.08	6.58	6.07	6.64

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/29/2022 2:52 PM View: A3 PL
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)
4/5/2022	11	1100						7.5	
4/6/2022			300	910	610	290	98		
4/7/2022									
10/17/2022	5.6								<2.5
10/18/2022		850			560	280	25	<2.5	
10/19/2022			230	810					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/29/2022 2:52 PM View: A3 PL
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-1R	APMW-12 (bg)	APMW-6R	APMW-13 (bg)	APMW-15 (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	14	0.88 (J)					
3/27/2019	19	1.3 (D)					
4/3/2019	4.6 (J)	1.9 (D)					
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	5.8	2.2	810				
5/28/2019	9.4						
5/29/2019		1.2	830				
6/12/2019	8.8	1.1	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				802	52.9	713	
7/30/2020							33.4
11/3/2020					550		
11/4/2020	10			1700 (o)		670	440
11/5/2020							
11/9/2020							
11/10/2020							
11/20/2020		0.79 (J)	790				
3/8/2021	12			720	97	740	72
3/9/2021			830				
3/10/2021		1.1					
10/11/2021		<2.5					
10/12/2021	<2.5						
10/14/2021							
10/15/2021						730	55
10/20/2021			835 (D)	840	91.5 (D)		
10/21/2021							
4/4/2022	21	1.3					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/29/2022 2:52 PM View: A3 PL
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-1R	APMW-12 (bg)	APMW-6R	APMW-13 (bg)	APMW-15 (bg)	APMW-14 (bg)	APMW-16 (bg)
4/5/2022							
4/6/2022							
4/7/2022			820	810	160	810	140
10/17/2022	1.2	<2.5					
10/18/2022							
10/19/2022			800	810	76	830	57

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/29/2022 2:52 PM View: A3 PL
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
4/5/2022	4400	16000						1700	
4/6/2022			5200	15000	8900	5600	7700		
4/7/2022									
10/17/2022	6600								4900
10/18/2022		14000			7000	5900	7900	1900	
10/19/2022			5900	13000					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/29/2022 2:52 PM View: A3 PL
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-12 (bg)	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	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				6350	3760	5400	
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				6800	3600	6200	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		3400	5200	
10/21/2021							
4/4/2022	120	78					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/29/2022 2:52 PM View: A3 PL
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-12 (bg)	APMW-11 (bg)	APMW-6R	APMW-14 (bg)	APMW-13 (bg)	APMW-15 (bg)	APMW-16 (bg)
4/5/2022							
4/6/2022							
4/7/2022			7600	6000	3400	5100	5100
10/17/2022	120	86					
10/18/2022							
10/19/2022			7000	5900	3600	5700	5700

FIGURE E.

Trend Tests - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 11/29/2022, 2:58 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-2	-0.191	-60	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-4	-0.1859	-96	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-11 (bg)	-1.557	-56	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	24.83	64	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-4	-15.61	-94	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-3	-436.4	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	APMW-10	0.08323	69	63	Yes	17	0	n/a	n/a	0.01	NP
pH (SU)	APMW-11 (bg)	-0.1899	-92	-58	Yes	16	0	n/a	n/a	0.01	NP

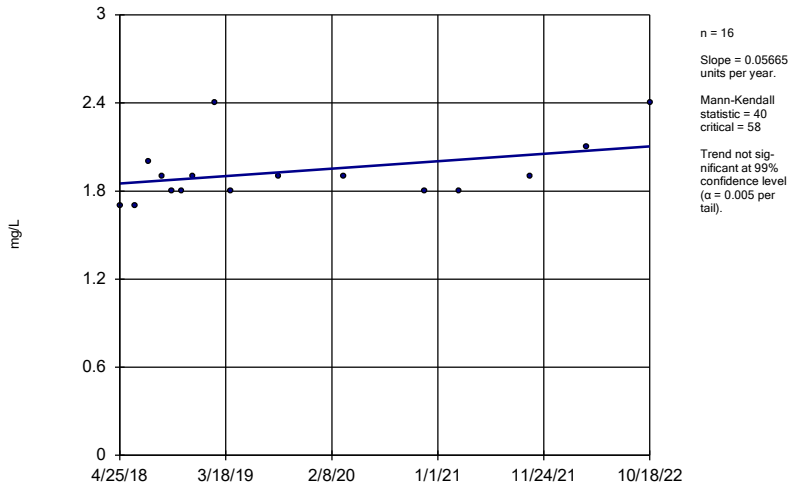
Trend Tests - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 11/29/2022, 2:58 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	APMW-10	0.05665	40	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-11 (bg)	0.00522	34	53	No	15	46.67	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-12 (bg)	0.01308	51	53	No	15	26.67	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-13 (bg)	0.01752	3	14	No	6	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-14 (bg)	-0.004672	-2	-14	No	6	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-15 (bg)	0.01848	3	14	No	6	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-16 (bg)	-0.0237	-3	-14	No	6	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-1R	0.7757	43	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-2	-0.191	-60	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-3	0.09801	28	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-4	-0.1859	-96	-58	Yes	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-5	-0.1236	-28	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-6R	0.4047	42	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-8	0	-12	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-9	0	-4	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-11 (bg)	-1.557	-56	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-12 (bg)	-0.548	-51	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-13 (bg)	-0.5603	-1	-14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-14 (bg)	-7.033	-9	-14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-15 (bg)	-8.639	-11	-14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-16 (bg)	-16.78	-5	-14	No	6	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	24.83	64	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-2	6.364	21	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-3	0	2	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-4	-15.61	-94	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-5	-2.614	-18	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-6R	0	-3	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-8	-5.991	-23	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-9	0	-10	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-11 (bg)	-0.1313	-14	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-12 (bg)	0	-11	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-13 (bg)	-123.7	-6	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-14 (bg)	-61.86	-6	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-15 (bg)	-123.7	-5	-14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-16 (bg)	0	0	14	No	6	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-3	-436.4	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-5	-79.01	-24	-58	No	16	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-10	-0.0207	-18	-63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-11 (bg)	0	15	58	No	16	43.75	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-12 (bg)	0.003185	3	58	No	16	12.5	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-13 (bg)	-0.02493	-1	-14	No	6	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-14 (bg)	0	5	14	No	6	66.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-15 (bg)	-0.1478	-6	-14	No	6	16.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-16 (bg)	-0.04321	-1	-14	No	6	16.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-8	-0.03998	-30	-63	No	17	0	n/a	n/a	0.01	NP
pH (SU)	APMW-10	0.08323	69	63	Yes	17	0	n/a	n/a	0.01	NP
pH (SU)	APMW-11 (bg)	-0.1899	-92	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	APMW-12 (bg)	-0.1023	-51	-53	No	15	0	n/a	n/a	0.01	NP
pH (SU)	APMW-13 (bg)	0.03116	4	14	No	6	0	n/a	n/a	0.01	NP
pH (SU)	APMW-14 (bg)	-0.004451	-2	-14	No	6	0	n/a	n/a	0.01	NP
pH (SU)	APMW-15 (bg)	0.03116	8	14	No	6	0	n/a	n/a	0.01	NP
pH (SU)	APMW-16 (bg)	0.05781	7	14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-11 (bg)	-0.1218	-25	-53	No	15	20	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-12 (bg)	-0.2312	-34	-53	No	15	13.33	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-13 (bg)	4.116	3	12	No	5	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-14 (bg)	56.65	11	14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-15 (bg)	-8.883	-1	-14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-16 (bg)	1.978	1	14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-3	-37.02	-54	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-11 (bg)	-6.844	-33	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-12 (bg)	-4.092	-23	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-13 (bg)	-210.2	-7	-14	No	6	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-14 (bg)	-204.4	-5	-14	No	6	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-15 (bg)	-216	-5	-14	No	6	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-16 (bg)	47.4	3	14	No	6	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-3	0	-8	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-5	0	-13	-58	No	16	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

APMW-10

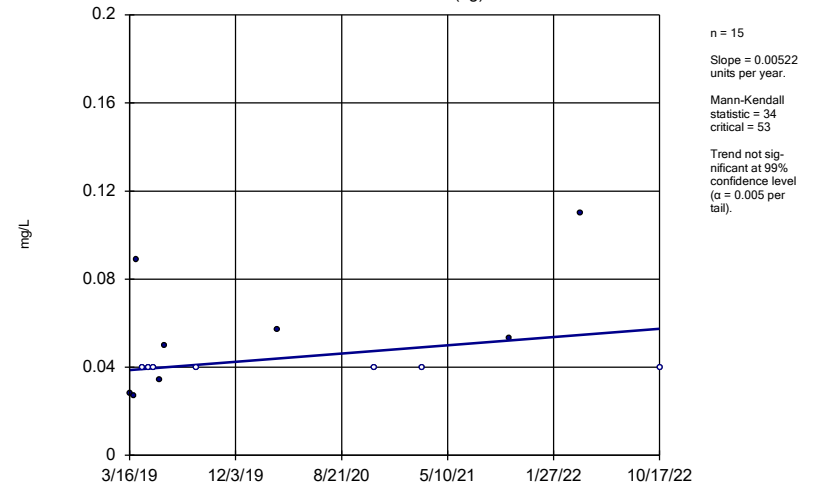


Constituent: Boron Analysis Run 11/29/2022 2:53 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Hollow symbols indicate censored values.

Sen's Slope Estimator

APMW-11 (bg)

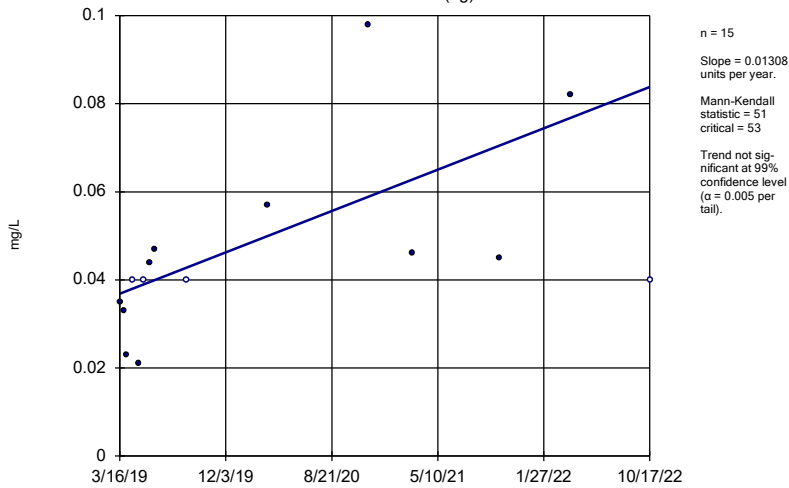


Constituent: Boron Analysis Run 11/29/2022 2:53 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Hollow symbols indicate censored values.

Sen's Slope Estimator

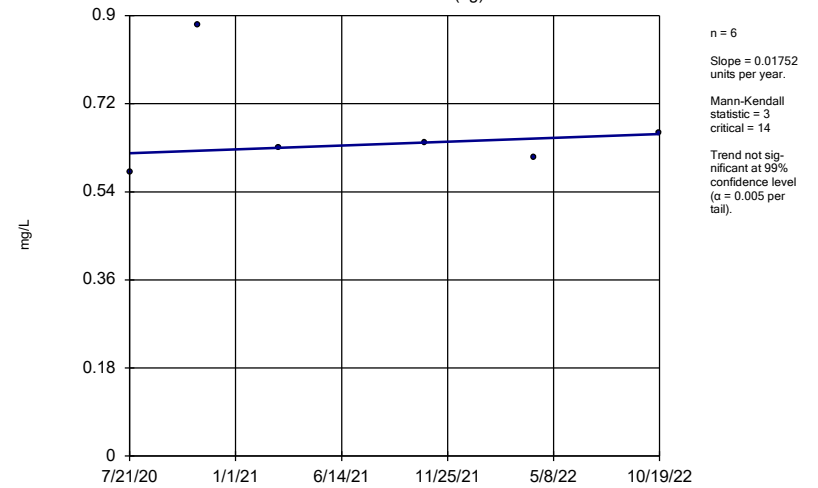
APMW-12 (bg)



Constituent: Boron Analysis Run 11/29/2022 2:53 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

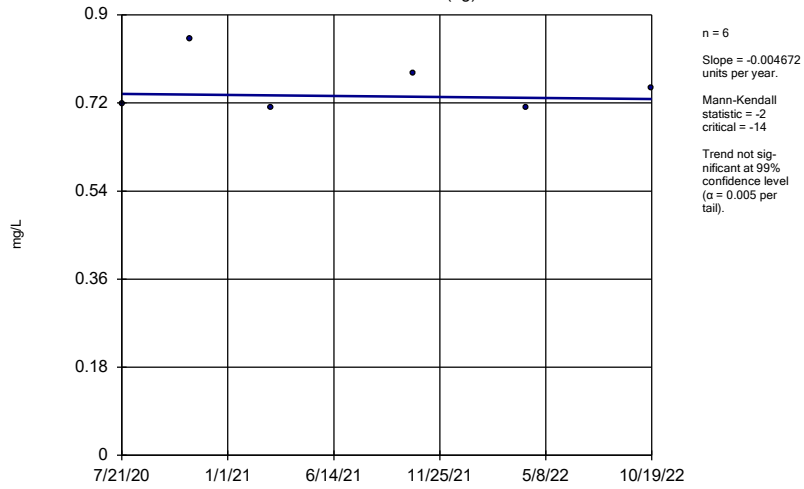
APMW-13 (bg)



Constituent: Boron Analysis Run 11/29/2022 2:53 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

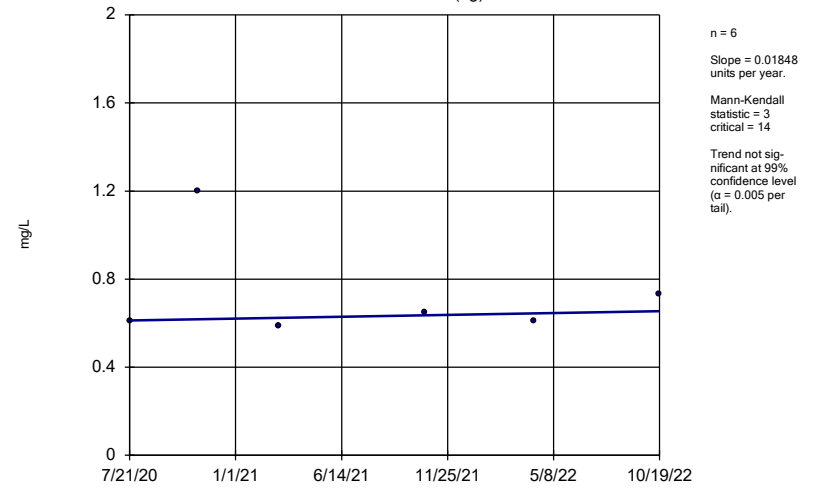
APMW-14 (bg)



Constituent: Boron Analysis Run 11/29/2022 2:53 PM View: A3 Trend Test
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

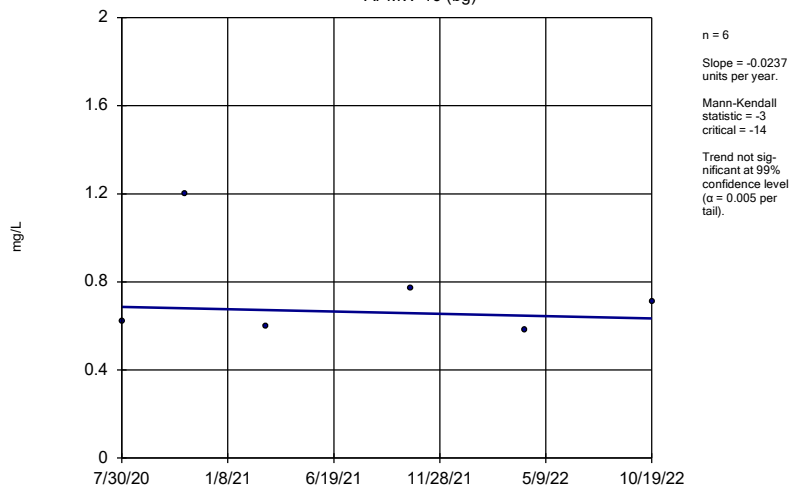
APMW-15 (bg)



Constituent: Boron Analysis Run 11/29/2022 2:53 PM View: A3 Trend Test
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

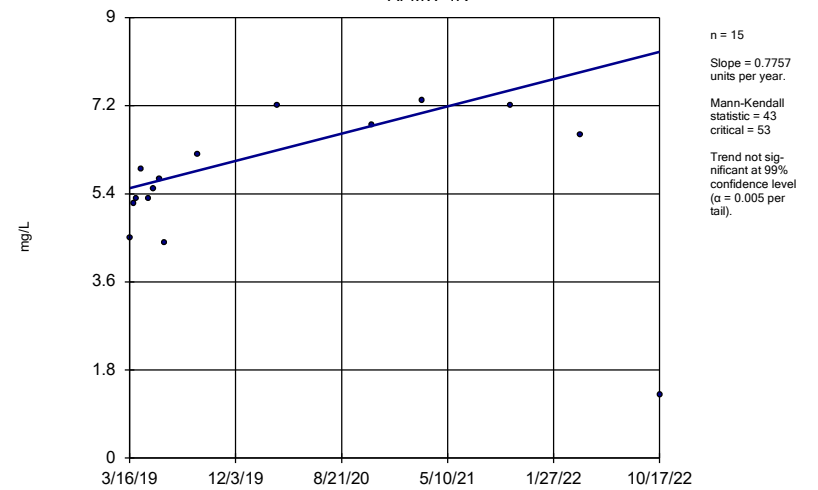
APMW-16 (bg)



Constituent: Boron Analysis Run 11/29/2022 2:53 PM View: A3 Trend Test
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

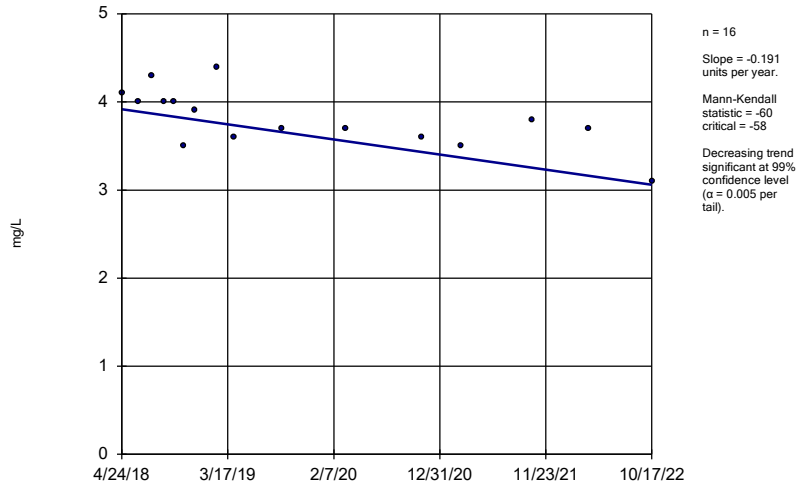
Sen's Slope Estimator

APMW-1R



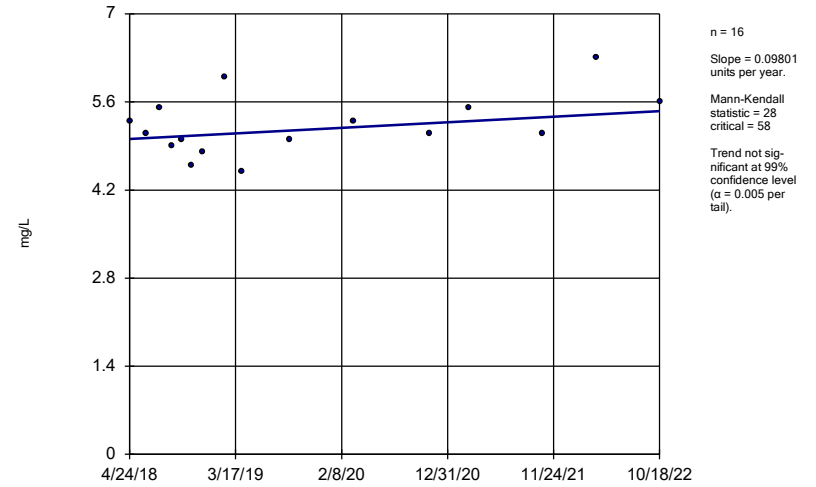
Constituent: Boron Analysis Run 11/29/2022 2:53 PM View: A3 Trend Test
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator APMW-2



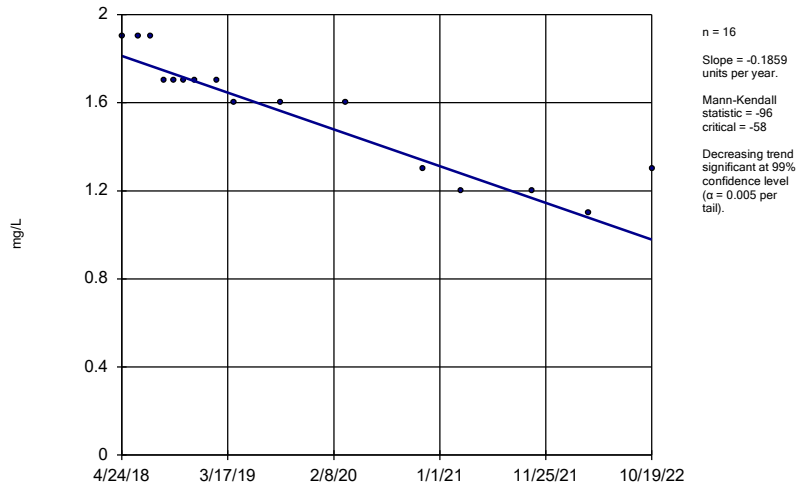
Constituent: Boron Analysis Run 11/29/2022 2:53 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator APMW-3



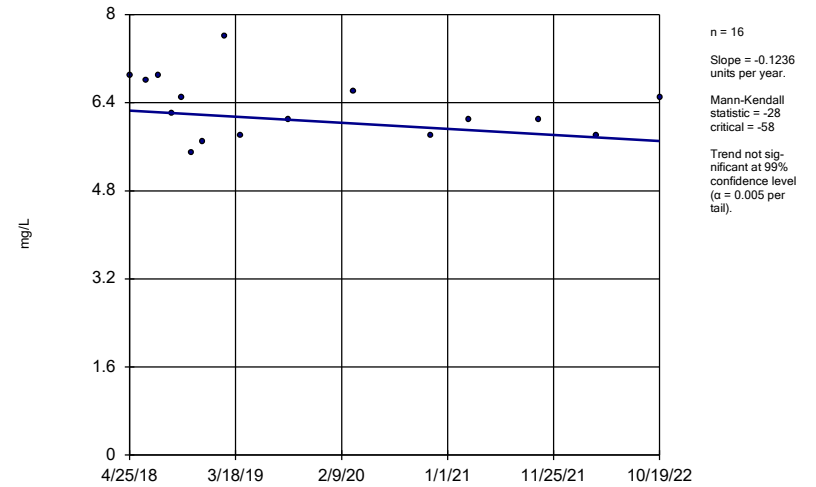
Constituent: Boron Analysis Run 11/29/2022 2:53 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator APMW-4



Constituent: Boron Analysis Run 11/29/2022 2:53 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

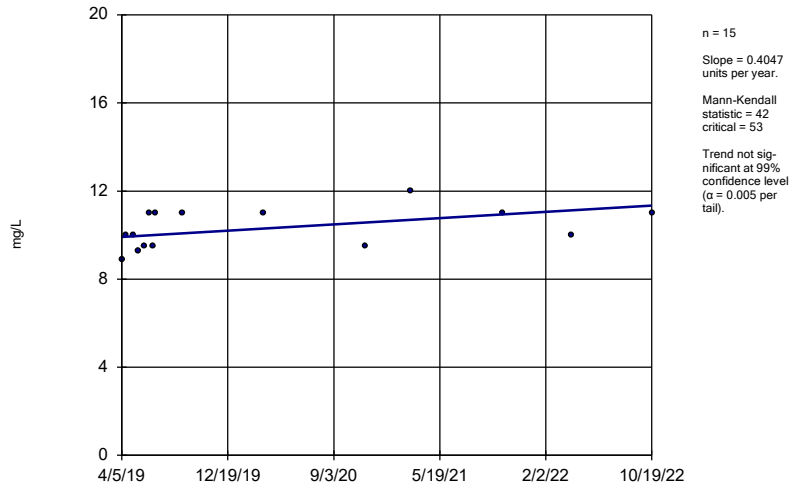
Sen's Slope Estimator APMW-5



Constituent: Boron Analysis Run 11/29/2022 2:53 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

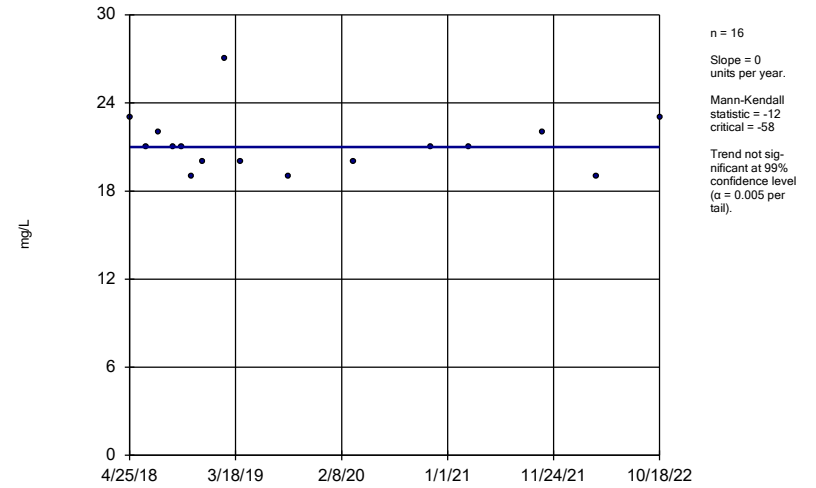
APMW-6R



Constituent: Boron Analysis Run 11/29/2022 2:53 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

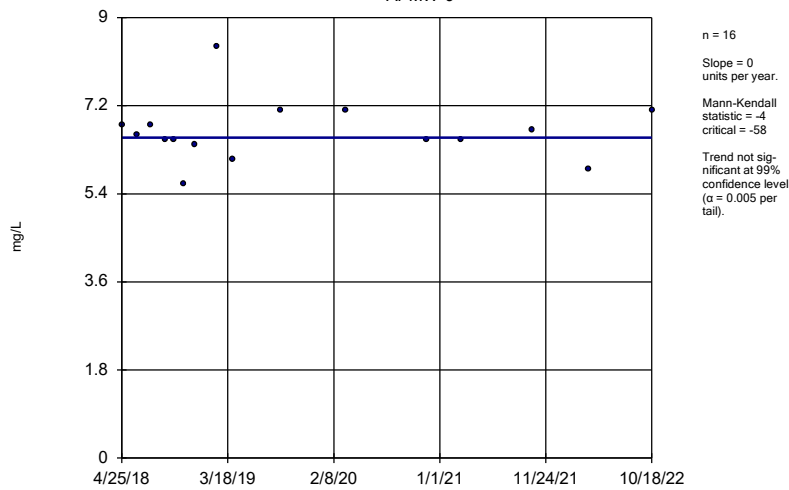
APMW-8



Constituent: Boron Analysis Run 11/29/2022 2:53 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

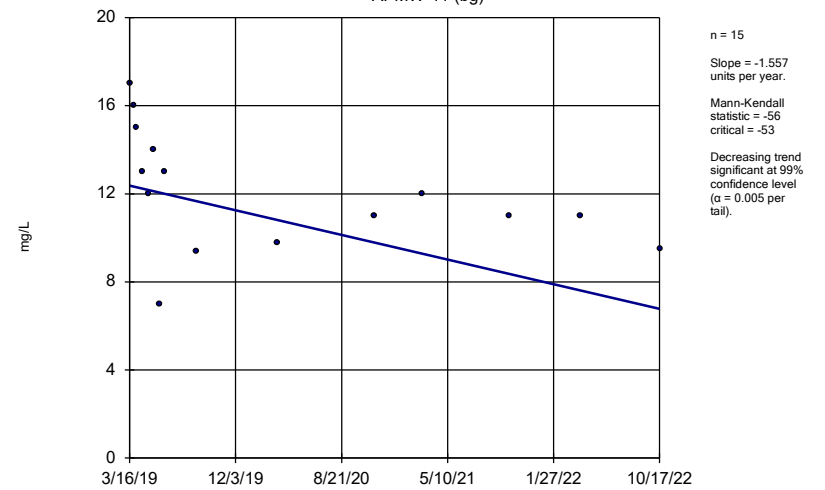
APMW-9



Constituent: Boron Analysis Run 11/29/2022 2:53 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

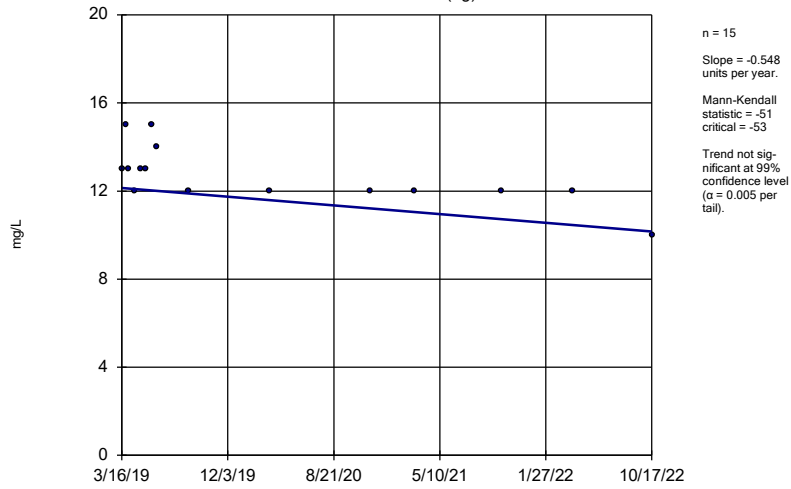
APMW-11 (bg)



Constituent: Calcium Analysis Run 11/29/2022 2:53 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

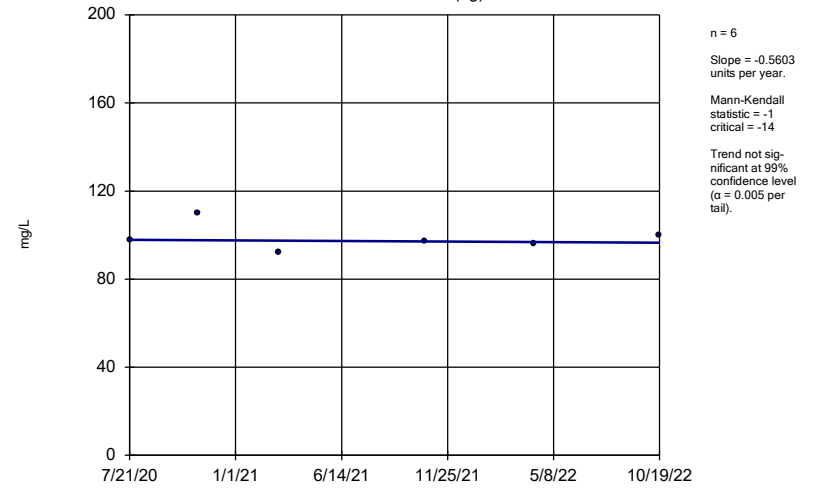
APMW-12 (bg)



Constituent: Calcium Analysis Run 11/29/2022 2:53 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

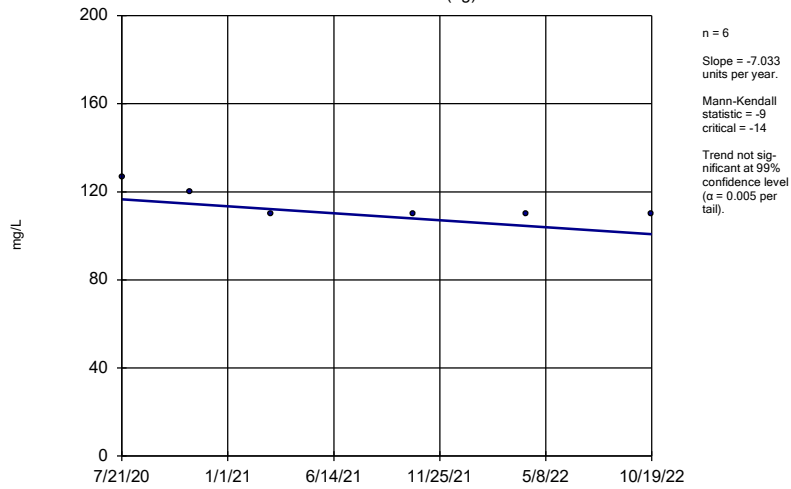
APMW-13 (bg)



Constituent: Calcium Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

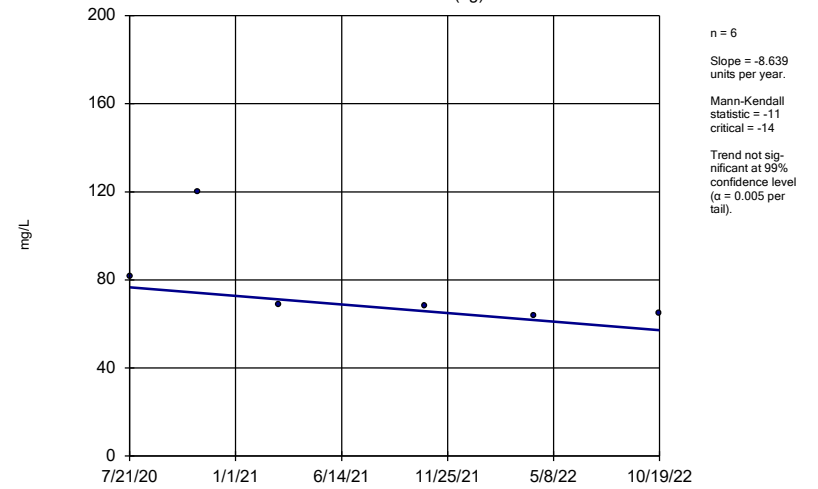
APMW-14 (bg)



Constituent: Calcium Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

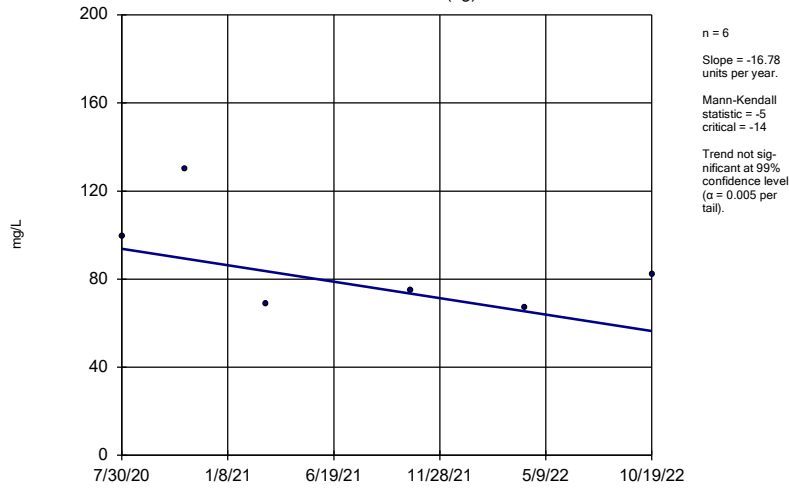
APMW-15 (bg)



Constituent: Calcium Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

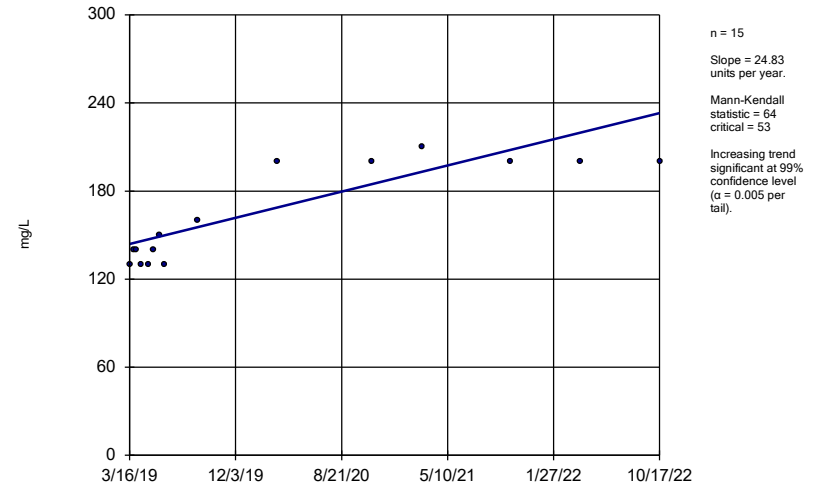
APMW-16 (bg)



Constituent: Calcium Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

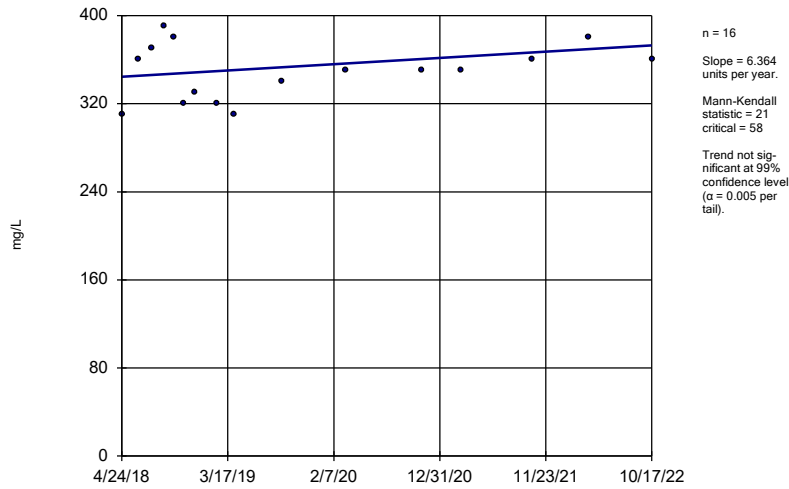
APMW-1R



Constituent: Calcium Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

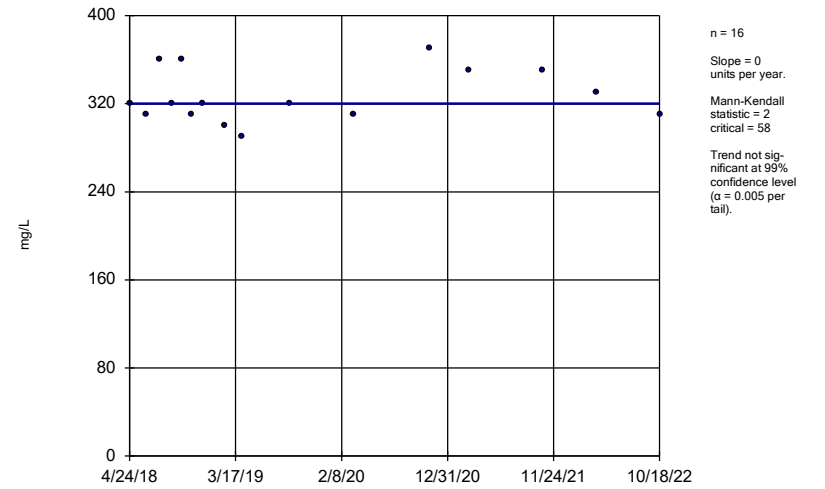
APMW-2



Constituent: Calcium Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

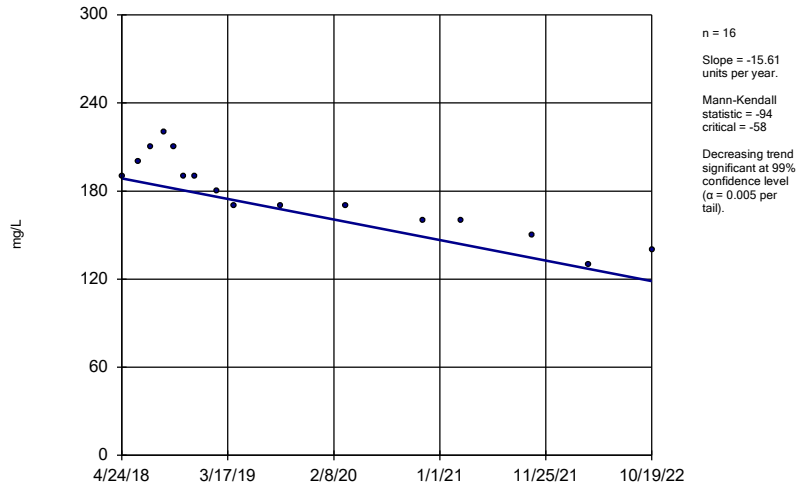
APMW-3



Constituent: Calcium Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

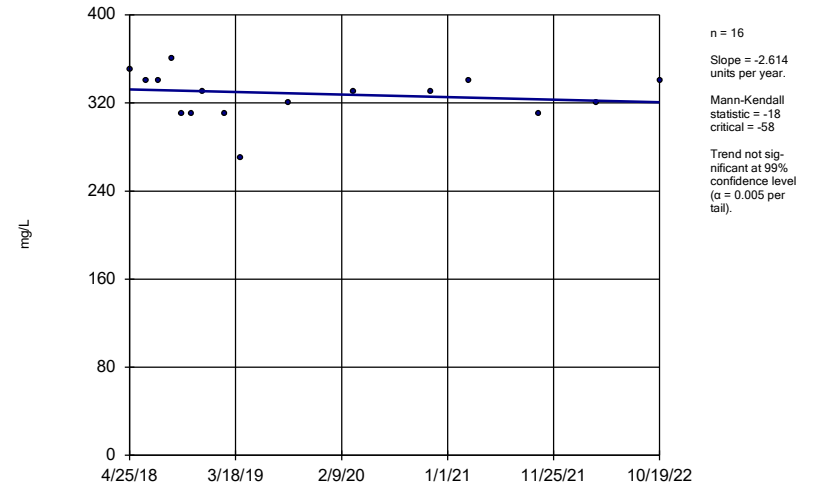
APMW-4



Constituent: Calcium Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

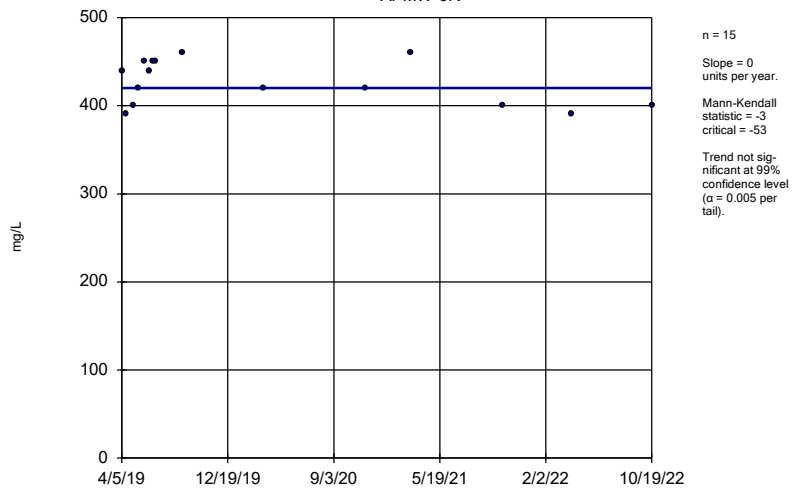
APMW-5



Constituent: Calcium Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

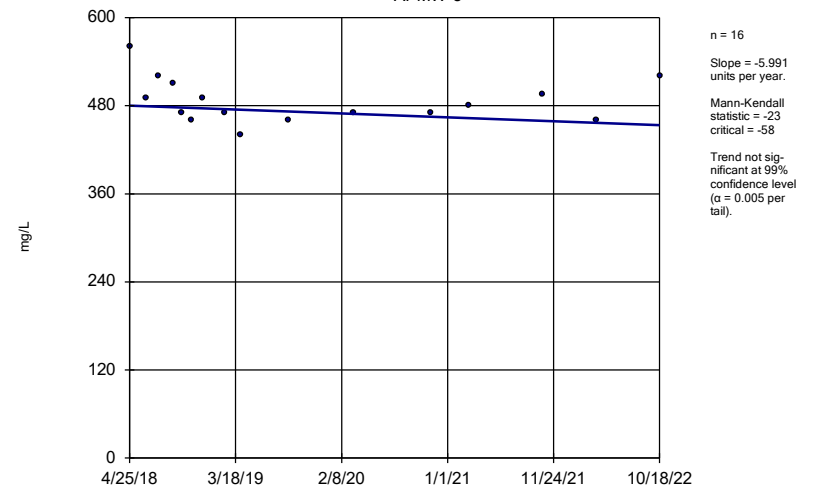
APMW-6R



Constituent: Calcium Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

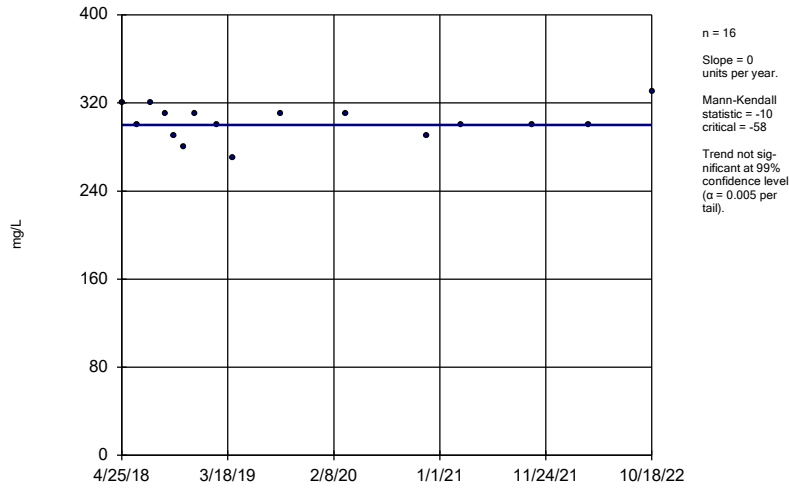
APMW-8



Constituent: Calcium Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

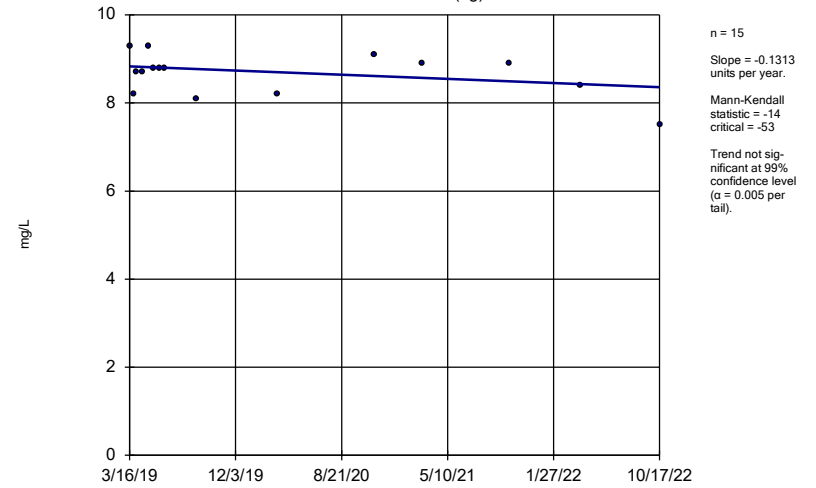
APMW-9



Constituent: Calcium Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

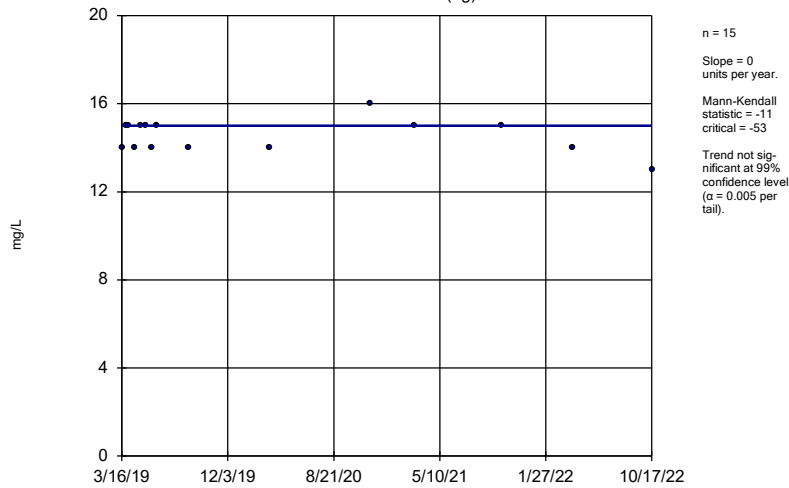
APMW-11 (bg)



Constituent: Chloride Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

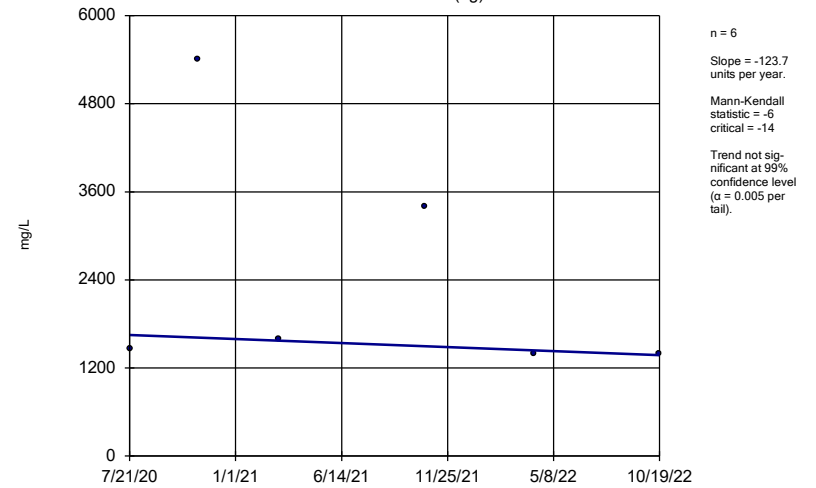
APMW-12 (bg)



Constituent: Chloride Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

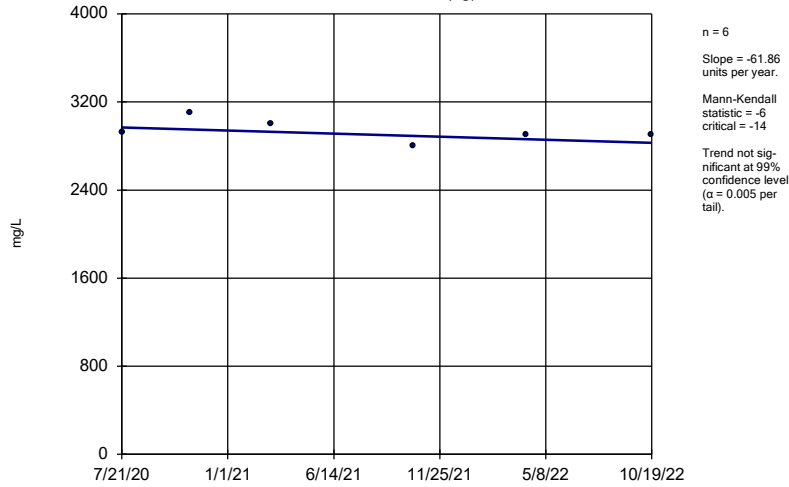
APMW-13 (bg)



Constituent: Chloride Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

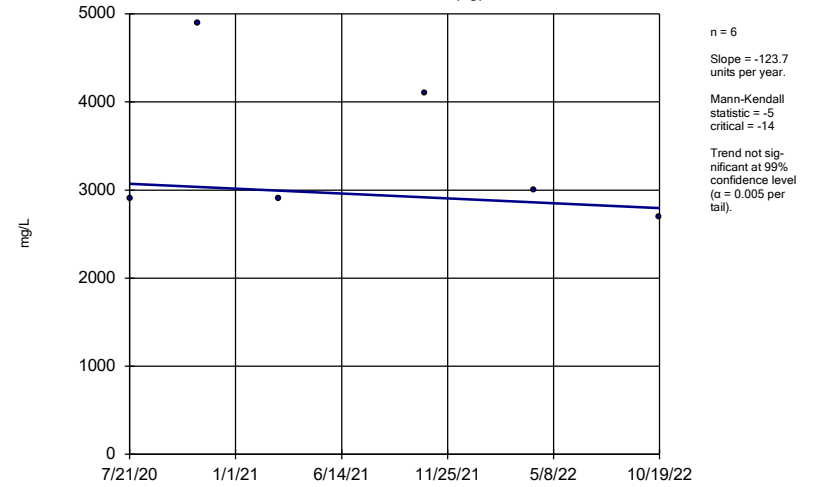
APMW-14 (bg)



Constituent: Chloride Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

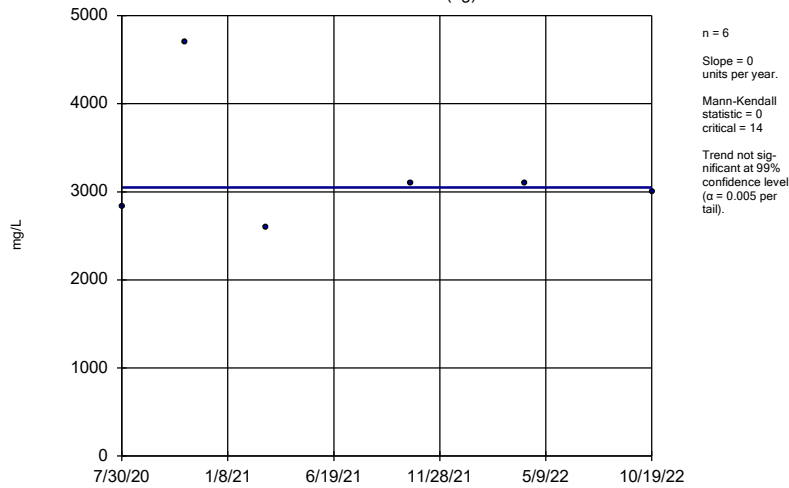
APMW-15 (bg)



Constituent: Chloride Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

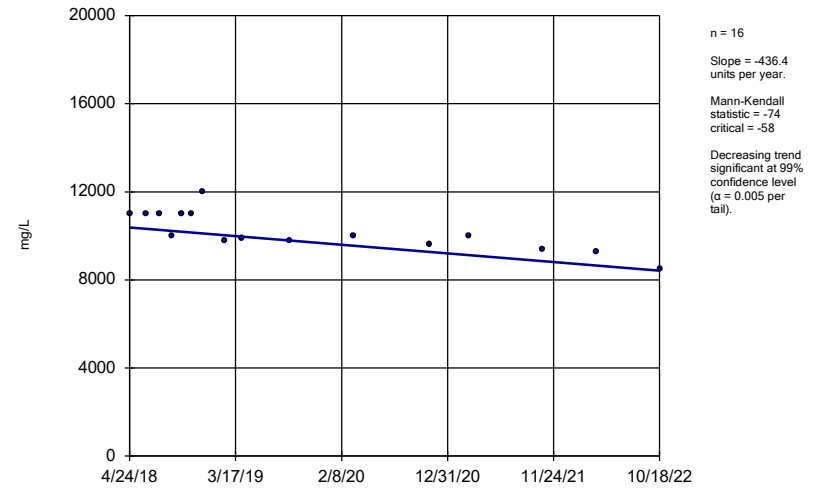
APMW-16 (bg)



Constituent: Chloride Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

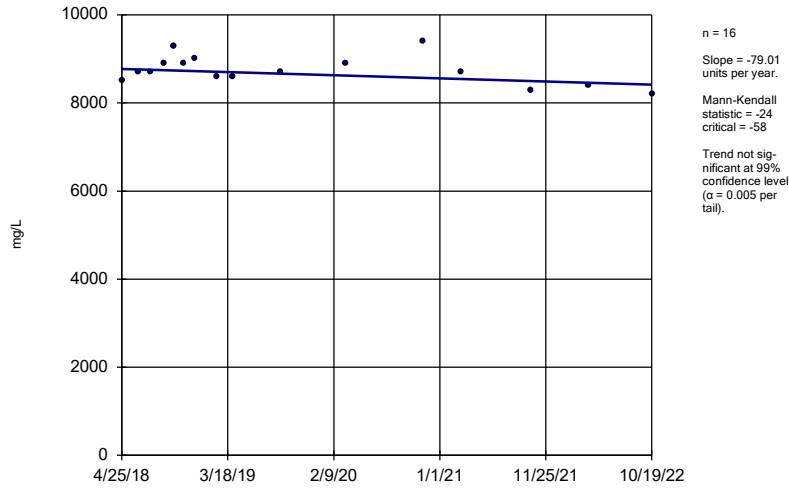
APMW-3



Constituent: Chloride Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

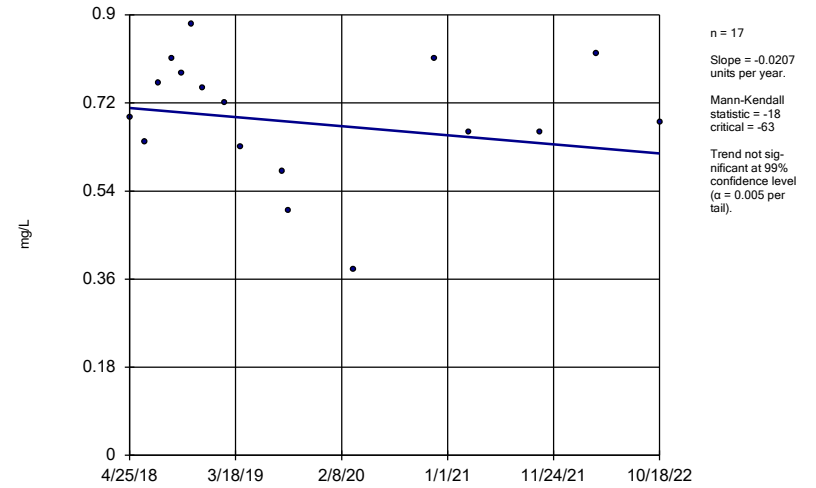
APMW-5



Constituent: Chloride Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

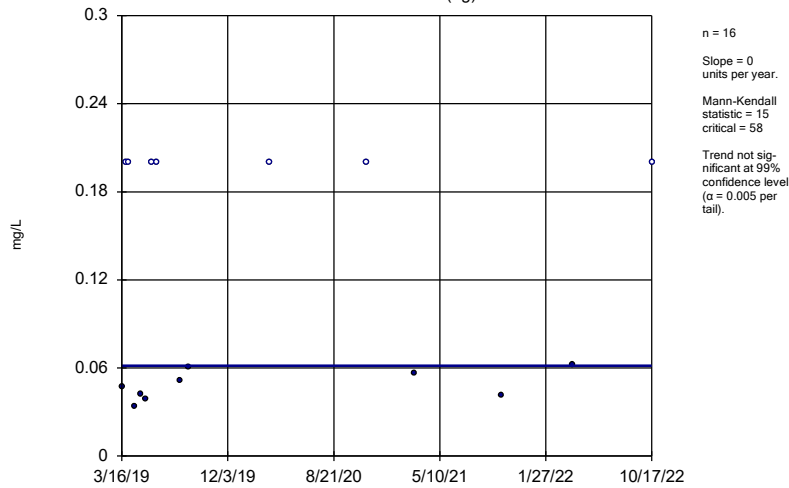
APMW-10



Constituent: Fluoride Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

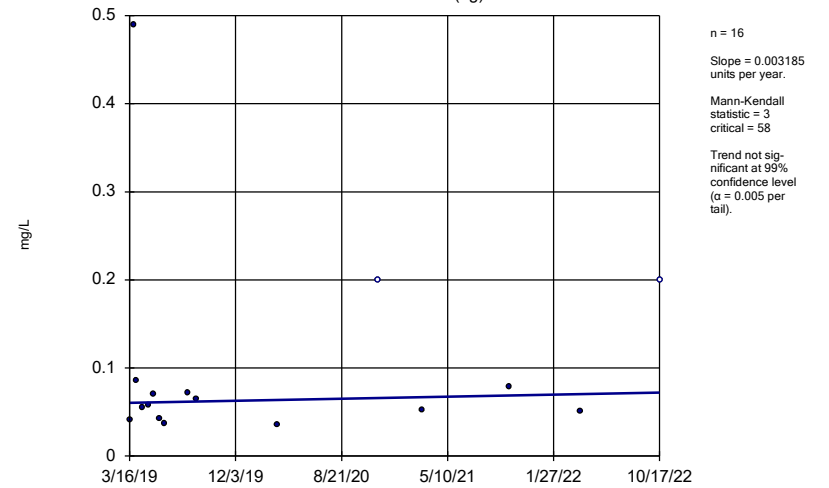
APMW-11 (bg)



Constituent: Fluoride Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

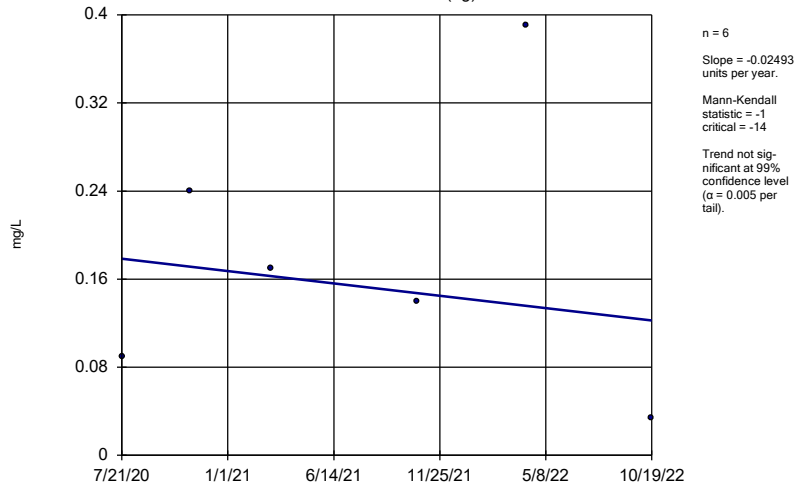
APMW-12 (bg)



Constituent: Fluoride Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-13 (bg)

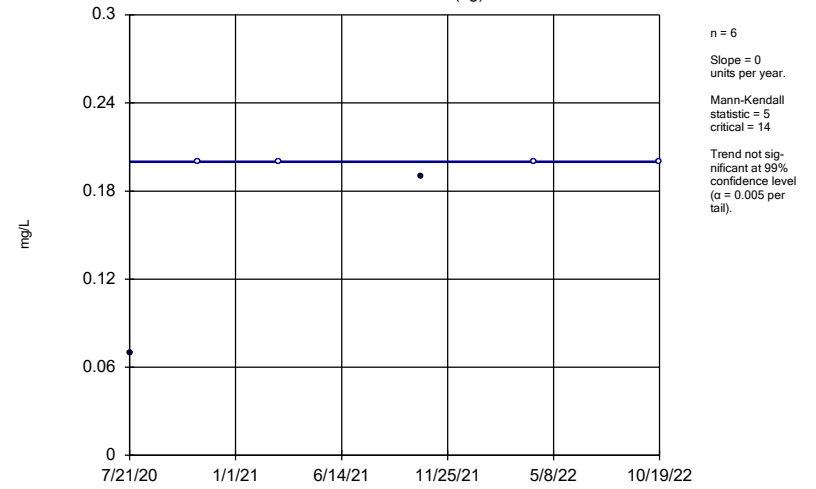


Constituent: Fluoride Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Hollow symbols indicate censored values.

Sen's Slope Estimator

APMW-14 (bg)

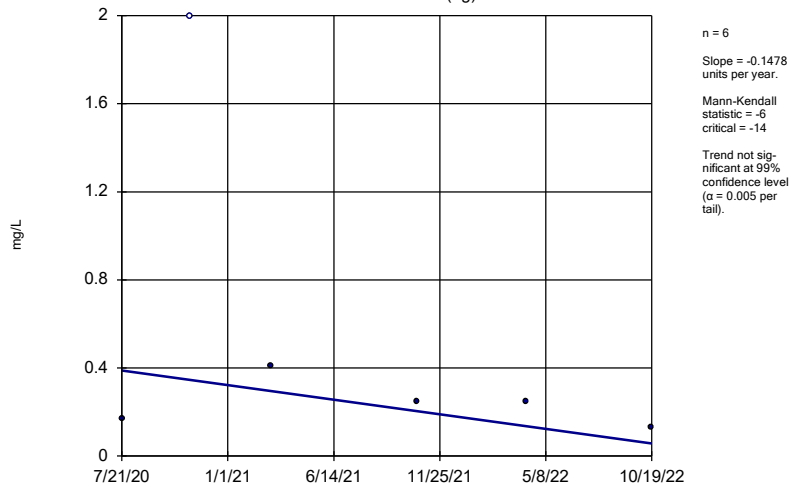


Constituent: Fluoride Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Hollow symbols indicate censored values.

Sen's Slope Estimator

APMW-15 (bg)

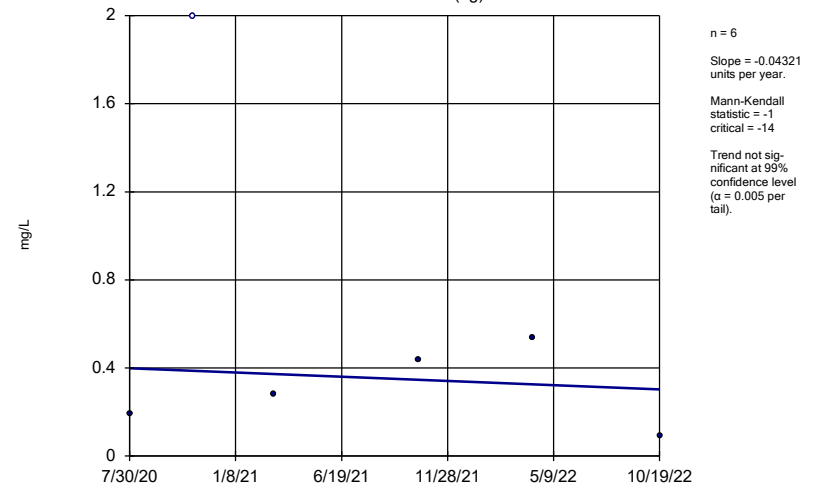


Constituent: Fluoride Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Hollow symbols indicate censored values.

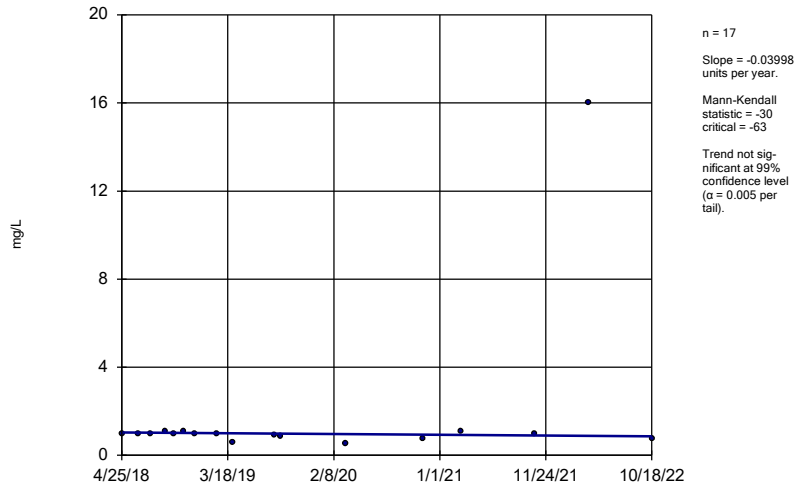
Sen's Slope Estimator

APMW-16 (bg)



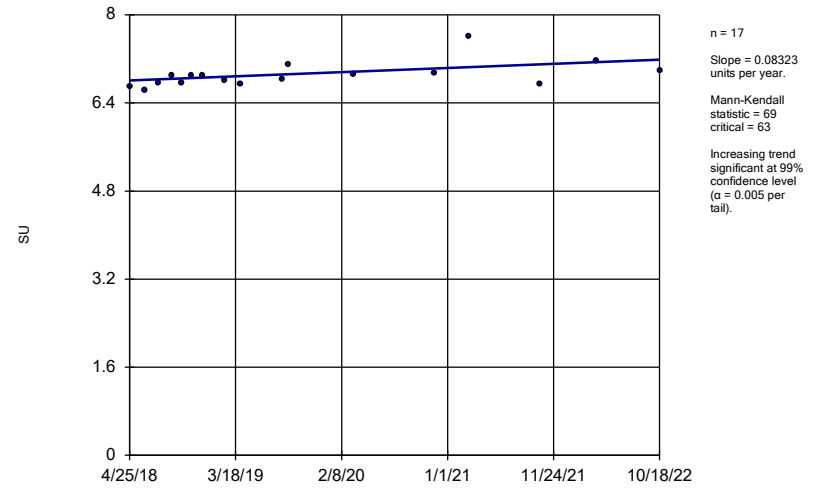
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator APMW-8



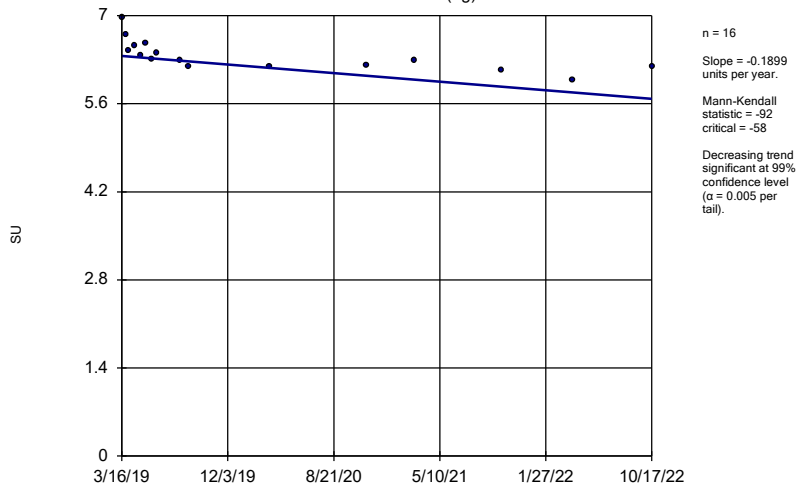
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator APMW-10



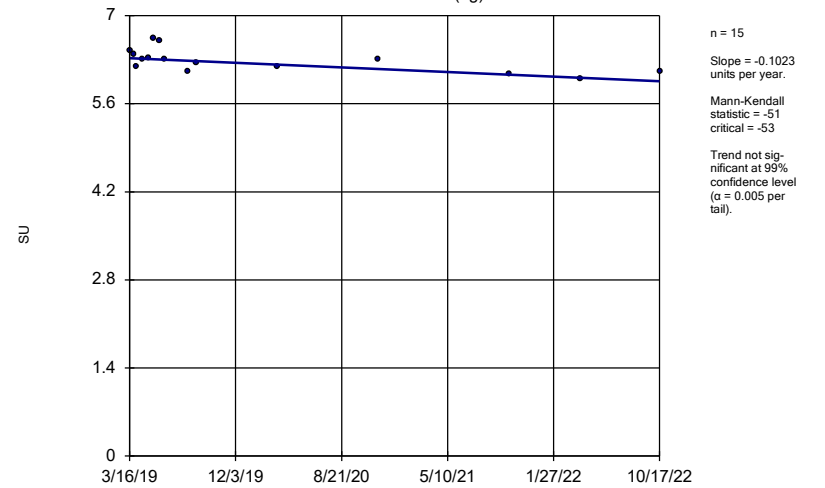
Constituent: pH Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator APMW-11 (bg)



Constituent: pH Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

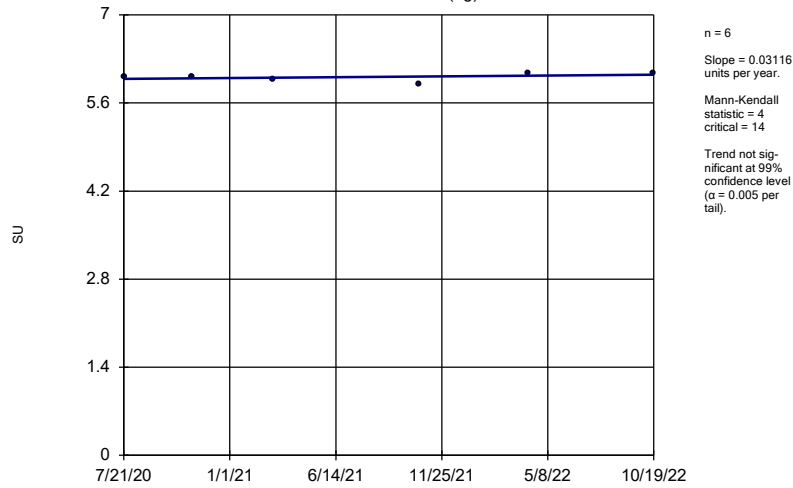
Sen's Slope Estimator APMW-12 (bg)



Constituent: pH Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

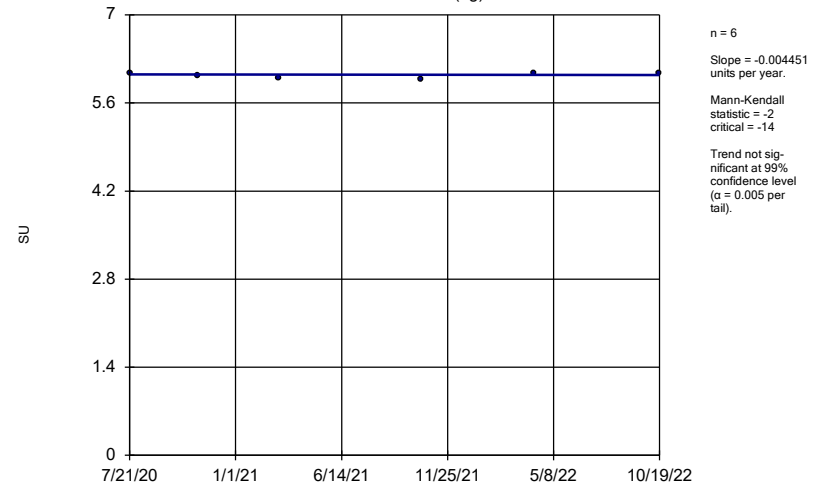
APMW-13 (bg)



Constituent: pH Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

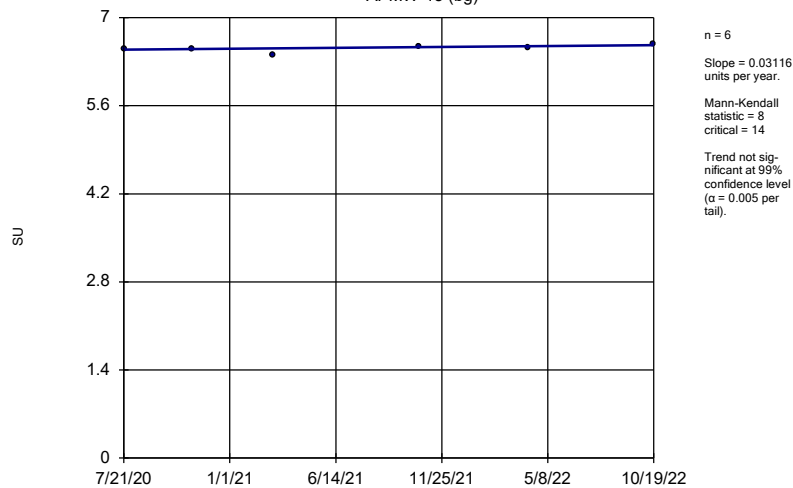
APMW-14 (bg)



Constituent: pH Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

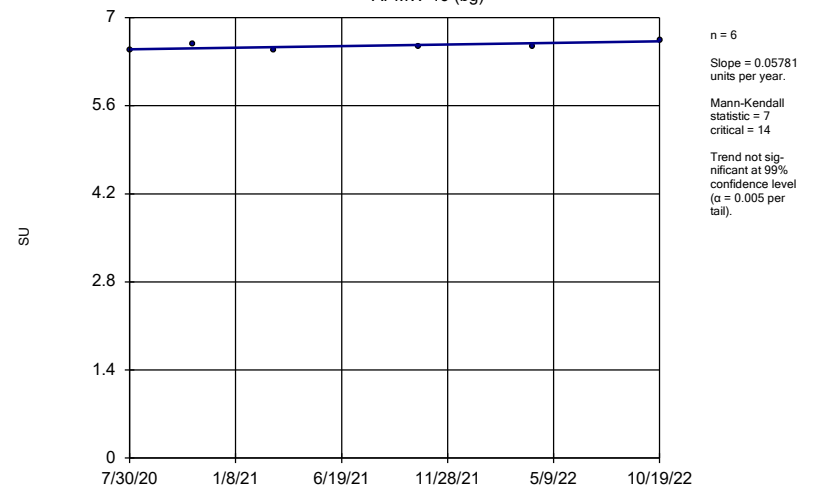
APMW-15 (bg)



Constituent: pH Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

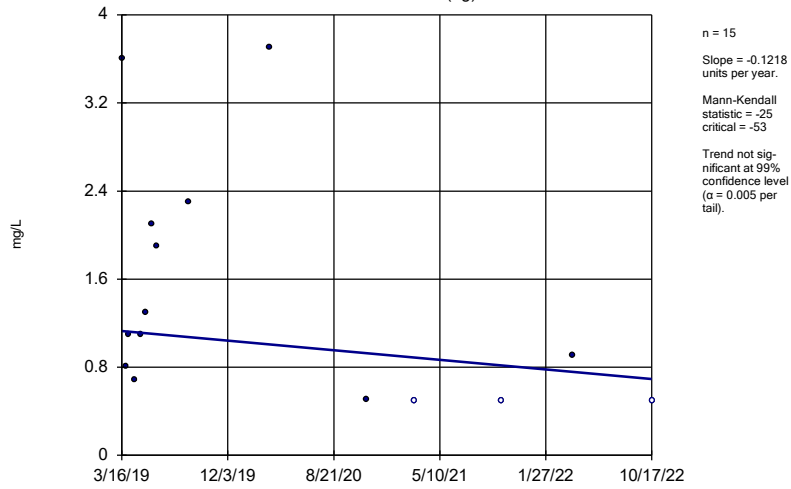
APMW-16 (bg)



Constituent: pH Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

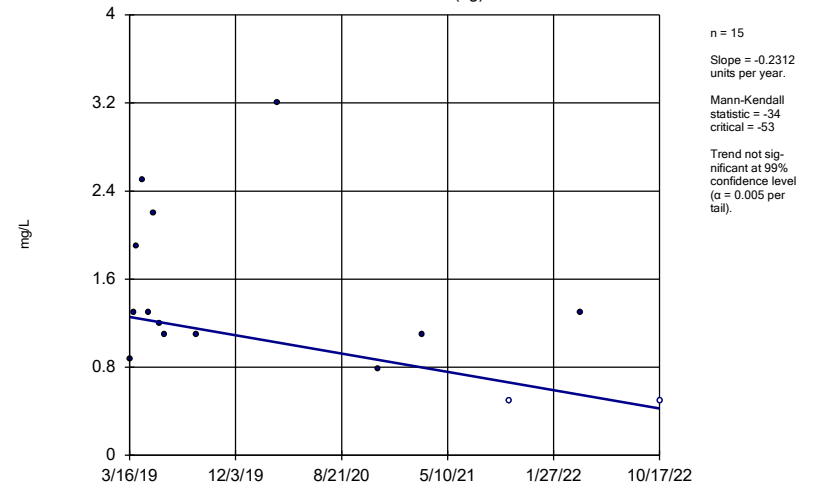
APMW-11 (bg)



Constituent: Sulfate Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

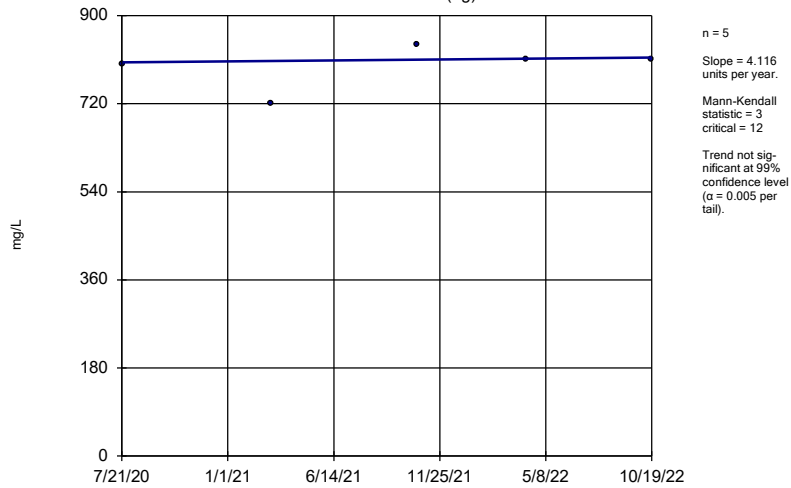
APMW-12 (bg)



Constituent: Sulfate Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

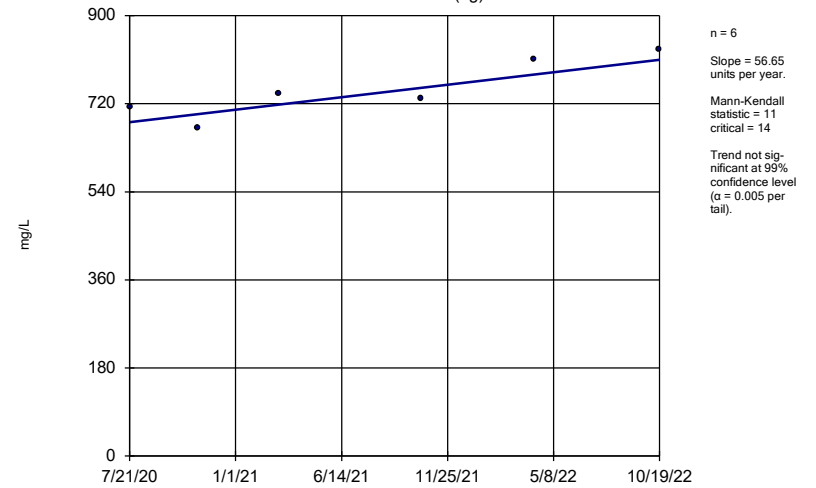
APMW-13 (bg)



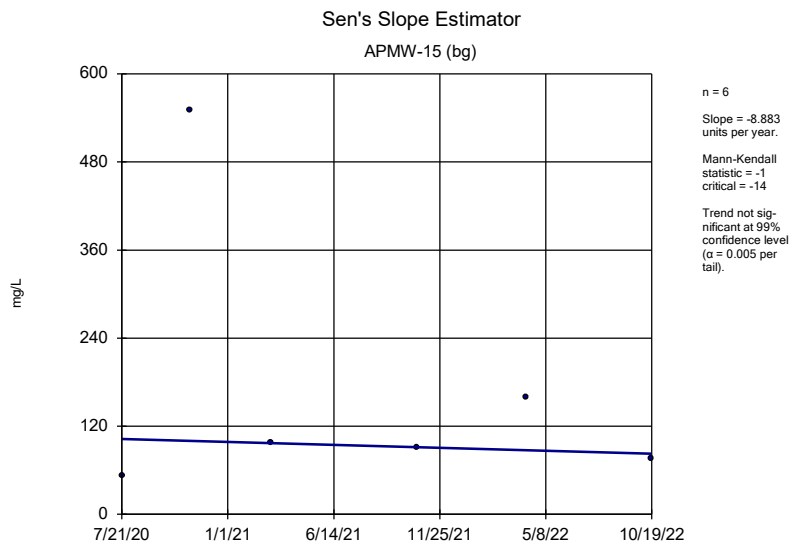
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

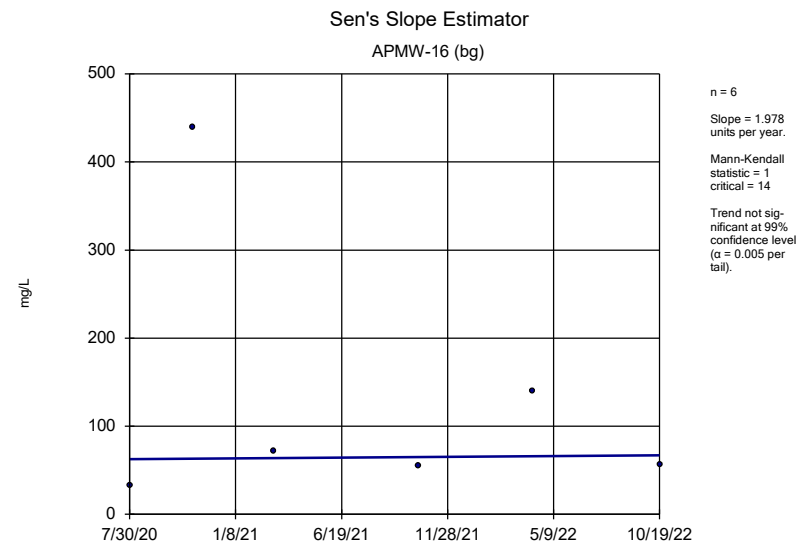
APMW-14 (bg)



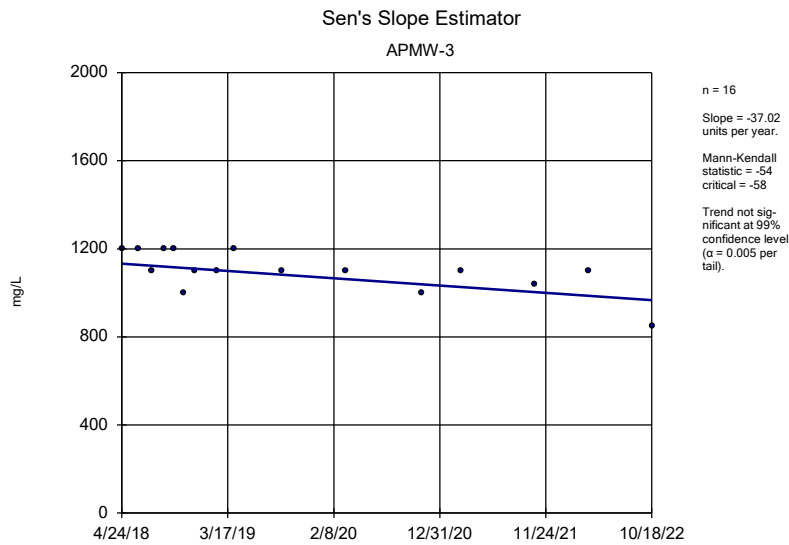
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR



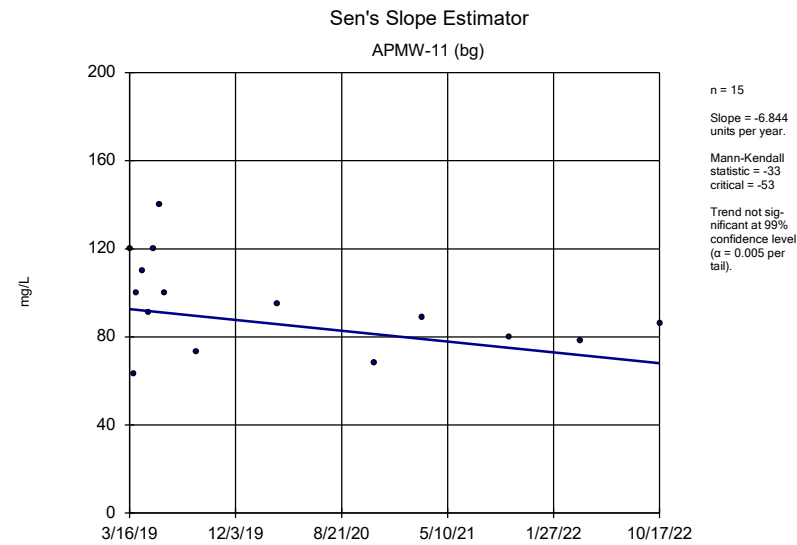
Constituent: Sulfate Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR



Constituent: Sulfate Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR



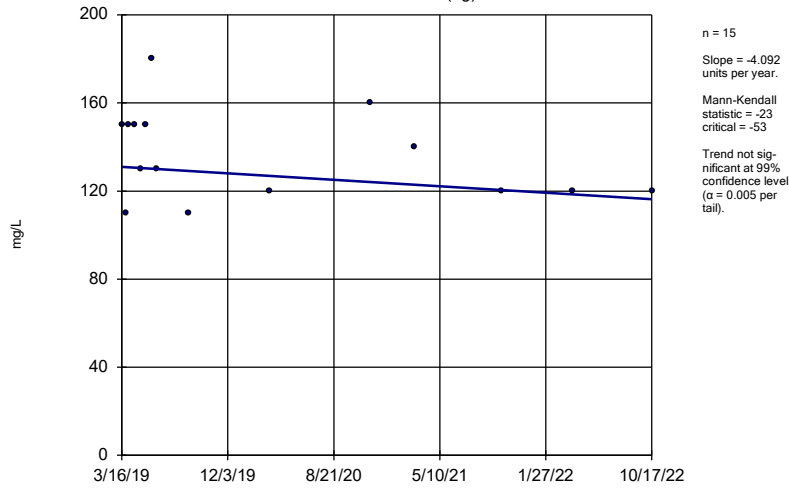
Constituent: Sulfate Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR



Constituent: Total Dissolved Solids Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

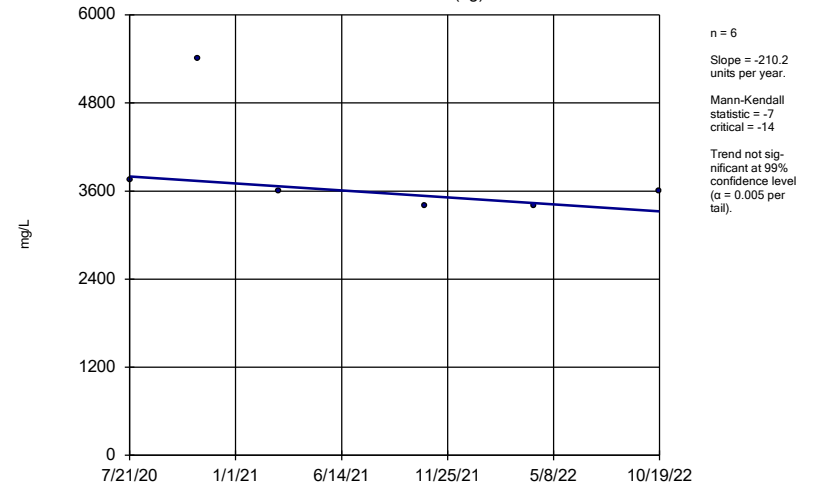
APMW-12 (bg)



Constituent: Total Dissolved Solids Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

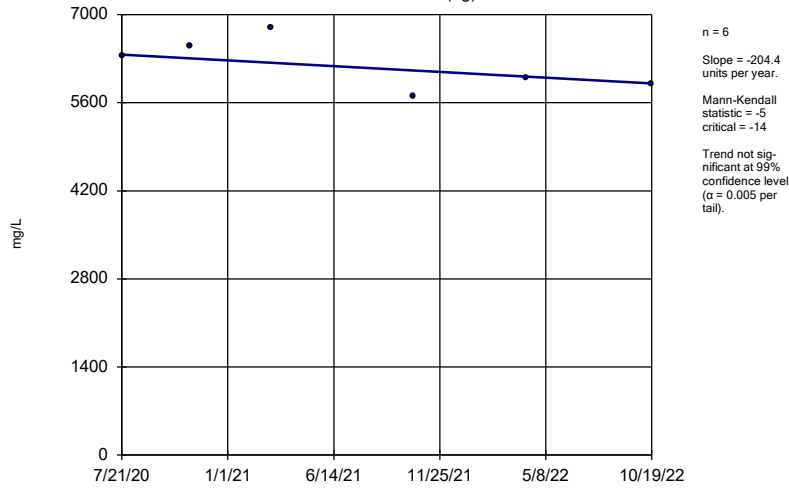
APMW-13 (bg)



Constituent: Total Dissolved Solids Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

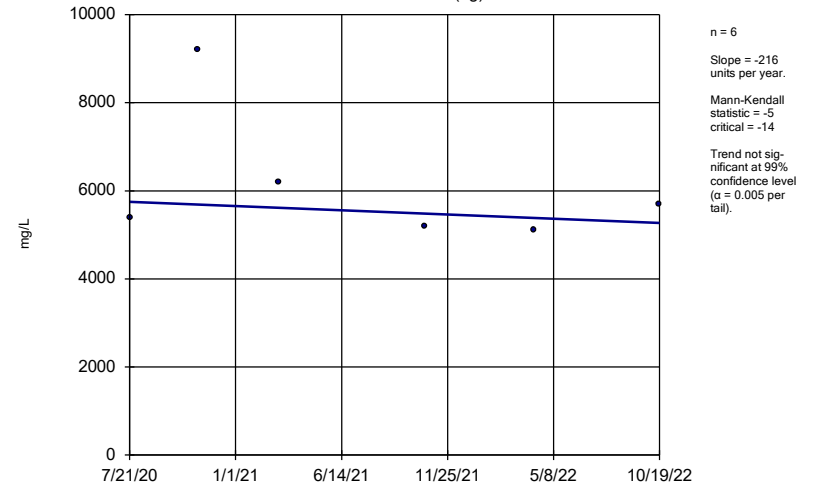
APMW-14 (bg)



Constituent: Total Dissolved Solids Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

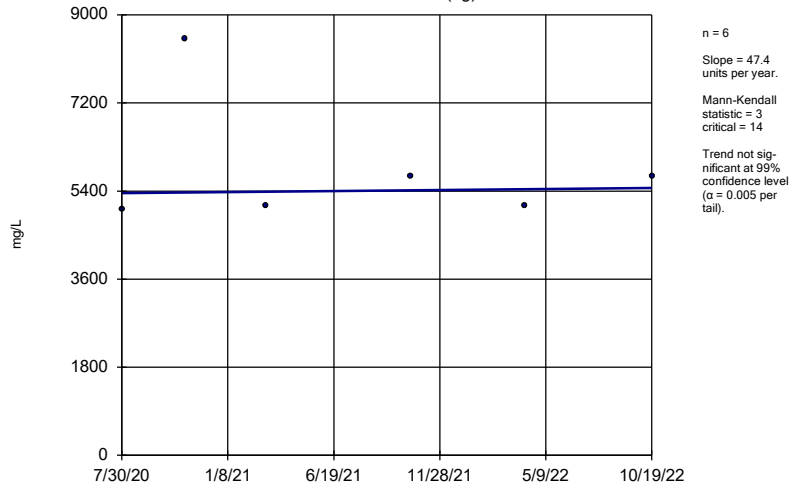
APMW-15 (bg)



Constituent: Total Dissolved Solids Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

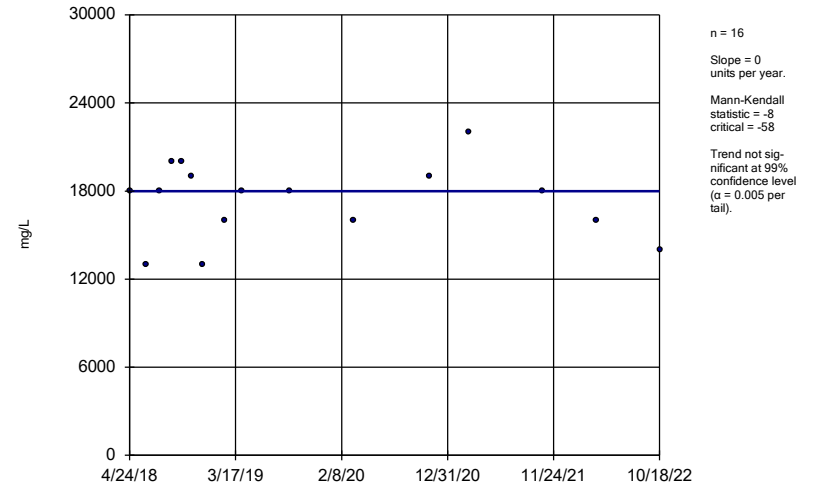
APMW-16 (bg)



Constituent: Total Dissolved Solids Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

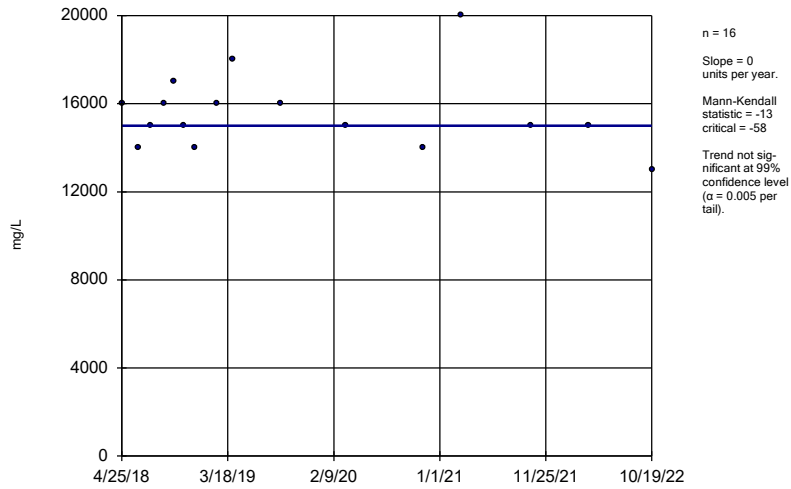
APMW-3



Constituent: Total Dissolved Solids Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-5



Constituent: Total Dissolved Solids Analysis Run 11/29/2022 2:54 PM View: A3 Trend Test
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 6/2/2023, 12:15 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a 56	n/a	n/a	98.21	n/a	n/a	0.05656	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.00496	n/a	n/a	n/a	n/a 56	n/a	n/a	39.29	n/a	n/a	0.05656	NP Inter(normality)
Barium (mg/L)	n/a	0.25	n/a	n/a	n/a	n/a 56	n/a	n/a	0	n/a	n/a	0.05656	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a 56	n/a	n/a	94.64	n/a	n/a	0.05656	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a 56	n/a	n/a	98.21	n/a	n/a	0.05656	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0044	n/a	n/a	n/a	n/a 52	n/a	n/a	88.46	n/a	n/a	0.06944	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a 56	n/a	n/a	89.29	n/a	n/a	0.05656	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	5.075	n/a	n/a	n/a	n/a 56	1.126	0.5543	3.571	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.54	n/a	n/a	n/a	n/a 56	n/a	n/a	26.79	n/a	n/a	0.05656	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 56	n/a	n/a	96.43	n/a	n/a	0.05656	NP Inter(NDs)
Lithium (mg/L)	n/a	0.0244	n/a	n/a	n/a	n/a 56	0.09745	0.02892	7.143	None	sqrt(x)	0.05	Inter
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a 52	n/a	n/a	96.15	n/a	n/a	0.06944	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	n/a 56	n/a	n/a	96.43	n/a	n/a	0.05656	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 56	n/a	n/a	100	n/a	n/a	0.05656	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 56	n/a	n/a	96.43	n/a	n/a	0.05656	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		5.08	5.08
Fluoride, Total (mg/L)	4		0.54	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.024	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 6/2/2023, 12:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	APMW-10	0.1132	0.07424	0.01	Yes	16	0.08956	0.03485	0	None	x^2	0.01	Param.
Arsenic (mg/L)	APMW-3	0.07939	0.05842	0.01	Yes	16	0.06891	0.01612	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01809	0.01567	0.01	Yes	16	0.01621	0.003276	0	None	x^5	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2363	0.2087	0.01	Yes	16	0.2225	0.02113	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.1831	0.1343	0.01	Yes	16	0.1587	0.03752	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-8	0.07751	0.04236	0.01	Yes	16	0.05994	0.02701	0	None	No	0.01	Param.
Barium (mg/L)	APMW-2	3.394	2.981	2	Yes	16	3.188	0.3181	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	10.75	6.836	5.08	Yes	16	8.794	3.01	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.05	17.72	5.08	Yes	16	18.89	1.792	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	6.94	5.322	5.08	Yes	16	6.131	1.243	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.479	5.576	5.08	Yes	16	6.528	1.463	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	8.92	6.67	5.08	Yes	16	7.419	0.9216	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-3	0.08484	0.06909	0.04	Yes	16	0.07697	0.01211	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-4	0.063	0.051	0.04	Yes	16	0.05656	0.009388	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-5	0.052	0.044	0.04	Yes	16	0.04831	0.009911	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.0581	0.05259	0.04	Yes	16	0.05534	0.004238	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-8	0.099	0.073	0.04	Yes	16	0.08916	0.02404	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-6R	0.4513	0.38	0.1	Yes	16	0.4156	0.05477	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 6/2/2023, 12:19 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	16	0.001963	0.00015	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	APMW-3	0.002	0.00059	0.006	No	16	0.001912	0.0003525	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	APMW-8	0.002	0.00066	0.006	No	16	0.001916	0.000335	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	APMW-10	0.1132	0.07424	0.01	Yes	16	0.08956	0.03485	0	None	x^2	0.01	Param.
Arsenic (mg/L)	APMW-1R	0.001877	0.0007917	0.01	No	16	0.001334	0.0008341	12.5	None	No	0.01	Param.
Arsenic (mg/L)	APMW-2	0.0012	0.00094	0.01	No	16	0.0009538	0.0001798	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	APMW-3	0.07939	0.05842	0.01	Yes	16	0.06891	0.01612	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01809	0.01567	0.01	Yes	16	0.01621	0.003276	0	None	x^5	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2363	0.2087	0.01	Yes	16	0.2225	0.02113	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.1831	0.1343	0.01	Yes	16	0.1587	0.03752	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-7	0.0021	0.00045	0.01	No	16	0.001201	0.0008877	0	None	No	0.01	NP (normality)
Arsenic (mg/L)	APMW-8	0.07751	0.04236	0.01	Yes	16	0.05994	0.02701	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-9	0.001417	0.001158	0.01	No	16	0.001288	0.0001996	0	None	No	0.01	Param.
Barium (mg/L)	APMW-10	0.3045	0.2394	2	No	16	0.2731	0.0516	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	APMW-1R	1.5	0.93	2	No	16	1.154	0.267	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-2	3.394	2.981	2	Yes	16	3.188	0.3181	0	None	No	0.01	Param.
Barium (mg/L)	APMW-3	0.11	0.097	2	No	16	0.1016	0.006386	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-4	0.5	0.22	2	No	16	0.3663	0.1338	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-5	0.11	0.093	2	No	16	0.1014	0.008016	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-6R	0.06383	0.05142	2	No	16	0.05763	0.009542	0	None	No	0.01	Param.
Barium (mg/L)	APMW-7	0.8575	0.6338	2	No	16	0.7456	0.1719	0	None	No	0.01	Param.
Barium (mg/L)	APMW-8	0.2265	0.2085	2	No	16	0.2175	0.0139	0	None	No	0.01	Param.
Barium (mg/L)	APMW-9	0.4758	0.433	2	No	16	0.4544	0.03286	0	None	No	0.01	Param.
Beryllium (mg/L)	APMW-10	0.0025	0.00076	0.004	No	16	0.002262	0.0006535	87.5	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-1R	0.0025	0.00019	0.004	No	16	0.002356	0.0005775	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-2	0.0025	0.00061	0.004	No	16	0.002095	0.0008749	81.25	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-3	0.0025	0.00018	0.004	No	16	0.002355	0.00058	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-6R	0.0025	0.00036	0.004	No	16	0.002366	0.000535	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-7	0.0025	0.00025	0.004	No	16	0.002359	0.0005625	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-8	0.0025	0.00038	0.004	No	16	0.002367	0.00053	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-9	0.0025	0.00049	0.004	No	16	0.002233	0.0007307	87.5	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-10	0.0025	0.00025	0.005	No	16	0.002359	0.0005625	93.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-1R	0.0025	0.00045	0.005	No	16	0.002372	0.0005125	93.75	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-6R	0.0025	0.00026	0.005	No	16	0.002212	0.0007859	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-1R	0.0032	0.002	0.1	No	14	0.002086	0.0003207	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-3	0.002	0.0014	0.1	No	14	0.001957	0.0001604	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-4	0.002225	0.001478	0.1	No	14	0.002021	0.0004458	35.71	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	APMW-5	0.0024	0.0014	0.1	No	14	0.001843	0.0003458	64.29	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-7	0.0022	0.0014	0.1	No	14	0.001771	0.0003197	50	None	No	0.01	NP (normality)
Chromium (mg/L)	APMW-8	0.0032	0.0014	0.1	No	14	0.002043	0.0003694	85.71	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-10	0.0025	0.00033	0.006	No	16	0.002064	0.0009376	81.25	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-1R	0.0025	0.00037	0.006	No	16	0.001436	0.001103	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	APMW-3	0.003145	0.00243	0.006	No	16	0.002788	0.00055	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-4	0.003773	0.003102	0.006	No	16	0.003438	0.0005149	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-5	0.0025	0.000079	0.006	No	16	0.002197	0.0008276	87.5	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-6R	0.003484	0.002078	0.006	No	16	0.002781	0.001081	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-7	0.0025	0.00024	0.006	No	16	0.001391	0.001147	50	None	No	0.01	NP (normality)
Cobalt (mg/L)	APMW-9	0.0025	0.000089	0.006	No	16	0.002198	0.0008244	87.5	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	APMW-10	3.426	2.616	5.08	No	16	3.021	0.6223	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	10.75	6.836	5.08	Yes	16	8.794	3.01	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.05	17.72	5.08	Yes	16	18.89	1.792	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	6.94	5.322	5.08	Yes	16	6.131	1.243	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-4	2.576	1.845	5.08	No	16	2.211	0.5612	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-5	4.586	3.78	5.08	No	16	4.183	0.6195	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-6R	3.33	2.798	5.08	No	16	2.947	0.7788	0	None	x^3	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.479	5.576	5.08	Yes	16	6.528	1.463	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-8	4.294	3.363	5.08	No	16	3.829	0.7154	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	8.92	6.67	5.08	Yes	16	7.419	0.9216	0	None	No	0.01	NP (normality)

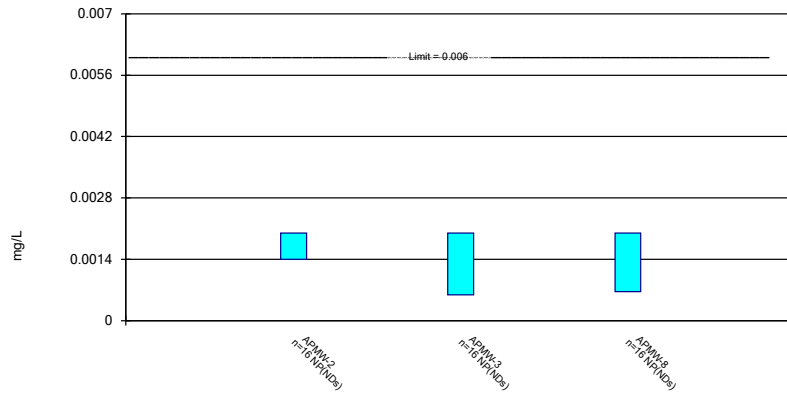
Confidence Intervals - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 6/2/2023, 12:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	APMW-10	0.7697	0.6126	4	No	17	0.6912	0.1254	0	None	No	0.01	Param.
Fluoride (mg/L)	APMW-1R	0.21	0.14	4	No	16	0.1906	0.0353	56.25	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-2	0.2	0.06	4	No	16	0.1369	0.0661	31.25	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-3	0.5142	0.2689	4	No	17	0.4153	0.2154	29.41	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	APMW-4	0.5308	0.4416	4	No	17	0.4388	0.1524	11.76	None	x^5	0.01	Param.
Fluoride (mg/L)	APMW-5	0.2	0.09	4	No	16	0.1441	0.05863	50	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-6R	0.29	0.2	4	No	16	0.6063	1.545	68.75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-7	0.26	0.11	4	No	17	0.3149	0.4218	17.65	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-8	1.1	0.74	4	No	17	1.799	3.664	0	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-9	0.2	0.06	4	No	16	0.1781	0.1837	37.5	None	No	0.01	NP (normality)
Lead (mg/L)	APMW-10	0.0011	0.0006	0.015	No	16	0.0008781	0.0002937	75	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-2	0.001	0.00022	0.015	No	16	0.0009513	0.000195	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-3	0.001	0.00048	0.015	No	16	0.0009319	0.0001864	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-4	0.001	0.00062	0.015	No	16	0.0009763	0.000095	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-5	0.0011	0.00041	0.015	No	16	0.0009294	0.0002141	81.25	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-6R	0.001	0.00032	0.015	No	16	0.0009575	0.00017	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-7	0.0019	0.001	0.015	No	16	0.001056	0.000225	93.75	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-8	0.0013	0.001	0.015	No	16	0.001056	0.0001632	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-9	0.001	0.00039	0.015	No	16	0.0009075	0.0002572	87.5	None	No	0.01	NP (NDs)
Lithium (mg/L)	APMW-10	0.0183	0.01043	0.04	No	16	0.01485	0.007243	0	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	APMW-1R	0.016	0.011	0.04	No	16	0.01413	0.004129	6.25	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-2	0.03	0.02375	0.04	No	16	0.02688	0.004801	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-3	0.08484	0.06909	0.04	Yes	16	0.07697	0.01211	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-4	0.063	0.051	0.04	Yes	16	0.05656	0.009388	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-5	0.052	0.044	0.04	Yes	16	0.04831	0.009911	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.0581	0.05259	0.04	Yes	16	0.05534	0.004238	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-7	0.004409	0.002624	0.04	No	15	0.003953	0.001365	20	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	APMW-8	0.099	0.073	0.04	Yes	16	0.08916	0.02404	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-9	0.00528	0.003209	0.04	No	15	0.004653	0.001606	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Mercury (mg/L)	APMW-10	0.0002	0.000085	0.002	No	14	0.0001918	0.00003074	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-1R	0.0002	0.00015	0.002	No	14	0.0001964	0.00001336	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-5	0.0002	0.000093	0.002	No	14	0.0001924	0.0000286	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-7	0.0002	0.00009	0.002	No	14	0.0001921	0.0000294	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-8	0.0002	0.000077	0.002	No	14	0.0001912	0.00003287	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-9	0.00035	0.0002	0.002	No	14	0.0002107	0.00004009	92.86	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-10	0.11	0.043	0.1	No	16	0.0815	0.02891	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-2	0.015	0.00079	0.1	No	16	0.01411	0.003552	93.75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-3	0.07037	0.06044	0.1	No	16	0.06541	0.007636	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-4	0.009753	0.006684	0.1	No	16	0.008219	0.002358	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-5	0.09755	0.06345	0.1	No	16	0.0805	0.02621	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-6R	0.4513	0.38	0.1	Yes	16	0.4156	0.05477	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-7	0.015	0.0062	0.1	No	16	0.01131	0.005076	62.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-8	0.147	0.08586	0.1	No	16	0.1164	0.04699	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-9	0.015	0.00093	0.1	No	16	0.01324	0.004811	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-10	0.005	0.00061	0.05	No	16	0.004144	0.001842	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-2	0.005	0.00072	0.05	No	16	0.004169	0.001788	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-3	0.005	0.0011	0.05	No	16	0.003386	0.001908	56.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-4	0.005	0.00068	0.05	No	16	0.004162	0.001803	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-5	0.005	0.00071	0.05	No	16	0.004182	0.001759	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-7	0.005	0.00046	0.05	No	16	0.004138	0.001853	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-8	0.005	0.0006	0.05	No	16	0.004157	0.001813	81.25	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-9	0.005	0.00081	0.05	No	16	0.004156	0.001818	81.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-10	0.001	0.00068	0.002	No	16	0.0009006	0.0002371	81.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-1R	0.001	0.00019	0.002	No	16	0.0009494	0.0002025	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-2	0.001	0.00084	0.002	No	16	0.00099	0.00004	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-3	0.001	0.00012	0.002	No	16	0.000945	0.00022	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-8	0.0013	0.00025	0.002	No	16	0.00092	0.0002874	81.25	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-9	0.0016	0.00024	0.002	No	16	0.00099	0.0002498	87.5	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

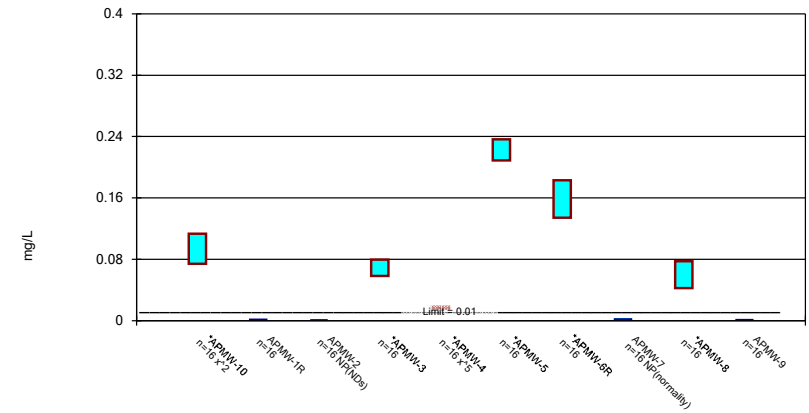
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 6/2/2023 12:17 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

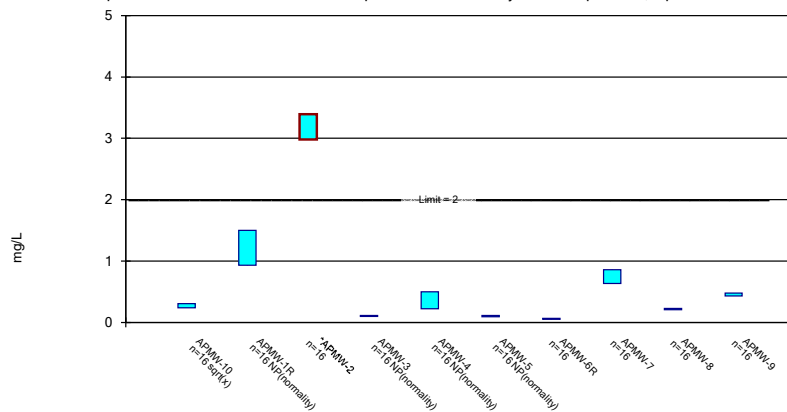
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 6/2/2023 12:17 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

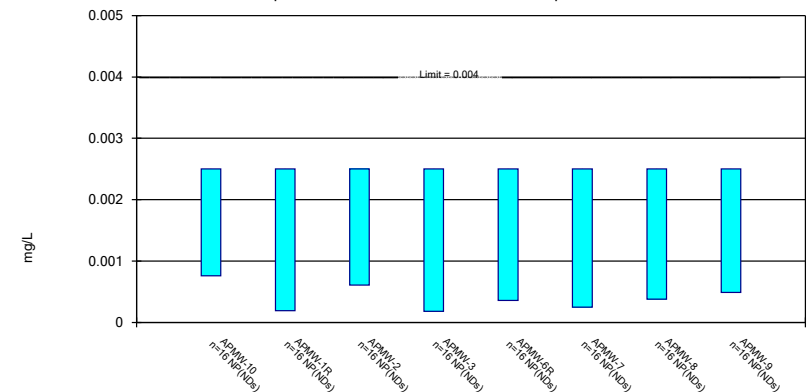
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 6/2/2023 12:18 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

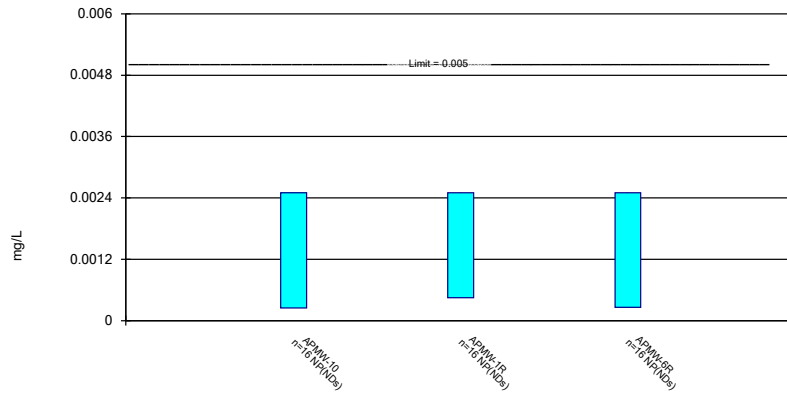
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 6/2/2023 12:18 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

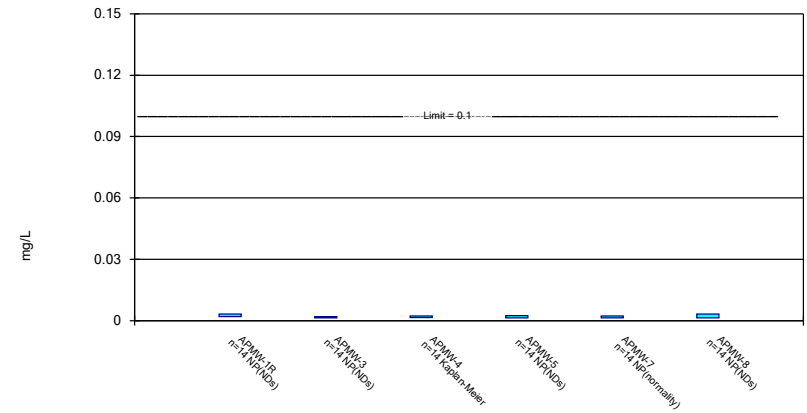
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 6/2/2023 12:18 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

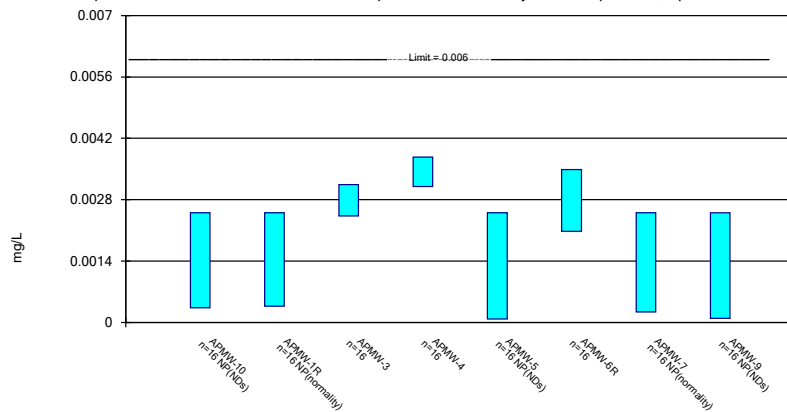
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 6/2/2023 12:18 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

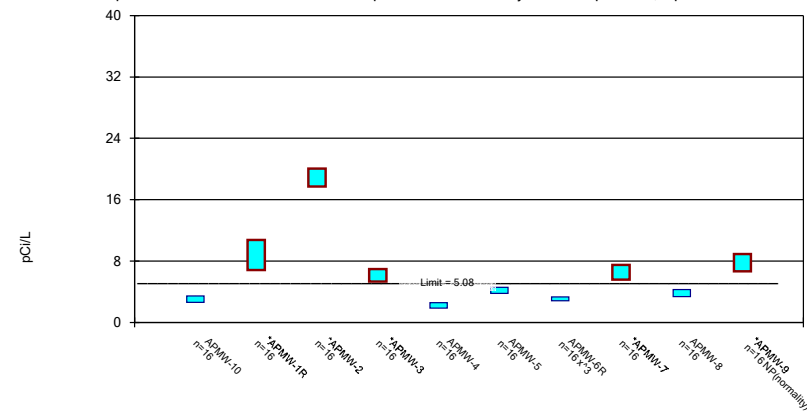
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/2/2023 12:18 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

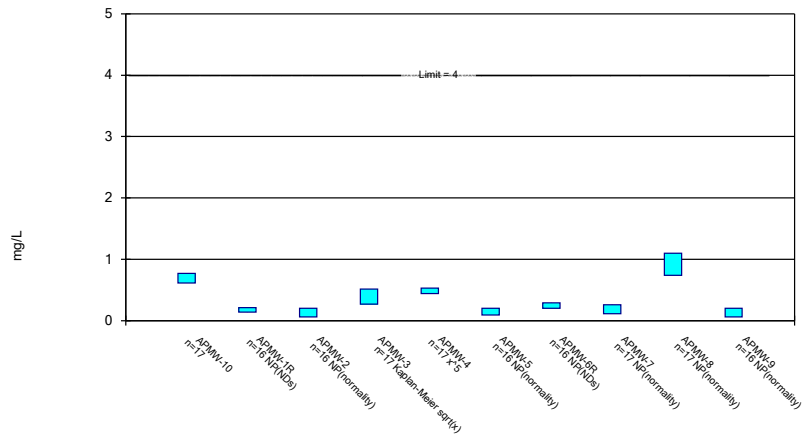
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/2/2023 12:18 PM View: Appendix IV - Confiden
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

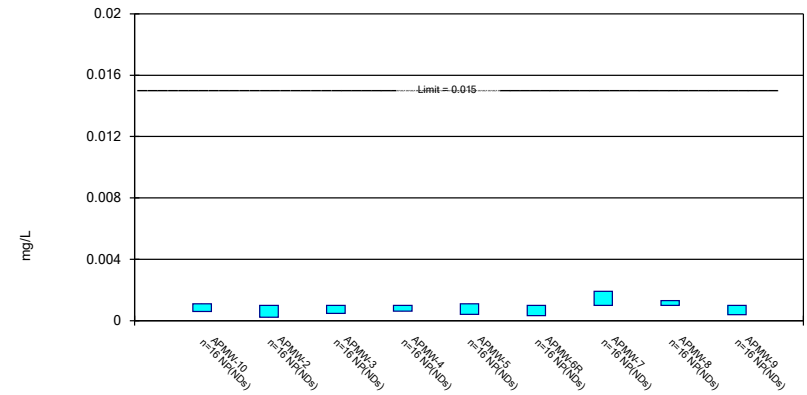
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 6/2/2023 12:18 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

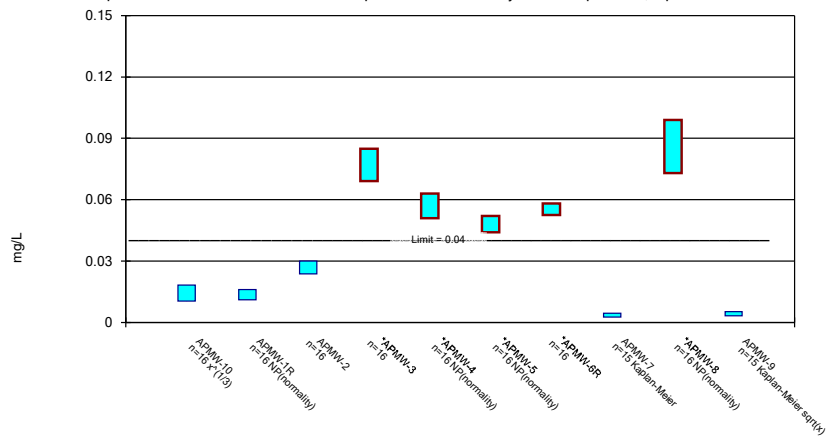
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 6/2/2023 12:18 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

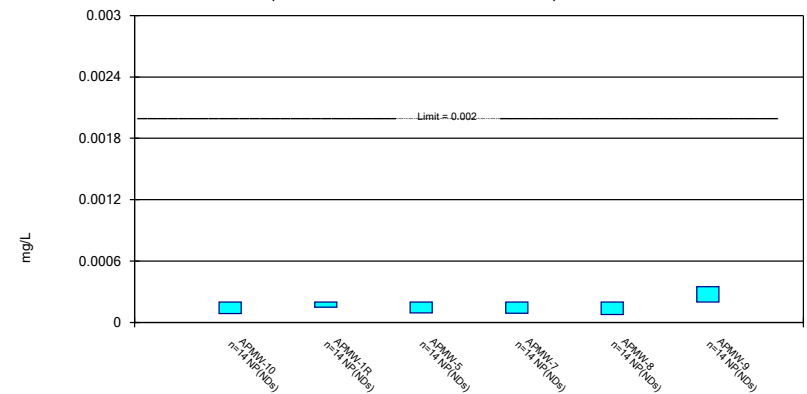
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/2/2023 12:18 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

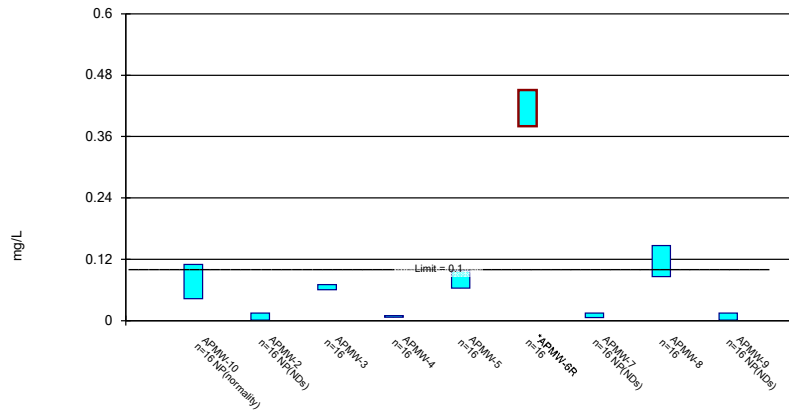
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 6/2/2023 12:18 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

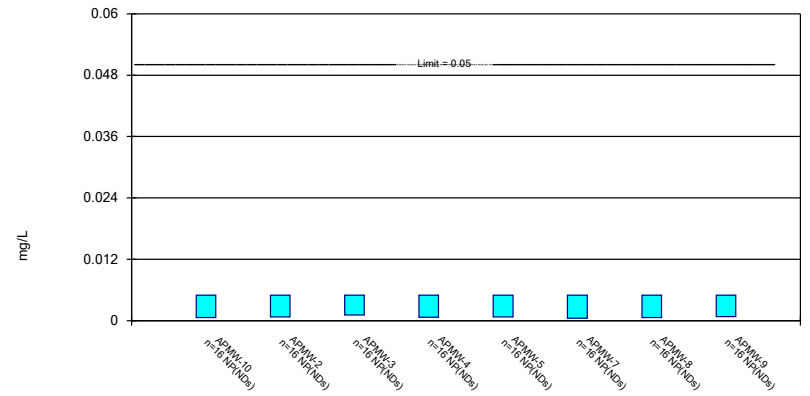
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 6/2/2023 12:18 PM View: Appendix IV - Confidence Intervals
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

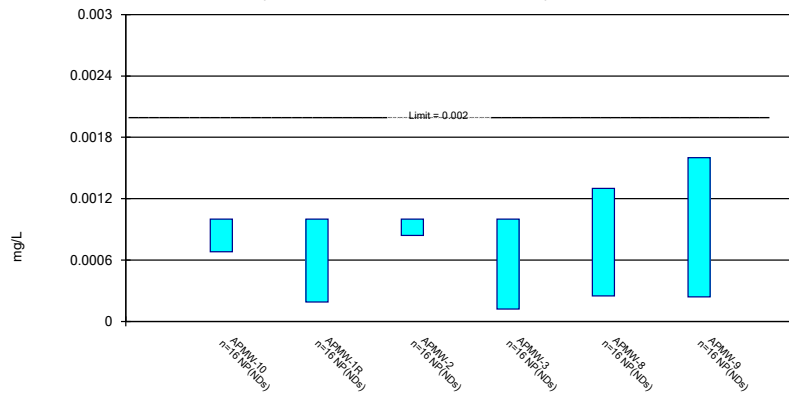
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 6/2/2023 12:18 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 6/2/2023 12:18 PM View: Appendix IV - Confidence Intervals
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 6/2/2023 12:19 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-8
4/24/2018	<0.002	<0.002	
4/25/2018			<0.002
6/14/2018	<0.002	<0.002	<0.002
7/23/2018			<0.002
7/24/2018	<0.002	<0.002	
9/1/2018	<0.002	<0.002	
9/6/2018			<0.002
10/1/2018	<0.002	<0.002	
10/2/2018			<0.002
11/1/2018			<0.002
11/2/2018	<0.002	<0.002	
12/6/2018			<0.002
12/7/2018	<0.002	<0.002	
2/13/2019	<0.002	<0.002	<0.002
8/8/2019	0.0014 (J)	<0.002	
8/9/2019			<0.002
8/30/2019	<0.002	<0.002	<0.002
3/16/2020	<0.002	<0.002	
3/17/2020			<0.002
11/5/2020	<0.002	<0.002	
11/9/2020			<0.002
3/8/2021	<0.002		
3/9/2021		<0.002	<0.002
10/12/2021	<0.002		
10/21/2021		<0.002	<0.002
4/5/2022	<0.002	<0.002	
4/6/2022			0.00066 (J)
10/17/2022	<0.002		
10/18/2022		0.00059 (J)	<0.002
Mean	0.001963	0.001912	0.001916
Std. Dev.	0.00015	0.0003525	0.000335
Upper Lim.	0.002	0.002	0.002
Lower Lim.	0.0014	0.00059	0.00066

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/2/2023 12:19 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	APMW-6R	APMW-7	APMW-8
4/24/2018			0.00077 (J)	0.084	0.019				
4/25/2018	0.13					0.24		0.0021	0.097
6/13/2018	0.11								
6/14/2018			<0.001	0.081	0.018	0.22		0.0015	0.089
7/23/2018	0.13								0.094
7/24/2018			<0.001	0.093	0.018	0.23		0.0015	
9/1/2018	0.12		<0.001	0.099	0.017	0.22			
9/6/2018								0.0013	0.082
10/1/2018			0.00094 (J)	0.077	0.017				
10/2/2018	0.11					0.21		0.0014	0.075
11/1/2018	0.11								0.081
11/2/2018			0.0012 (J)	0.067	0.018	0.26		0.0028	
12/6/2018	0.12				0.018	0.23		0.0033	0.079
12/7/2018			<0.001	0.063					
2/13/2019	0.098		<0.001	0.065	0.019	0.23		0.0012 (J)	0.077
3/16/2019		0.0021							
3/27/2019		0.0019							
4/3/2019		0.0019							
4/5/2019							0.13 (D)		
4/15/2019		0.0025					0.13		
5/2/2019		0.0019					0.089		
5/14/2019		0.0027					0.13		
5/28/2019		<0.001							
5/29/2019							0.12		
6/12/2019		0.0023					0.13		
6/19/2019							0.16		
6/25/2019							0.13		
8/8/2019	0.11	0.0012	0.00035 (J)	0.074					
8/9/2019					0.018	0.24	0.16	0.00053 (J)	0.052
8/30/2019	0.079	0.0011	<0.001	0.07	0.016	0.2	0.17	0.00044 (J)	0.05
3/16/2020		0.00085 (J)	<0.001	0.071	0.017				
3/17/2020	0.093					0.21	0.18	0.00053 (J)	0.043
11/4/2020		0.00069 (J)							
11/5/2020			<0.001	0.064					
11/9/2020					0.018	0.26			0.036
11/10/2020								0.00058 (J)	
11/20/2020	0.072						0.18		
3/8/2021	0.047	0.0005 (J)	<0.001						
3/9/2021				0.042	0.016	0.21	0.21	0.00045 (J)	0.035
10/12/2021	0.028	<0.001	<0.001			0.21		0.00044 (J)	
10/14/2021					0.012				
10/20/2021							0.2 (D)		
10/21/2021				0.0445 (D)					0.026 (D)
4/4/2022		0.0004 (J)							
4/5/2022	0.039		<0.001	0.047					
4/6/2022					0.011	0.21		0.00048 (J)	0.023
4/7/2022							0.21		
10/17/2022		0.00031 (J)	<0.001						
10/18/2022	0.037			0.061				0.00066 (J)	0.02
10/19/2022					0.0073	0.18	0.21		
Mean	0.08956	0.001334	0.0009538	0.06891	0.01621	0.2225	0.1587	0.001201	0.05994
Std. Dev.	0.03485	0.0008341	0.0001798	0.01612	0.003276	0.02113	0.03752	0.0008877	0.02701

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/2/2023 12:19 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	APMW-6R	APMW-7	APMW-8
Upper Lim.	0.1132	0.001877	0.0012	0.07939	0.01809	0.2363	0.1831	0.0021	0.07751
Lower Lim.	0.07424	0.0007917	0.00094	0.05842	0.01567	0.2087	0.1343	0.00045	0.04236

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/2/2023 12:19 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-9
4/24/2018	
4/25/2018	0.0016
6/13/2018	0.001 (J)
6/14/2018	
7/23/2018	0.0011 (J)
7/24/2018	
9/1/2018	
9/6/2018	0.0011 (J)
10/1/2018	
10/2/2018	0.0015
11/1/2018	0.0014
11/2/2018	
12/6/2018	0.0016
12/7/2018	
2/13/2019	0.0013
3/16/2019	
3/27/2019	
4/3/2019	
4/5/2019	
4/15/2019	
5/2/2019	
5/14/2019	
5/28/2019	
5/29/2019	
6/12/2019	
6/19/2019	
6/25/2019	
8/8/2019	0.0012
8/9/2019	
8/30/2019	0.0011
3/16/2020	
3/17/2020	0.001
11/4/2020	
11/5/2020	
11/9/2020	
11/10/2020	
11/20/2020	0.0012
3/8/2021	0.0015
3/9/2021	
10/12/2021	0.0013
10/14/2021	
10/20/2021	
10/21/2021	
4/4/2022	
4/5/2022	
4/6/2022	0.0013
4/7/2022	
10/17/2022	
10/18/2022	0.0014
10/19/2022	
Mean	0.001288
Std. Dev.	0.0001996

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/2/2023 12:19 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-9
Upper Lim.	0.001417
Lower Lim.	0.001158

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/2/2023 12:19 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	APMW-6R	APMW-7	APMW-8
4/24/2018			2.8	0.097	0.46				
4/25/2018	0.26					0.093		0.66	0.2
6/13/2018	0.3								
6/14/2018			3.1	0.11	0.5	0.11		0.74	0.22
7/23/2018	0.24								0.2
7/24/2018			3	0.1	0.54	0.093		0.72	
9/1/2018	0.25		2.9	0.12	0.53	0.1			
9/6/2018								0.79	0.22
10/1/2018			4	0.1	0.5				
10/2/2018	0.23					0.1		0.93	0.21
11/1/2018	0.23								0.21
11/2/2018			3.1	0.1	0.5	0.12		1.1	
12/6/2018	0.24					0.43	0.1	0.7	0.22
12/7/2018			3.3	0.11					
2/13/2019	0.26		2.9	0.1	0.45	0.1		0.59	0.23
3/16/2019		0.89							
3/27/2019		1.1							
4/3/2019		1.1							
4/5/2019							0.071 (D)		
4/15/2019		0.98					0.067		
5/2/2019		0.94					0.071		
5/14/2019		1					0.068		
5/28/2019		1							
5/29/2019							0.067 (J)		
6/12/2019		0.91					0.064 (J)		
6/19/2019							0.059 (J)		
6/25/2019							0.057 (J)		
8/8/2019	0.24	0.93	3.2	0.1					
8/9/2019					0.33	0.11	0.058	0.76	0.2
8/30/2019	0.2	0.91	2.7	0.1	0.29	0.086	0.052	0.56	0.2
3/16/2020		1.2	3.2	0.1	0.27				
3/17/2020	0.25					0.1	0.05	0.53	0.21
11/4/2020		1.4							
11/5/2020			3.2	0.1					
11/9/2020					0.23	0.1			0.23
11/10/2020								0.77	
11/20/2020	0.27						0.048		
3/8/2021	0.32	1.3	3.3						
3/9/2021				0.1	0.22	0.1	0.055	0.53	0.22
10/12/2021	0.34	1.5	3.3			0.1		0.97	
10/14/2021					0.21				
10/20/2021							0.048		
10/21/2021				0.095					0.23
4/4/2022		1.6							
4/5/2022	0.37		3.6	0.098					
4/6/2022					0.17	0.11		0.61	0.24
4/7/2022							0.043 (J)		
10/17/2022		1.7	3.4						
10/18/2022	0.37			0.096				0.97	0.24
10/19/2022					0.23	0.1	0.044		
Mean	0.2731	1.154	3.188	0.1016	0.3663	0.1014	0.05763	0.7456	0.2175
Std. Dev.	0.0516	0.267	0.3181	0.006386	0.1338	0.008016	0.009542	0.1719	0.0139

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/2/2023 12:19 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	APMW-6R	APMW-7	APMW-8
Upper Lim.	0.3045	1.5	3.394	0.11	0.5	0.11	0.06383	0.8575	0.2265
Lower Lim.	0.2394	0.93	2.981	0.097	0.22	0.093	0.05142	0.6338	0.2085

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/2/2023 12:19 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-9
4/24/2018	
4/25/2018	0.42
6/13/2018	0.45
6/14/2018	
7/23/2018	0.42
7/24/2018	
9/1/2018	
9/6/2018	0.45
10/1/2018	
10/2/2018	0.43
11/1/2018	0.43
11/2/2018	
12/6/2018	0.44
12/7/2018	
2/13/2019	0.44
3/16/2019	
3/27/2019	
4/3/2019	
4/5/2019	
4/15/2019	
5/2/2019	
5/14/2019	
5/28/2019	
5/29/2019	
6/12/2019	
6/19/2019	
6/25/2019	
8/8/2019	0.42
8/9/2019	
8/30/2019	0.42
3/16/2020	
3/17/2020	0.49
11/4/2020	
11/5/2020	
11/9/2020	
11/10/2020	
11/20/2020	0.48
3/8/2021	0.47
3/9/2021	
10/12/2021	0.49
10/14/2021	
10/20/2021	
10/21/2021	
4/4/2022	
4/5/2022	
4/6/2022	0.52
4/7/2022	
10/17/2022	
10/18/2022	0.5
10/19/2022	
Mean	0.4544
Std. Dev.	0.03286

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/2/2023 12:19 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-9
Upper Lim.	0.4758
Lower Lim.	0.433

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 6/2/2023 12:19 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	APMW-8	APMW-9
4/24/2018			<0.0025	<0.0025				
4/25/2018	<0.0025					<0.0025	<0.0025	<0.0025
6/13/2018	<0.0025							<0.0025
6/14/2018			<0.0025	<0.0025		<0.0025	<0.0025	
7/23/2018	<0.0025						<0.0025	<0.0025
7/24/2018			<0.0025	<0.0025		<0.0025		
9/1/2018	<0.0025		<0.0025	<0.0025				
9/6/2018						<0.0025	<0.0025	<0.0025
10/1/2018			<0.0025	<0.0025				
10/2/2018	<0.0025					<0.0025	<0.0025	<0.0025
11/1/2018	<0.0025						<0.0025	<0.0025
11/2/2018			<0.0025	<0.0025		<0.0025		
12/6/2018	<0.0025					<0.0025	<0.0025	<0.0025
12/7/2018			<0.0025	<0.0025				
2/13/2019	<0.0025		<0.0025	<0.0025		<0.0025	<0.0025	<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		<0.0025			<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	0.00061 (J)	<0.0025				<0.0025
8/9/2019					<0.0025	<0.0025	<0.0025	
8/30/2019	0.00043 (J)	0.00019 (J)	0.00023 (J)	0.00018 (J)	0.00036 (J)	0.00025 (J)	0.00038 (J)	0.00049 (J)
3/16/2020		<0.0025	<0.0025	<0.0025				
3/17/2020	<0.0025				<0.0025	<0.0025	<0.0025	<0.0025
11/4/2020		<0.0025						
11/5/2020			<0.0025	<0.0025				
11/9/2020							<0.0025	
11/10/2020						<0.0025		
11/20/2020	<0.0025				<0.0025			<0.0025
3/8/2021	0.00076 (J)	<0.0025	0.00018 (J)					0.00024 (J)
3/9/2021				<0.0025	<0.0025	<0.0025	<0.0025	
10/12/2021	<0.0025	<0.0025	<0.0025			<0.0025		<0.0025
10/20/2021					<0.0025			
10/21/2021				<0.0025			<0.0025	
4/4/2022		<0.0025						
4/5/2022	<0.0025		<0.0025	<0.0025				
4/6/2022						<0.0025	<0.0025	<0.0025
4/7/2022					<0.0025			
10/17/2022		<0.0025	<0.0025					
10/18/2022	<0.0025			<0.0025		<0.0025	<0.0025	<0.0025
10/19/2022					<0.0025			
Mean	0.002262	0.002356	0.002095	0.002355	0.002366	0.002359	0.002367	0.002233
Std. Dev.	0.0006535	0.0005775	0.0008749	0.00058	0.000535	0.0005625	0.00053	0.0007307
Upper Lim.	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 6/2/2023 12:19 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	APMW-8	APMW-9
Lower Lim.	0.00076	0.00019	0.00061	0.00018	0.00036	0.00025	0.00038	0.00049

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 6/2/2023 12:19 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
10/17/2022		<0.0025	
10/18/2022	<0.0025		
10/19/2022			<0.0025
Mean	0.002359	0.002372	0.002212
Std. Dev.	0.0005625	0.0005125	0.0007859
Upper Lim.	0.0025	0.0025	0.0025
Lower Lim.	0.00025	0.00045	0.00026

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 6/2/2023 12:19 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
10/17/2022	<0.002					
10/18/2022		<0.002			<0.002	<0.002
10/19/2022			0.0021	<0.002		
Mean	0.002086	0.001957	0.002021	0.001843	0.001771	0.002043
Std. Dev.	0.0003207	0.0001604	0.0004458	0.0003458	0.0003197	0.0003694
Upper Lim.	0.0032	0.002	0.002225	0.0024	0.0022	0.0032
Lower Lim.	0.002	0.0014	0.001478	0.0014	0.0014	0.0014

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/2/2023 12:19 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	APMW-7	APMW-9
4/24/2018			0.0026	0.0033				
4/25/2018	<0.0025				<0.0025		<0.0025	<0.0025
6/13/2018	<0.0025							<0.0025
6/14/2018			0.0023 (J)	0.0032	<0.0025		<0.0025	
7/23/2018	<0.0025							<0.0025
7/24/2018			0.0026	0.0036	<0.0025		<0.0025	
9/1/2018	<0.0025		0.0023 (J)	0.0039	<0.0025			
9/6/2018							0.00043 (J)	<0.0025
10/1/2018			0.0028	0.0029				
10/2/2018	<0.0025				<0.0025		<0.0025	<0.0025
11/1/2018	<0.0025							<0.0025
11/2/2018			0.0027	0.0034	<0.0025		<0.0025	
12/6/2018	<0.0025			0.0032	<0.0025		<0.0025	<0.0025
12/7/2018			0.0028					
2/13/2019	<0.0025		0.0028	0.0043	<0.0025		<0.0025	<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					8.4E-05 (J)
8/9/2019				0.0034	7.5E-05 (J)	0.0022	0.00025 (J)	
8/30/2019	8.2E-05 (J)	0.00017 (J)	0.0025	0.0034	7.9E-05 (J)	0.0039	0.00023 (J)	8.9E-05 (J)
3/16/2020		<0.0025	0.0022	0.0039				
3/17/2020	<0.0025				<0.0025	0.0029	0.00024 (J)	<0.0025
11/4/2020		<0.0025						
11/5/2020			0.003					
11/9/2020				0.0037	<0.0025			
11/10/2020							0.00024 (J)	
11/20/2020	<0.0025					0.0024 (J)		<0.0025
3/8/2021	0.00033 (J)	<0.0025						<0.0025
3/9/2021			0.0034	0.0041	<0.0025	0.0017 (J)	0.00025 (J)	
10/12/2021	<0.0025	<0.0025			<0.0025		0.00028 (J)	<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		<0.0025	<0.0025
4/7/2022						0.0028		
10/17/2022		<0.0025						
10/18/2022	<0.0025		0.003				0.00033 (J)	<0.0025
10/19/2022				0.0021 (J)	<0.0025	0.0028		
Mean	0.002064	0.001436	0.002788	0.003438	0.002197	0.002781	0.001391	0.002198
Std. Dev.	0.0009376	0.001103	0.00055	0.0005149	0.0008276	0.001081	0.001147	0.0008244

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/2/2023 12:19 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	APMW-7	APMW-9
Upper Lim.	0.0025	0.0025	0.003145	0.003773	0.0025	0.003484	0.0025	0.0025
Lower Lim.	0.00033	0.00037	0.00243	0.003102	7.9E-05	0.002078	0.00024	8.9E-05

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/2/2023 12:19 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	APMW-6R	APMW-7	APMW-8
4/24/2018			21.8	5.84	2.4				
4/25/2018	2.66					3.67		5.8	3.26
6/13/2018	2.91								
6/14/2018			20.9	6.37	2.5	4.18		5.94	3.41
7/23/2018	3.49								4.02
7/24/2018			19.2	7.22	3.01	4.95		6.56	
9/1/2018	3.15		17.5	5.46	2.3	4.44			
9/6/2018								7.39	3.86
10/1/2018			19.9	8.54	3.49				
10/2/2018	3.38					4.79		8.19	4.63
11/1/2018	2.19								3.37
11/2/2018			17.4	6.02	1.94	4		5.87	
12/6/2018	2.69					2.68		6.64	3.92
12/7/2018			18.5	6.26					
2/13/2019	2.97		19.2	6.67	2.05	4.53		6.19	3.66
3/16/2019		5.87							
3/27/2019		6.56							
4/3/2019		7.03							
4/5/2019							2.85		
4/15/2019		6.75					3.24		
5/2/2019		6.82					3		
5/14/2019		6.96					3.2		
5/28/2019		4.12							
5/29/2019							2.88		
6/12/2019		8.8					3.04		
6/19/2019							3.59		
6/25/2019							3.61		
8/8/2019	2.16	7.52	18.7	6.41					
8/9/2019					2.09	3.81	3.14	6.86	3.52
8/30/2019	2.19	7.98	16.5	5.45	1.24	2.82	2.52	6.63	3.96
3/16/2020		10.6	18.8	6.5	1.71				
3/17/2020	2.94					4.23	3.16	5.37	3.43
11/4/2020		8.99							
11/5/2020			15.3	5.33					
11/9/2020					2	3.42			2.55
11/10/2020								6.91	
11/20/2020	3.47						3.32		
3/8/2021	2.86	14.2	21.4						
3/9/2021				2.68	2.08	4.01	0.234 (U)	2.66	3.52
10/12/2021	3.57	12	20.6			3.74		7.77	
10/14/2021					2.56				
10/20/2021							2.8		
10/21/2021				5.6					4.05
4/4/2022		12.5							
4/5/2022	3.1		17.4	7.45					
4/6/2022					1.71	5.09		6.15	4.27
4/7/2022							3.12		
10/17/2022		14	19.1						
10/18/2022	4.61			6.3				9.51	5.83
10/19/2022					1.61	4.24	3.45		
Mean	3.021	8.794	18.89	6.131	2.211	4.183	2.947	6.528	3.829
Std. Dev.	0.6223	3.01	1.792	1.243	0.5612	0.6195	0.7788	1.463	0.7154

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/2/2023 12:19 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	APMW-6R	APMW-7	APMW-8
Upper Lim.	3.426	10.75	20.05	6.94	2.576	4.586	3.33	7.479	4.294
Lower Lim.	2.616	6.836	17.72	5.322	1.845	3.78	2.798	5.576	3.363

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/2/2023 12:19 PM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-9
4/24/2018	
4/25/2018	6.49
6/13/2018	6.43
6/14/2018	
7/23/2018	6.82
7/24/2018	
9/1/2018	
9/6/2018	7.4
10/1/2018	
10/2/2018	7.43
11/1/2018	6.67
11/2/2018	
12/6/2018	6.92
12/7/2018	
2/13/2019	6.91
3/16/2019	
3/27/2019	
4/3/2019	
4/5/2019	
4/15/2019	
5/2/2019	
5/14/2019	
5/28/2019	
5/29/2019	
6/12/2019	
6/19/2019	
6/25/2019	
8/8/2019	6.71
8/9/2019	
8/30/2019	7.32
3/16/2020	
3/17/2020	7.36
11/4/2020	
11/5/2020	
11/9/2020	
11/10/2020	
11/20/2020	8.11
3/8/2021	9.26
3/9/2021	
10/12/2021	8.92
10/14/2021	
10/20/2021	
10/21/2021	
4/4/2022	
4/5/2022	
4/6/2022	6.93
4/7/2022	
10/17/2022	
10/18/2022	9.03
10/19/2022	
Mean	7.419
Std. Dev.	0.9216

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/2/2023 12:19 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

APMW-9

Upper Lim. 8.92
Lower Lim. 6.67

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 6/2/2023 12:19 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	APMW-6R	APMW-7	APMW-8
4/24/2018			0.06 (J)	0.33	0.52				
4/25/2018	0.69					0.09 (J)		0.11	1
6/13/2018	0.64								
6/14/2018			0.06 (J)	0.37	0.51	0.09 (J)		0.12	1
7/23/2018	0.76								1
7/24/2018			0.07 (J)	0.42	0.52	0.09 (J)		0.12	
9/1/2018	0.81		0.08 (J)	0.45	0.54	0.1			
9/6/2018								0.13	1.1
10/1/2018			0.07 (J)	0.39	0.54				
10/2/2018	0.78					0.09 (J)		0.13	1
11/1/2018	0.88								1.1
11/2/2018			0.08 (J)	0.42	0.58	0.11		0.14	
12/6/2018	0.75					0.51	1.4 (o)	0.13	0.98
12/7/2018			4.3 (o)	0.64					
2/13/2019	0.72		0.05 (J)	0.35	0.48	0.07 (J)		0.1	0.98
3/16/2019		<0.2							
3/27/2019		<0.2							
4/3/2019		<0.2							
4/4/2019	0.63					<0.2		<0.2	0.58 (J)
4/5/2019			0.14 (J)	0.7 (J)	0.31 (J)		<0.2 (D)		
4/15/2019		0.14 (J)					<0.2		
5/2/2019		0.13 (J)					<0.2		
5/14/2019		<0.2					<0.2		
5/28/2019		0.16 (J)							
5/29/2019							<0.2		
6/12/2019		<0.2					<0.2		
6/19/2019							<0.2		
6/25/2019							0.32 (J)		
8/8/2019	0.58	0.21 (J)	0.19 (J)	0.8 (J)					
8/9/2019					0.51	<0.2	<0.2	0.22 (J)	0.9 (J)
8/30/2019	0.5	0.21 (J)	0.17 (J)	<0.2	0.54 (J)	<0.2	0.27 (J)	0.41 (J)	0.85 (J)
3/16/2020		<0.2	<0.2	<0.2	<0.2				
3/17/2020	0.38					<0.2	<0.2	1.6	0.52 (J)
11/4/2020		<0.2							
11/5/2020			<0.2	<0.2					
11/9/2020					<0.2	<0.2			0.74 (J)
11/10/2020								<0.2	
11/20/2020	0.81						<0.2		
3/8/2021	0.66	<0.2	<0.2						
3/9/2021				0.87 (J)	0.55 (J)	<0.2	<0.2	0.26 (J)	1.1 (J)
10/12/2021	0.66	0.27 (J)	0.22 (J)			<0.2		<0.2	
10/14/2021					0.5 (J)				
10/20/2021							0.29 (J)		
10/21/2021				<0.2					1 (J)
4/4/2022		0.13 (J)							
4/5/2022	0.82		<0.2	<0.2					
4/6/2022					0.36 (J)	<0.2		1.2 (J)	16
4/7/2022							6.4		
10/17/2022		<0.2	<0.2						
10/18/2022	0.68			0.32 (J)				0.084 (J)	0.73
10/19/2022					0.29	0.065 (J)	0.22		
Mean	0.6912	0.1906	0.1369	0.4153	0.4388	0.1441	0.6063	0.3149	1.799

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 6/2/2023 12:19 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	APMW-6R	APMW-7	APMW-8
Std. Dev.	0.1254	0.0353	0.0661	0.2154	0.1524	0.05863	1.545	0.4218	3.664
Upper Lim.	0.7697	0.21	0.2	0.5142	0.5308	0.2	0.29	0.26	1.1
Lower Lim.	0.6126	0.14	0.06	0.2689	0.4416	0.09	0.2	0.11	0.74

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 6/2/2023 12:19 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-9
4/24/2018	
4/25/2018	0.06 (J)
6/13/2018	0.06 (J)
6/14/2018	
7/23/2018	0.06 (J)
7/24/2018	
9/1/2018	
9/6/2018	0.06 (J)
10/1/2018	
10/2/2018	0.07 (J)
11/1/2018	0.07 (J)
11/2/2018	
12/6/2018	0.21 (o)
12/7/2018	
2/13/2019	0.07 (J)
3/16/2019	
3/27/2019	
4/3/2019	
4/4/2019	<0.2
4/5/2019	
4/15/2019	
5/2/2019	
5/14/2019	
5/28/2019	
5/29/2019	
6/12/2019	
6/19/2019	
6/25/2019	
8/8/2019	0.2 (J)
8/9/2019	
8/30/2019	0.18 (J)
3/16/2020	
3/17/2020	<0.2
11/4/2020	
11/5/2020	
11/9/2020	
11/10/2020	
11/20/2020	<0.2
3/8/2021	<0.2
3/9/2021	
10/12/2021	<0.2
10/14/2021	
10/20/2021	
10/21/2021	
4/4/2022	
4/5/2022	
4/6/2022	0.82 (J)
4/7/2022	
10/17/2022	
10/18/2022	<0.2
10/19/2022	
Mean	0.1781

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 6/2/2023 12:19 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-9
Std. Dev.	0.1837
Upper Lim.	0.2
Lower Lim.	0.06

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 6/2/2023 12:19 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	APMW-7	APMW-8	APMW-9
4/24/2018		<0.001	<0.001	<0.001	<0.001				
4/25/2018	<0.001				<0.001		<0.001	<0.001	<0.001
6/13/2018	<0.001								<0.001
6/14/2018		<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	
7/23/2018	<0.001							<0.001	<0.001
7/24/2018		<0.001	<0.001	<0.001	<0.001		<0.001		
9/1/2018	<0.001	<0.001	<0.001	<0.001	<0.001				
9/6/2018							<0.001	<0.001	<0.001
10/1/2018		<0.001	<0.001	<0.001					
10/2/2018	<0.001				<0.001		<0.001	<0.001	<0.001
11/1/2018	0.0011 (J)							0.0016	<0.001
11/2/2018		<0.001	0.00048 (J)	0.00062 (J)	0.0011 (J)		0.0019		
12/6/2018	0.0006 (J)			<0.001	0.00041 (J)		<0.001	0.0013	0.00039 (J)
12/7/2018		<0.001	<0.001						
2/13/2019	<0.001	<0.001	<0.001	<0.001	0.00036 (J)		<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	<0.001	<0.001						0.00013 (J)
8/9/2019				<0.001	<0.001	<0.001	<0.001	<0.001	
8/30/2019	<0.001	<0.001	<0.001	<0.001	<0.001	0.00032 (J)	<0.001	<0.001	<0.001
3/16/2020		<0.001	<0.001	<0.001					
3/17/2020	<0.001				<0.001	<0.001	<0.001	<0.001	<0.001
11/5/2020		<0.001	<0.001						
11/9/2020				<0.001	<0.001			<0.001	
11/10/2020							<0.001		
11/20/2020	<0.001					<0.001			<0.001
3/8/2021	0.00016 (J)	<0.001							<0.001
3/9/2021			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
10/12/2021	<0.001	<0.001			<0.001		<0.001		<0.001
10/14/2021				<0.001					
10/20/2021						<0.001			
10/21/2021			<0.001					<0.001	
4/5/2022	0.00019 (J)	0.00022 (J)	0.00043 (J)						
4/6/2022				<0.001	<0.001		<0.001	<0.001	<0.001
4/7/2022						<0.001			
10/17/2022		<0.001							
10/18/2022	<0.001		<0.001				<0.001	<0.001	<0.001
10/19/2022				<0.001	<0.001	<0.001			
Mean	0.0008781	0.0009513	0.0009319	0.0009763	0.0009294	0.0009575	0.001056	0.001056	0.0009075
Std. Dev.	0.0002937	0.000195	0.0001864	9.5E-05	0.0002141	0.00017	0.000225	0.0001632	0.0002572
Upper Lim.	0.0011	0.001	0.001	0.001	0.0011	0.001	0.0019	0.0013	0.001
Lower Lim.	0.0006	0.00022	0.00048	0.00062	0.00041	0.00032	0.001	0.001	0.00039

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/2/2023 12:19 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	APMW-6R	APMW-7	APMW-8
4/24/2018			0.029	0.11	0.079				
4/25/2018	0.021					0.069		0.004 (J)	0.13
6/13/2018	0.013								
6/14/2018			0.023	0.073	0.055	0.046		0.0026 (J)	0.085
7/23/2018	0.015								0.09
7/24/2018			0.023	0.079	0.057	0.049		0.003 (J)	
9/1/2018	0.015		0.022	0.088	0.054	0.045			
9/6/2018								0.0029 (J)	0.099
10/1/2018			0.026	0.091	0.063				
10/2/2018	0.017					0.052		0.0021 (J)	0.095
11/1/2018	0.038								0.16
11/2/2018			0.024 (J)	0.081	0.077	0.074		0.014 (o)	
12/6/2018	0.011				0.054	0.044		<0.005	0.082
12/7/2018			0.022	0.072					
2/13/2019	0.012		0.02	0.071	0.053	0.045		0.0018 (J)	0.08
3/16/2019		0.013							
3/27/2019		0.014							
4/3/2019		0.01							
4/5/2019							0.051 (D)		
4/15/2019		0.012					0.054		
5/2/2019		0.013					0.055		
5/14/2019		0.011					0.047		
5/28/2019		<0.05							
5/29/2019							0.055		
6/12/2019		0.012					0.062		
6/19/2019							0.059		
6/25/2019							0.052		
8/8/2019	0.018	0.012	0.031	0.076					
8/9/2019					0.061	0.049	0.063	<0.005	0.086
8/30/2019	0.01	0.011	0.022	0.072	0.052	0.044	0.059	<0.005	0.068
3/16/2020		0.013	0.03	0.07	0.053				
3/17/2020	0.017					0.044	0.056	0.0071	0.08
11/4/2020		0.014							
11/5/2020			0.031	0.07					
11/9/2020					0.049	0.044			0.08
11/10/2020								0.0048 (J)	
11/20/2020	0.013						0.055		
3/8/2021	0.01	0.013	0.03						
3/9/2021				0.075	0.051	0.048	0.057	0.004 (J)	0.073
10/12/2021	0.0056	0.014	0.028			0.039		0.0036 (J)	
10/14/2021					0.052				
10/20/2021							0.0535 (D)		
10/21/2021				0.0665 (D)					0.0735 (D)
4/4/2022		0.023 (J)							
4/5/2022	0.012		0.037	0.081					
4/6/2022					0.046	0.046		0.0043 (J)	0.075
4/7/2022							0.057		
10/17/2022		0.016	0.032						
10/18/2022	0.01			0.056				0.0041 (J)	0.07
10/19/2022					0.049	0.035	0.05		
Mean	0.01485	0.01413	0.02688	0.07697	0.05656	0.04831	0.05534	0.003953	0.08916
Std. Dev.	0.007243	0.004129	0.004801	0.01211	0.009388	0.009911	0.004238	0.001365	0.02404

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/2/2023 12:19 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	APMW-6R	APMW-7	APMW-8
Upper Lim.	0.0183	0.016	0.03	0.08484	0.063	0.052	0.0581	0.004409	0.099
Lower Lim.	0.01043	0.011	0.02375	0.06909	0.051	0.044	0.05259	0.002624	0.073

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/2/2023 12:19 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-9
4/24/2018	
4/25/2018	0.0039 (J)
6/13/2018	0.0027 (J)
6/14/2018	
7/23/2018	0.0041 (J)
7/24/2018	
9/1/2018	
9/6/2018	0.0035 (J)
10/1/2018	
10/2/2018	0.004 (J)
11/1/2018	0.018 (o)
11/2/2018	
12/6/2018	<0.005
12/7/2018	
2/13/2019	0.0026 (J)
3/16/2019	
3/27/2019	
4/3/2019	
4/5/2019	
4/15/2019	
5/2/2019	
5/14/2019	
5/28/2019	
5/29/2019	
6/12/2019	
6/19/2019	
6/25/2019	
8/8/2019	0.0053
8/9/2019	
8/30/2019	<0.005
3/16/2020	
3/17/2020	0.0077
11/4/2020	
11/5/2020	
11/9/2020	
11/10/2020	
11/20/2020	0.0035 (J)
3/8/2021	0.0045 (J)
3/9/2021	
10/12/2021	<0.005
10/14/2021	
10/20/2021	
10/21/2021	
4/4/2022	
4/5/2022	
4/6/2022	0.0084
4/7/2022	
10/17/2022	
10/18/2022	0.0046 (J)
10/19/2022	
Mean	0.004653
Std. Dev.	0.001606

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/2/2023 12:19 PM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-9
Upper Lim.	0.00528
Lower Lim.	0.003209

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 6/2/2023 12:19 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
10/17/2022		<0.0002				
10/18/2022	<0.0002			<0.0002	<0.0002	<0.0002
10/19/2022			<0.0002			
Mean	0.0001918	0.0001964	0.0001924	0.0001921	0.0001912	0.0002107
Std. Dev.	3.074E-05	1.336E-05	2.86E-05	2.94E-05	3.287E-05	4.009E-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 6/2/2023 12:19 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	APMW-7	APMW-8	APMW-9
4/24/2018		<0.015	0.073	0.011 (J)					
4/25/2018	0.11				0.056		0.00096 (J)	0.18	<0.015
6/13/2018	0.09								<0.015
6/14/2018		<0.015	0.068	0.0083 (J)	0.048		0.0062 (J)	0.17	
7/23/2018	0.11							0.17	<0.015
7/24/2018		<0.015	0.065	0.0075 (J)	0.078		0.0063 (J)		
9/1/2018	0.11	<0.015	0.05	0.0082 (J)	0.081				
9/6/2018							<0.015	0.15	<0.015
10/1/2018		<0.015	0.061	0.0088 (J)					
10/2/2018	0.1				0.07		<0.015	0.15	0.0009 (J)
11/1/2018	0.11							0.16	<0.015
11/2/2018		<0.015	0.062	0.0083 (J)	0.1		0.0066 (J)		
12/6/2018	0.1			0.0093 (J)	0.069		0.0062 (J)	0.14	<0.015
12/7/2018		<0.015	0.062						
2/13/2019	0.085	<0.015	0.061	0.0093 (J)	0.1		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	0.11	0.00079 (J)	0.073						<0.015
8/9/2019				0.012	0.15	0.48	<0.015	0.12	
8/30/2019	0.078	<0.015	0.065	0.011	0.088	0.42	<0.015	0.11	0.00093 (J)
3/16/2020		<0.015	0.072	0.01					
3/17/2020	0.081				0.079	0.47	<0.015	0.094	<0.015
11/5/2020		<0.015	0.067						
11/9/2020				0.0084 (J)	0.11			0.072	
11/10/2020							<0.015		
11/20/2020	0.059					0.42			<0.015
3/8/2021	0.055	<0.015							<0.015
3/9/2021			0.076	0.0059 (J)	0.072	0.48	<0.015	0.069	
10/12/2021	0.033	<0.015			0.074		<0.015		<0.015
10/14/2021				0.0042 (J)					
10/20/2021						0.45 (D)			
10/21/2021			0.0705 (D)					0.056 (D)	
4/5/2022	0.043	<0.015	0.071						
4/6/2022				0.005 (J)	0.074		<0.015	0.053	<0.015
4/7/2022						0.5			
10/17/2022		<0.015							
10/18/2022	0.03		0.05				<0.015	0.039	<0.015
10/19/2022				0.0043 (J)	0.039	0.44			
Mean	0.0815	0.01411	0.06541	0.008219	0.0805	0.4156	0.01131	0.1164	0.01324
Std. Dev.	0.02891	0.003552	0.007636	0.002358	0.02621	0.05477	0.005076	0.04699	0.004811
Upper Lim.	0.11	0.015	0.07037	0.009753	0.09755	0.4513	0.015	0.147	0.015
Lower Lim.	0.043	0.00079	0.06044	0.006684	0.06345	0.38	0.0062	0.08586	0.00093

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 6/2/2023 12:19 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	APMW-8	APMW-9
4/24/2018		<0.005	0.0016	0.00055 (J)				
4/25/2018	0.00061 (J)				0.00071 (J)	0.00046 (J)	0.00042 (J)	0.00081 (J)
6/13/2018	0.00034 (J)							0.00027 (J)
6/14/2018		0.00061 (J)	0.0019	0.00068 (J)	0.0006 (J)	0.00039 (J)	0.00049 (J)	
7/23/2018	0.00035 (J)						0.0006 (J)	0.00041 (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	<0.005	<0.005
10/1/2018		<0.005	<0.005	<0.005				
10/2/2018	<0.005				<0.005	<0.005	<0.005	<0.005
11/1/2018	<0.005						<0.005	<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	<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	<0.005	<0.005
8/8/2019	<0.005	<0.005	0.0017 (J)					<0.005
8/9/2019				<0.005	<0.005	<0.005	<0.005	
8/30/2019	<0.005	<0.005	<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	<0.005	<0.005
11/5/2020		<0.005	<0.005					
11/9/2020				<0.005	<0.005		<0.005	
11/10/2020						<0.005		
11/20/2020	<0.005							<0.005
3/8/2021	<0.005	<0.005						<0.005
3/9/2021			<0.005	<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				<0.005	
4/5/2022	<0.005	<0.005	<0.005					
4/6/2022				<0.005	<0.005	<0.005	<0.005	<0.005
10/17/2022		<0.005						
10/18/2022	<0.005		<0.005			<0.005	<0.005	<0.005
10/19/2022				<0.005	<0.005			
Mean	0.004144	0.004169	0.003386	0.004162	0.004182	0.004138	0.004157	0.004156
Std. Dev.	0.001842	0.001788	0.001908	0.001803	0.001759	0.001853	0.001813	0.001818
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00061	0.00072	0.0011	0.00068	0.00071	0.00046	0.0006	0.00081

Confidence Interval

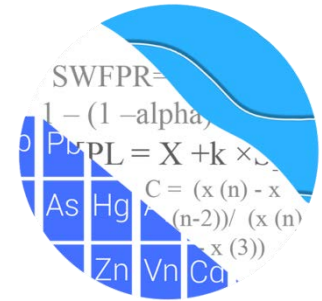
Constituent: Thallium (mg/L) Analysis Run 6/2/2023 12:19 PM View: Appendix IV - Confidence Intervals

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
10/17/2022		<0.001	<0.001			
10/18/2022	<0.001			<0.001	<0.001	<0.001
Mean	0.0009006	0.0009494	0.00099	0.000945	0.00092	0.00099
Std. Dev.	0.0002371	0.0002025	4E-05	0.00022	0.0002874	0.0002498
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

2nd
Semi-Annual
Monitoring Event

GROUNDWATER STATS CONSULTING



June 5, 2023

Southern Company Services
Attn: Mr. Trey Singleton
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Watson Ash Pond
Statistical Analysis – March 2023

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 March 2023 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 Kristina Rayner, Senior Statistician and Founder of 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.

Delineation wells will be analyzed using confidence intervals for Appendix IV constituents when a minimum of 8 samples are available and, currently, all delineation wells have limited sample sizes. Data from all the delineation wells are plotted on the time series graphs and box plots.

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, 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 – March 2023

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 additional 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 through March 2023 to develop background limits (Figure D). The March 2023 observation at each downgradient well was compared to its respective background limit during this analysis. Note that due to historic varying detection limits from dilution for fluoride, the most recent reporting limit of 0.2 mg/L was used for all wells.

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.

Summary tables of the prediction limit findings follow this letter. When the March 2023 samples from downgradient wells were evaluated using interwell prediction limits, exceedances were identified for the following well/constituent pairs:

- Boron: APMW-1R, APMW-2, APMW-3, APMW-5, APMW-6R, APMW-8, APMW-9, and APMW-10
- Calcium: APMW-1R, APMW-2, APMW-3, APMW-5, APMW-6R, APMW-8, and APMW-9
- Chloride: APMW-3 and APMW-5
- Fluoride: APMW-8 and APMW-10
- pH: APMW-10
- Sulfate: APMW-3
- TDS: APMW-3 and APMW-5

Trend Tests

The Sen's Slope/Mann Kendall trend test was performed at the 99% confidence level on wells/constituent pairs 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:

- Calcium: APMW-1R
- pH: APMW-10

Decreasing:

- Boron: APMW-2
- Calcium: APMW-11 (upgradient)
- Chloride: APMW-3
- pH: APMW-11 and APMW-12 (both upgradient)
- Sulfate: APMW-3

Evaluation of Appendix IV Parameters – March 2023

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 additional outliers were flagged and a summary of flagged outliers follows this report. As mentioned above, due to historic varying detection limits from dilution for fluoride, the most recent reporting limit of 0.2 mg/L was used for all wells.

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). These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as

described above. The confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

As mentioned, well/constituent pairs containing 100% non-detects did not require statistics; therefore, they were deselected prior to construction of confidence intervals. Each confidence interval was compared with the corresponding GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. Exceedances were identified for the following well/constituent pairs:

- Arsenic: APMW-3, APMW-4, APMW-5, APMW-6R, APMW-8, and APMW-10
- Barium: APMW-2
- Combined Radium 226 + 228: APMW-1R, APMW-2, and APMW-9
- Lithium: APMW-3, APMW-4, APMW-6R, and APMW-8
- Molybdenum: APMW-6R

A summary of all results follows this letter. Note that Southern Company Services, reportedly, submitted an Alternate Source Demonstration (ASD) for 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,



Andrew Collins
Project Manager



Kristina L. Rayner
Senior Statistician

100% Non-Detects: Appendix IV Downgradient

Analysis Run 6/2/2023 11:30 AM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Antimony (mg/L)

APMW-10, APMW-1R, 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 6/1/2023, 10:46 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	APMW-10	1.2	n/a	3/13/2023	2.1	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	3/8/2023	5.3	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	3/8/2023	3.6	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	3/8/2023	5.7	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	3/9/2023	6.6	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	3/9/2023	11	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	3/9/2023	19	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	3/13/2023	6.2	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	3/8/2023	190	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	3/8/2023	370	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	3/8/2023	320	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	3/9/2023	310	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	3/9/2023	370	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	3/9/2023	470	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	3/13/2023	300	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	3/8/2023	8800	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	3/9/2023	7800	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-10	0.54	n/a	3/13/2023	0.87	Yes	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-8	0.54	n/a	3/9/2023	0.59	Yes	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.769	5.818	3/13/2023	6.97	Yes	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
Sulfate (mg/L)	APMW-3	870	n/a	3/8/2023	960	Yes	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	3/8/2023	17000	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	3/9/2023	15000	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 6/1/2023, 10:46 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	APMW-10	1.2	n/a	3/13/2023	2.1	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	3/8/2023	5.3	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	3/8/2023	3.6	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	3/8/2023	5.7	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-4	1.2	n/a	3/8/2023	0.89	No	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	3/9/2023	6.6	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	3/9/2023	11	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-7	1.2	n/a	3/9/2023	0.87	No	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	3/9/2023	19	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	3/13/2023	6.2	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-10	130	n/a	3/13/2023	46	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	3/8/2023	190	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	3/8/2023	370	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	3/8/2023	320	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-4	130	n/a	3/8/2023	120	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	3/9/2023	310	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	3/9/2023	370	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-7	130	n/a	3/9/2023	110	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	3/9/2023	470	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	3/13/2023	300	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-10	5400	n/a	3/13/2023	620	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-1R	5400	n/a	3/8/2023	2300	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-2	5400	n/a	3/8/2023	2400	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	3/8/2023	8800	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-4	5400	n/a	3/8/2023	2400	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	3/9/2023	7800	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-6R	5400	n/a	3/9/2023	3700	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-7	5400	n/a	3/9/2023	4200	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-8	5400	n/a	3/9/2023	3300	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-9	5400	n/a	3/13/2023	2900	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-10	0.54	n/a	3/13/2023	0.87	Yes	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-1R	0.54	n/a	3/8/2023	0.086J	No	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-2	0.54	n/a	3/8/2023	0.068J	No	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-3	0.54	n/a	3/8/2023	0.19J	No	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-4	0.54	n/a	3/8/2023	0.25	No	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-5	0.54	n/a	3/9/2023	0.12J	No	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-6R	0.54	n/a	3/9/2023	0.11J	No	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-7	0.54	n/a	3/9/2023	0.14J	No	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-8	0.54	n/a	3/9/2023	0.59	Yes	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-9	0.54	n/a	3/13/2023	0.081J	No	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.769	5.818	3/13/2023	6.97	Yes	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-1R	6.769	5.818	3/8/2023	6.23	No	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-2	6.769	5.818	3/8/2023	5.88	No	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-3	6.769	5.818	3/8/2023	6.53	No	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-4	6.769	5.818	3/8/2023	6.26	No	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-5	6.769	5.818	3/9/2023	6.28	No	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-6R	6.769	5.818	3/9/2023	6.04	No	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-7	6.769	5.818	3/9/2023	6.37	No	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-8	6.769	5.818	3/9/2023	6.5	No	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-9	6.769	5.818	3/13/2023	6.22	No	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
Sulfate (mg/L)	APMW-10	870	n/a	3/13/2023	2.5	No	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-1R	870	n/a	3/8/2023	5	No	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-2	870	n/a	3/8/2023	5.6	No	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-3	870	n/a	3/8/2023	960	Yes	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-4	870	n/a	3/8/2023	210	No	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 6/1/2023, 10:46 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	APMW-5	870	n/a	3/9/2023	810	No	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-6R	870	n/a	3/9/2023	810	No	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-7	870	n/a	3/9/2023	79	No	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-8	870	n/a	3/9/2023	570	No	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-9	870	n/a	3/13/2023	250	No	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-10	9200	n/a	3/13/2023	1500	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-1R	9200	n/a	3/8/2023	4400	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-2	9200	n/a	3/8/2023	4000	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	3/8/2023	17000	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-4	9200	n/a	3/8/2023	4600	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	3/9/2023	15000	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-6R	9200	n/a	3/9/2023	7500	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-7	9200	n/a	3/9/2023	7900	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-8	9200	n/a	3/9/2023	7400	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-9	9200	n/a	3/13/2023	6000	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 6/1/2023, 10:52 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	APMW-2	-0.1595	-68	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-11 (bg)	-1.379	-65	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	20.81	67	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-3	-438.9	-88	-63	Yes	17	0	n/a	n/a	0.01	NP
pH (SU)	APMW-10	0.07511	78	68	Yes	18	0	n/a	n/a	0.01	NP
pH (SU)	APMW-11 (bg)	-0.1515	-104	-63	Yes	17	0	n/a	n/a	0.01	NP
pH (SU)	APMW-12 (bg)	-0.0907	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-3	-38.77	-68	-63	Yes	17	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 6/1/2023, 10:52 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	APMW-10	0.05882	51	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-11 (bg)	0.0006426	28	58	No	16	50	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-12 (bg)	0.01125	46	58	No	16	31.25	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-13 (bg)	0.01615	6	18	No	7	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-14 (bg)	-0.0127	-8	-18	No	7	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-15 (bg)	0.01848	5	18	No	7	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-16 (bg)	-0.0237	-3	-18	No	7	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-1R	0.6591	38	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-2	-0.1595	-68	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-3	0.1144	40	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-5	-0.06689	-21	-63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-6R	0.3824	49	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-8	-0.2703	-25	-63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-9	-0.03377	-14	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-11 (bg)	-1.379	-65	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-12 (bg)	-0.4117	-57	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-13 (bg)	-2.16	-7	-18	No	7	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-14 (bg)	-4.264	-11	-18	No	7	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-15 (bg)	-8.233	-17	-18	No	7	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-16 (bg)	-16.16	-11	-18	No	7	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	20.81	67	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-2	6.922	30	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-3	0	2	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-5	-3.816	-28	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-6R	-6.769	-18	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-8	-4.748	-27	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-9	0	-13	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-11 (bg)	-0.1595	-27	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-12 (bg)	0	-18	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-13 (bg)	-149.6	-12	-18	No	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-14 (bg)	-92.41	-12	-18	No	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-15 (bg)	-123.7	-9	-18	No	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-16 (bg)	-98.92	-5	-18	No	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-3	-438.9	-88	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-5	-115.1	-40	-63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-10	-0.00223	-3	-68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-11 (bg)	0	10	63	No	17	41.18	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-12 (bg)	-0.001328	-5	-63	No	17	11.76	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-13 (bg)	-0.04845	-5	-18	No	7	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-14 (bg)	0	1	18	No	7	57.14	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-15 (bg)	0	0	18	No	7	14.29	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-16 (bg)	0.03411	1	18	No	7	14.29	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-8	-0.06293	-43	-68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	APMW-10	0.07511	78	68	Yes	18	0	n/a	n/a	0.01	NP
pH (SU)	APMW-11 (bg)	-0.1515	-104	-63	Yes	17	0	n/a	n/a	0.01	NP
pH (SU)	APMW-12 (bg)	-0.0907	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	APMW-13 (bg)	0.01496	2	18	No	7	0	n/a	n/a	0.01	NP
pH (SU)	APMW-14 (bg)	-0.00584	-4	-18	No	7	0	n/a	n/a	0.01	NP
pH (SU)	APMW-15 (bg)	0.01404	4	18	No	7	0	n/a	n/a	0.01	NP
pH (SU)	APMW-16 (bg)	0.009973	5	18	No	7	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-11 (bg)	-0.06411	-18	-58	No	16	18.75	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-12 (bg)	-0.07661	-35	-58	No	16	18.75	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-13 (bg)	18.21	8	14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-14 (bg)	64.68	17	18	No	7	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-15 (bg)	-4.488	-3	-18	No	7	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-16 (bg)	1.995	3	18	No	7	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-3	-38.77	-68	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-11 (bg)	-5.898	-37	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-12 (bg)	-3.823	-30	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-13 (bg)	-71.22	-7	-18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-14 (bg)	-306.7	-11	-18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-15 (bg)	-216	-11	-18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-16 (bg)	-122.6	-3	-18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-3	0	-12	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-5	0	-16	-63	No	17	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 6/1/2023, 11:11 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a 62	n/a	n/a	98.39	n/a	n/a	0.04158	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.00496	n/a	n/a	n/a	n/a 62	n/a	n/a	40.32	n/a	n/a	0.04158	NP Inter(normality)
Barium (mg/L)	n/a	0.25	n/a	n/a	n/a	n/a 62	n/a	n/a	0	n/a	n/a	0.04158	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a 62	n/a	n/a	95.16	n/a	n/a	0.04158	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a 62	n/a	n/a	98.39	n/a	n/a	0.04158	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0044	n/a	n/a	n/a	n/a 58	n/a	n/a	87.93	n/a	n/a	0.05105	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a 62	n/a	n/a	88.71	n/a	n/a	0.04158	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	5.624	n/a	n/a	n/a	n/a 62	1.057	0.3587	3.226	None	x^(1/3)	0.05	Inter
Fluoride (mg/L)	n/a	0.54	n/a	n/a	n/a	n/a 62	n/a	n/a	24.19	n/a	n/a	0.04158	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 62	n/a	n/a	96.77	n/a	n/a	0.04158	NP Inter(NDs)
Lithium (mg/L)	n/a	0.02398	n/a	n/a	n/a	n/a 62	0.09788	0.02835	6.452	None	sqrt(x)	0.05	Inter
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a 58	n/a	n/a	96.55	n/a	n/a	0.05105	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	n/a 62	n/a	n/a	96.77	n/a	n/a	0.04158	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 62	n/a	n/a	100	n/a	n/a	0.04158	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 62	n/a	n/a	96.77	n/a	n/a	0.04158	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		5.62	5.62
Fluoride, Total (mg/L)	4		0.54	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.024	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 6/2/2023, 11:33 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	APMW-10	0.1109	0.07115	0.01	Yes	17	0.08618	0.03652	0	None	x^2	0.01	Param.
Arsenic (mg/L)	APMW-3	0.07888	0.0593	0.01	Yes	17	0.06909	0.01562	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01798	0.01559	0.01	Yes	17	0.01569	0.003811	0	None	x^6	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2352	0.2095	0.01	Yes	17	0.2224	0.02047	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.1869	0.1377	0.01	Yes	17	0.1623	0.03925	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-8	0.07506	0.03906	0.01	Yes	17	0.05706	0.02872	0	None	No	0.01	Param.
Barium (mg/L)	APMW-2	3.415	3.009	2	Yes	17	3.212	0.3238	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	11.03	7.11	5.62	Yes	17	9.071	3.13	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.09	17.87	5.62	Yes	17	18.98	1.773	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	8.11	6.71	5.62	Yes	17	7.428	0.8931	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-3	0.08432	0.06963	0.04	Yes	17	0.07697	0.01172	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-4	0.06089	0.04952	0.04	Yes	17	0.05565	0.009842	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	APMW-6R	0.05784	0.05269	0.04	Yes	17	0.05526	0.004116	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-8	0.095	0.073	0.04	Yes	17	0.08785	0.02389	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-6R	0.4669	0.3837	0.1	Yes	17	0.4253	0.06634	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 6/2/2023, 11:33 AM

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	17	0.001965	0.0001455	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	APMW-3	0.002	0.00059	0.006	No	17	0.001917	0.000342	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	APMW-8	0.002	0.00066	0.006	No	17	0.001921	0.000325	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	APMW-10	0.1109	0.07115	0.01	Yes	17	0.08618	0.03652	0	None	x^2	0.01	Param.
Arsenic (mg/L)	APMW-1R	0.001711	0.0006871	0.01	No	17	0.001279	0.0008388	11.76	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	APMW-2	0.0012	0.00094	0.01	No	17	0.0009565	0.0001744	76.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	APMW-3	0.07888	0.0593	0.01	Yes	17	0.06909	0.01562	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01798	0.01559	0.01	Yes	17	0.01569	0.003811	0	None	x^6	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2352	0.2095	0.01	Yes	17	0.2224	0.02047	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.1869	0.1377	0.01	Yes	17	0.1623	0.03925	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-7	0.0021	0.00048	0.01	No	17	0.00116	0.0008757	0	None	No	0.01	NP (normality)
Arsenic (mg/L)	APMW-8	0.07506	0.03906	0.01	Yes	17	0.05706	0.02872	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-9	0.001416	0.001172	0.01	No	17	0.001294	0.0001952	0	None	No	0.01	Param.
Barium (mg/L)	APMW-10	0.3123	0.2436	2	No	17	0.2794	0.05629	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	APMW-1R	1.5	0.93	2	No	17	1.192	0.3023	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-2	3.415	3.009	2	Yes	17	3.212	0.3238	0	None	No	0.01	Param.
Barium (mg/L)	APMW-3	0.11	0.098	2	No	17	0.1021	0.006508	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-4	0.5	0.22	2	No	17	0.3547	0.138	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-5	0.11	0.093	2	No	17	0.1019	0.008038	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-6R	0.06299	0.05089	2	No	17	0.05694	0.00966	0	None	No	0.01	Param.
Barium (mg/L)	APMW-7	0.8453	0.6347	2	No	17	0.74	0.168	0	None	No	0.01	Param.
Barium (mg/L)	APMW-8	0.24	0.2	2	No	17	0.2224	0.02412	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-9	0.4847	0.4353	2	No	17	0.46	0.03937	0	None	No	0.01	Param.
Beryllium (mg/L)	APMW-10	0.0025	0.00076	0.004	No	17	0.002276	0.0006353	88.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-1R	0.0025	0.00019	0.004	No	17	0.002364	0.0005603	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-2	0.0025	0.00061	0.004	No	17	0.002119	0.0008528	82.35	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-3	0.0025	0.00018	0.004	No	17	0.002364	0.0005627	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-6R	0.0025	0.00036	0.004	No	17	0.002374	0.000519	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-7	0.0025	0.00025	0.004	No	17	0.002368	0.0005457	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-8	0.0025	0.00038	0.004	No	17	0.002246	0.0007175	88.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-9	0.0025	0.00049	0.004	No	17	0.002118	0.0008528	82.35	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-10	0.0025	0.00025	0.005	No	17	0.002368	0.0005457	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-1R	0.0025	0.00045	0.005	No	17	0.002379	0.0004972	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-6R	0.0025	0.00026	0.005	No	17	0.002229	0.0007641	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-1R	0.0032	0.002	0.1	No	15	0.00208	0.0003098	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-3	0.002	0.0014	0.1	No	15	0.00196	0.0001549	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-4	0.002184	0.001476	0.1	No	15	0.00202	0.0004296	40	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	APMW-5	0.0024	0.0014	0.1	No	15	0.001853	0.0003357	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-7	0.0022	0.0014	0.1	No	15	0.001787	0.0003137	53.33	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-8	0.0032	0.0014	0.1	No	15	0.00204	0.0003562	86.67	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-10	0.0025	0.00033	0.006	No	17	0.00209	0.0009139	82.35	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-1R	0.0025	0.0004	0.006	No	17	0.001499	0.001098	52.94	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-3	0.003101	0.002417	0.006	No	17	0.002759	0.0005455	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-4	0.003731	0.003092	0.006	No	17	0.003412	0.0005098	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-5	0.0025	0.000079	0.006	No	17	0.002215	0.0008047	88.24	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-6R	0.003422	0.002108	0.006	No	17	0.002765	0.001049	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-7	0.0025	0.00025	0.006	No	17	0.001456	0.001142	52.94	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-9	0.0025	0.000089	0.006	No	17	0.002216	0.0008015	88.24	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	APMW-10	3.393	2.637	5.62	No	17	3.015	0.6031	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	11.03	7.11	5.62	Yes	17	9.071	3.13	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.09	17.87	5.62	Yes	17	18.98	1.773	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	6.883	5.481	5.62	No	17	6.11	1.207	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-4	2.532	1.839	5.62	No	17	2.185	0.5534	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-5	4.537	3.641	5.62	No	17	4.089	0.7148	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-6R	3.299	2.761	5.62	No	17	2.913	0.7669	0	None	x^3	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.351	5.497	5.62	No	17	6.424	1.479	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-8	4.4	3.427	5.62	No	17	3.914	0.7759	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	8.11	6.71	5.62	Yes	17	7.428	0.8931	0	None	No	0.01	NP (normality)

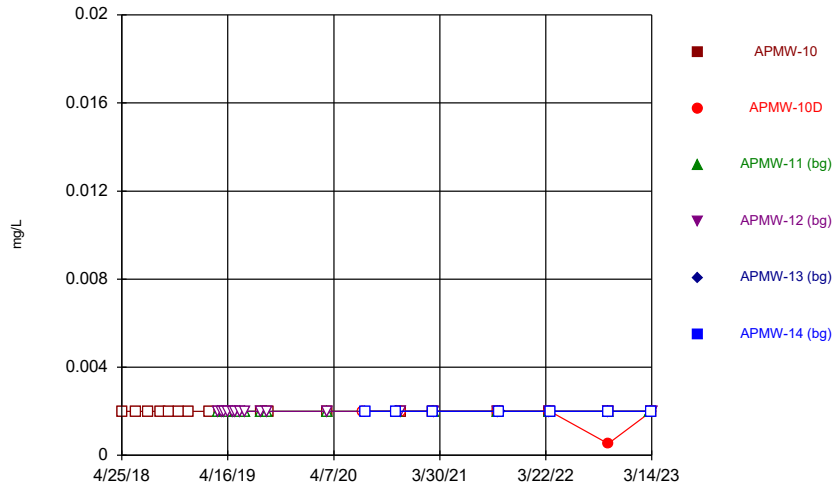
Confidence Intervals - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 6/2/2023, 11:33 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	APMW-10	0.779	0.6232	4	No	18	0.7011	0.1287	0	None	No	0.01	Param.
Fluoride (mg/L)	APMW-1R	0.21	0.14	4	No	17	0.1845	0.04257	52.94	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-2	0.2	0.068	4	No	17	0.1328	0.06615	29.41	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-3	0.4666	0.248	4	No	18	0.4028	0.2156	27.78	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	APMW-4	0.5281	0.4439	4	No	18	0.4283	0.1544	11.11	None	x^6	0.01	Param.
Fluoride (mg/L)	APMW-5	0.2	0.09	4	No	17	0.1426	0.05707	47.06	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-6R	0.27	0.11	4	No	17	0.5771	1.501	64.71	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-7	0.26	0.12	4	No	18	0.3052	0.4112	16.67	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-8	1.1	0.73	4	No	18	1.732	3.566	0	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-9	0.2	0.06	4	No	17	0.1724	0.1794	35.29	None	No	0.01	NP (normality)
Lead (mg/L)	APMW-10	0.0011	0.0006	0.015	No	17	0.0008853	0.0002859	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-2	0.001	0.00022	0.015	No	17	0.0009541	0.0001892	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-3	0.001	0.00048	0.015	No	17	0.0009359	0.0001812	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-4	0.001	0.00062	0.015	No	17	0.0009776	0.00009216	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-5	0.0011	0.00041	0.015	No	17	0.0009335	0.0002081	82.35	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-6R	0.001	0.00032	0.015	No	17	0.00096	0.0001649	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-7	0.0019	0.001	0.015	No	17	0.001053	0.0002183	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-8	0.0013	0.00075	0.015	No	17	0.001038	0.0001746	82.35	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-9	0.001	0.00039	0.015	No	17	0.0009129	0.00025	88.24	None	No	0.01	NP (NDs)
Lithium (mg/L)	APMW-10	0.01775	0.01038	0.04	No	17	0.01456	0.007111	0	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	APMW-1R	0.016	0.011	0.04	No	17	0.01441	0.004169	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-2	0.03064	0.02419	0.04	No	17	0.02741	0.005149	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-3	0.08432	0.06963	0.04	Yes	17	0.07697	0.01172	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-4	0.06089	0.04952	0.04	Yes	17	0.05565	0.009842	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	APMW-5	0.052	0.04	0.04	No	17	0.04782	0.009806	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.05784	0.05269	0.04	Yes	17	0.05526	0.004116	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-7	0.004345	0.002656	0.04	No	16	0.00415	0.001536	18.75	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	APMW-8	0.095	0.073	0.04	Yes	17	0.08785	0.02389	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-9	0.005339	0.003213	0.04	No	16	0.004694	0.00156	18.75	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	APMW-10	0.0002	0.000085	0.002	No	15	0.0001923	0.00002969	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-1R	0.0002	0.00015	0.002	No	15	0.0001967	0.00001291	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-5	0.0002	0.000093	0.002	No	15	0.0001929	0.00002763	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-7	0.0002	0.00009	0.002	No	15	0.0001927	0.0000284	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-8	0.0002	0.000077	0.002	No	15	0.0001918	0.00003176	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-9	0.00035	0.0002	0.002	No	15	0.00021	0.00003873	93.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-10	0.11	0.043	0.1	No	17	0.07865	0.03036	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-2	0.015	0.00079	0.1	No	17	0.01416	0.003446	94.12	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-3	0.06996	0.06069	0.1	No	17	0.06532	0.007401	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-4	0.009538	0.006427	0.1	No	17	0.007982	0.002483	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-5	0.1037	0.0655	0.1	No	17	0.08459	0.03047	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-6R	0.4669	0.3837	0.1	Yes	17	0.4253	0.06634	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-7	0.015	0.0062	0.1	No	17	0.01153	0.004996	64.71	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-8	0.1428	0.07845	0.1	No	17	0.1106	0.05138	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-9	0.015	0.00093	0.1	No	17	0.01334	0.004678	88.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-10	0.005	0.00061	0.05	No	17	0.004194	0.001795	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-2	0.005	0.00072	0.05	No	17	0.004218	0.001743	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-3	0.005	0.0011	0.05	No	17	0.003269	0.001909	52.94	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-4	0.005	0.00068	0.05	No	17	0.004211	0.001757	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-5	0.005	0.0016	0.05	No	17	0.00403	0.001815	76.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-7	0.005	0.00046	0.05	No	17	0.004189	0.001806	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-8	0.005	0.00076	0.05	No	17	0.003957	0.001939	76.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-9	0.005	0.0012	0.05	No	17	0.003982	0.001901	76.47	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-10	0.001	0.00068	0.002	No	17	0.0009065	0.0002308	82.35	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-1R	0.001	0.00019	0.002	No	17	0.0009524	0.0001965	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-2	0.001	0.00084	0.002	No	17	0.0009906	0.00003881	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-3	0.001	0.00012	0.002	No	17	0.0009482	0.0002134	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-8	0.0013	0.00025	0.002	No	17	0.0009247	0.000279	82.35	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-9	0.0016	0.00024	0.002	No	17	0.0009906	0.0002419	88.24	None	No	0.01	NP (NDs)

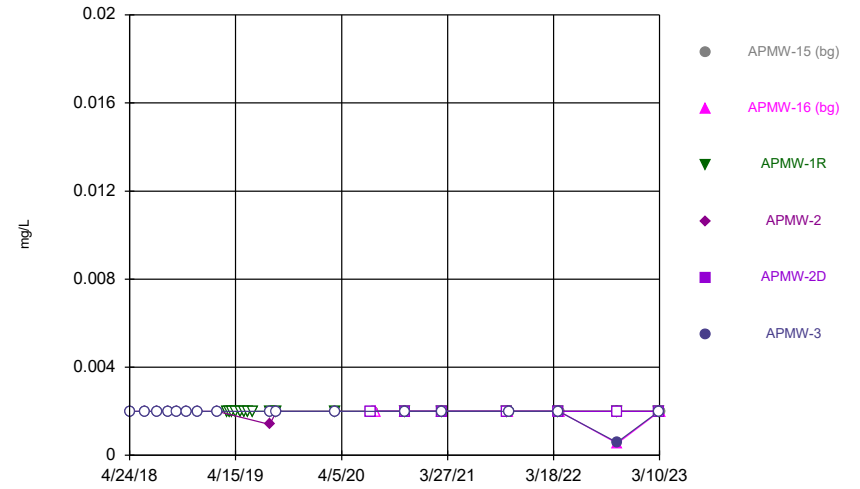
FIGURE A.

Time Series



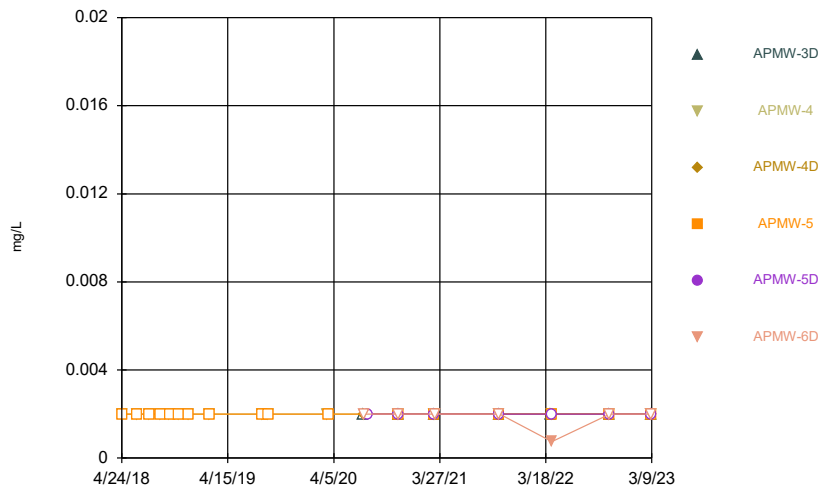
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



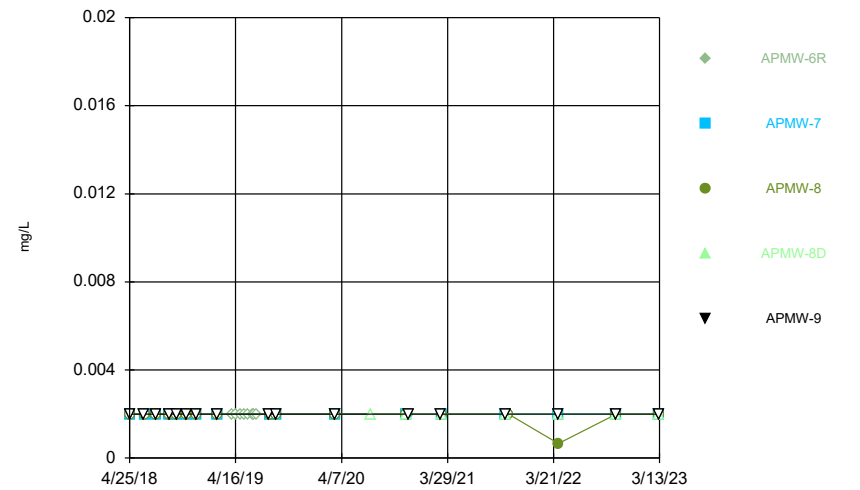
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



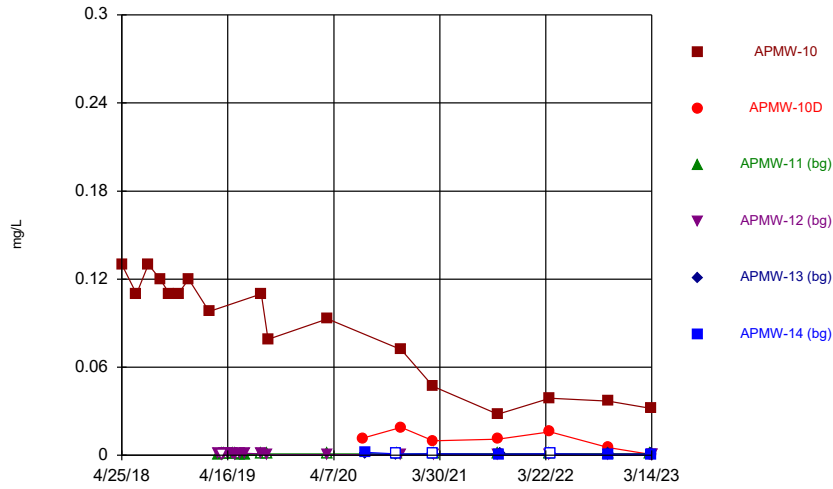
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Time Series



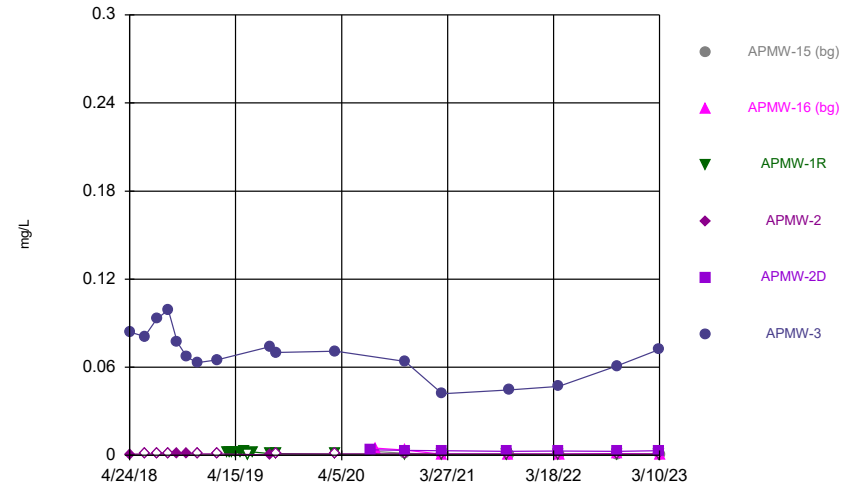
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

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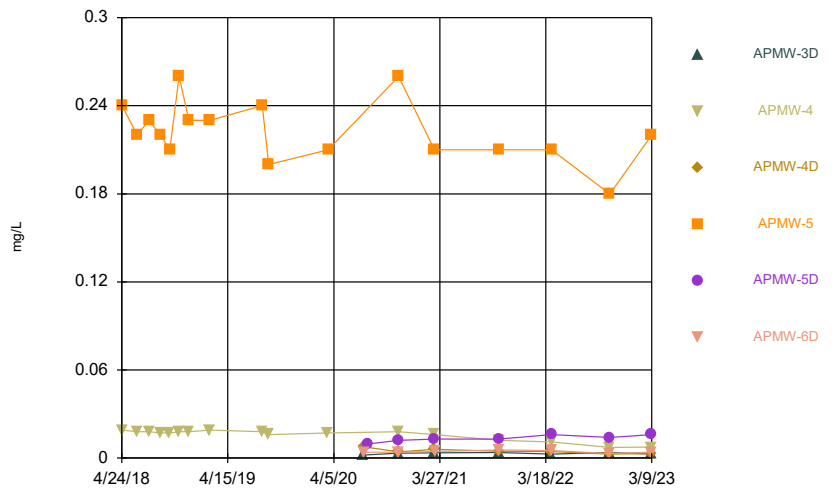
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



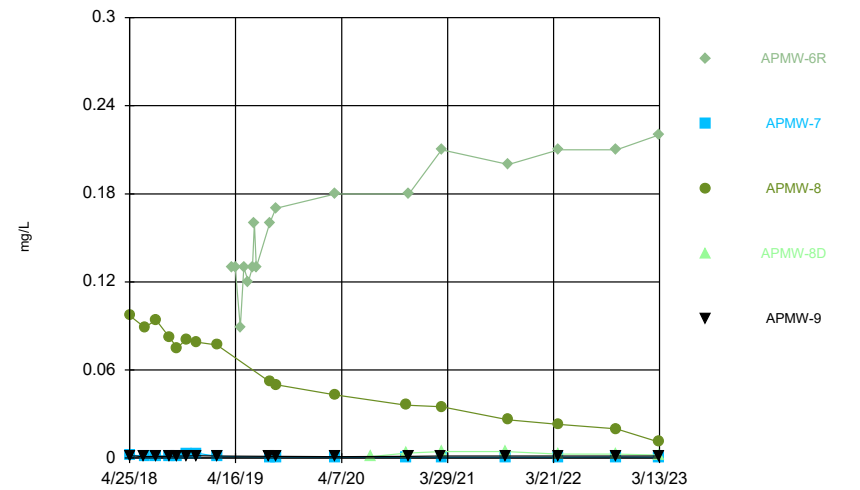
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Time Series



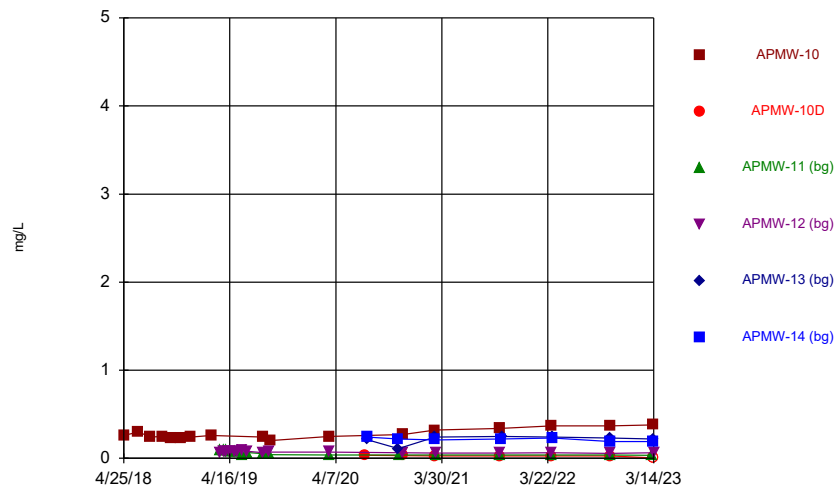
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



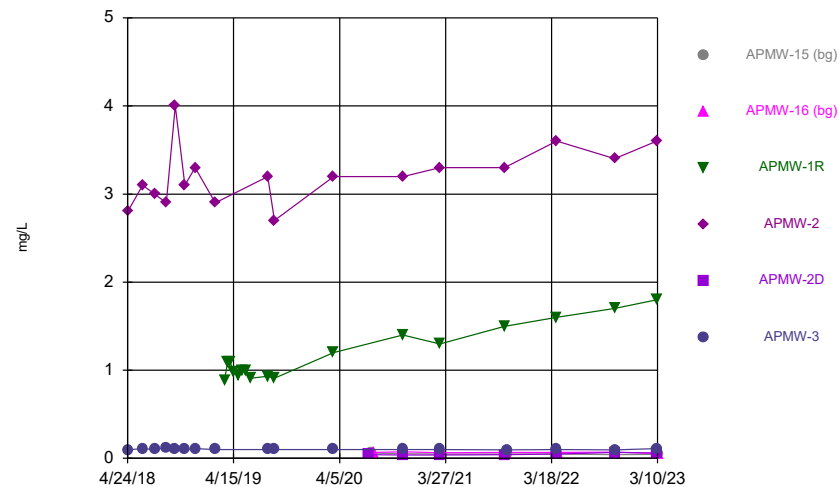
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Time Series



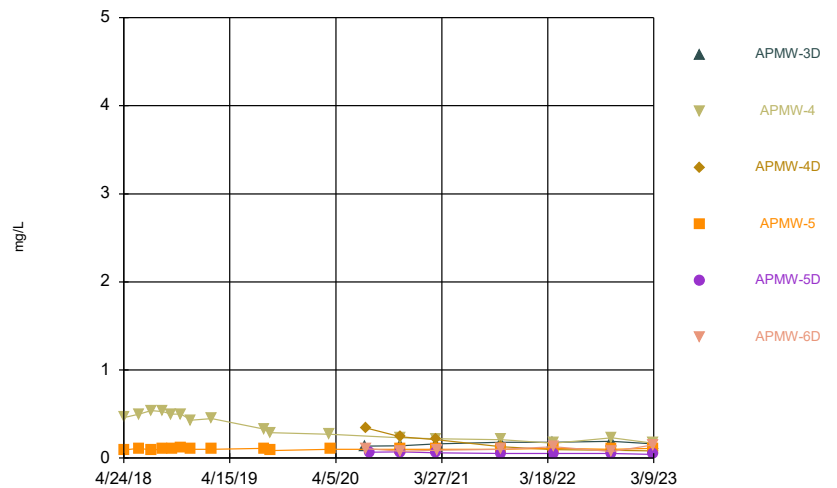
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Time Series



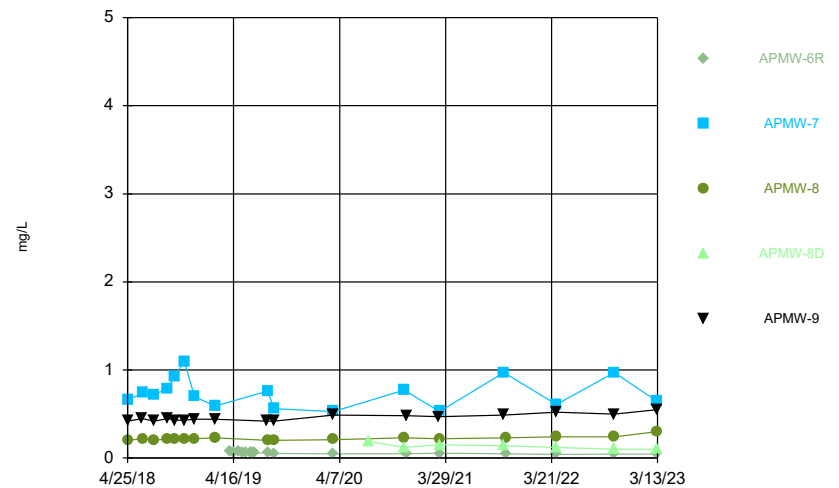
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Time Series



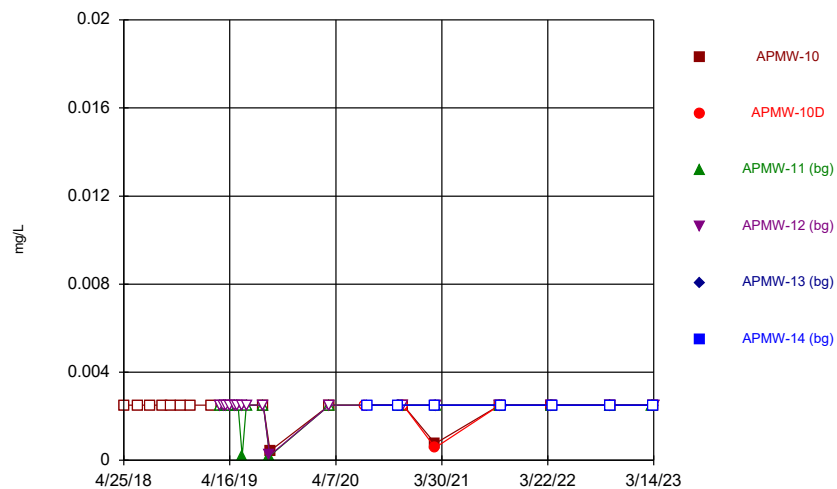
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Time Series



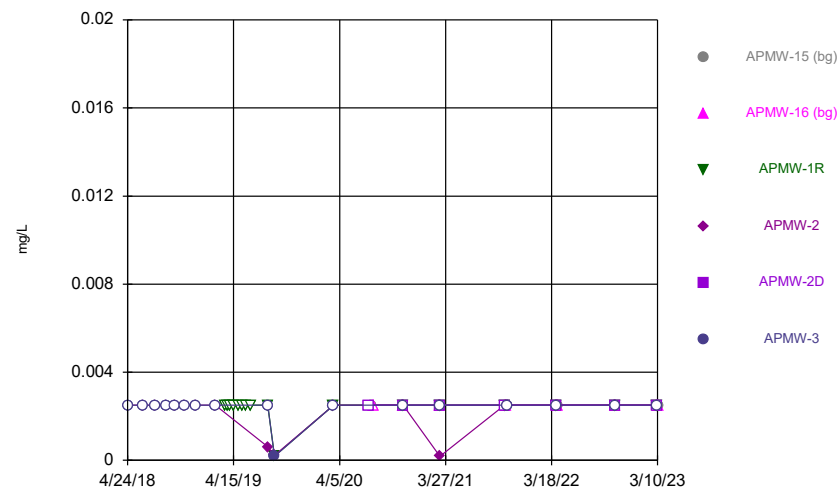
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



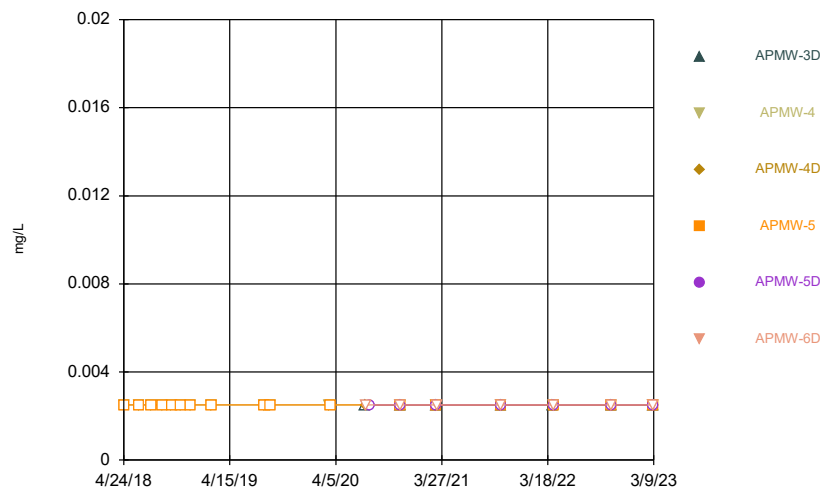
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



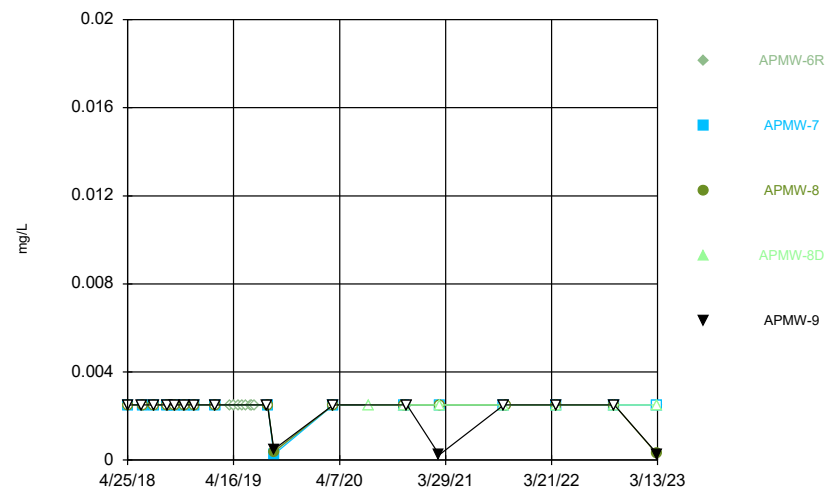
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



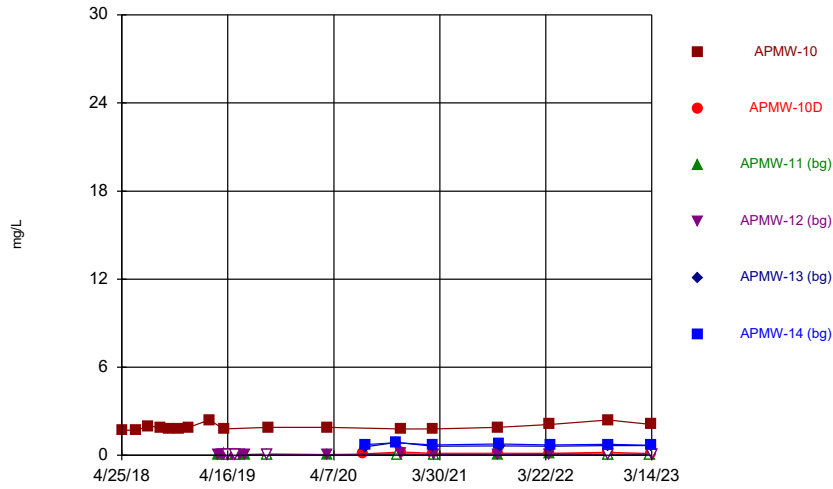
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Time Series



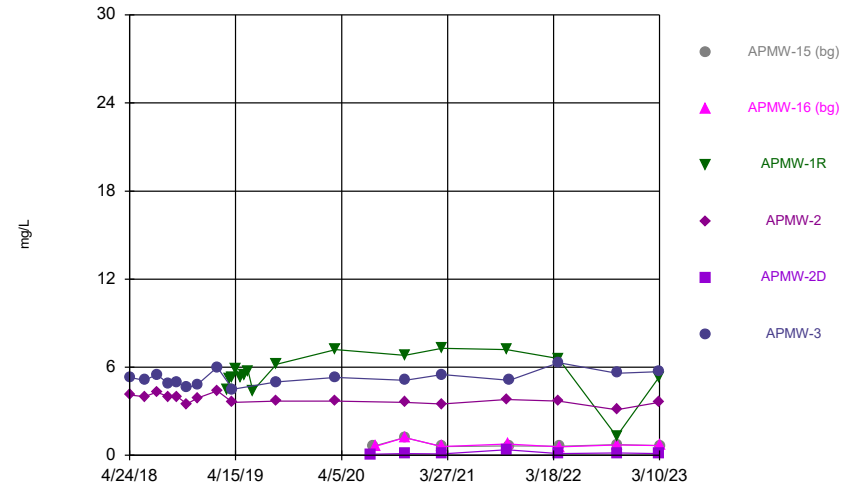
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



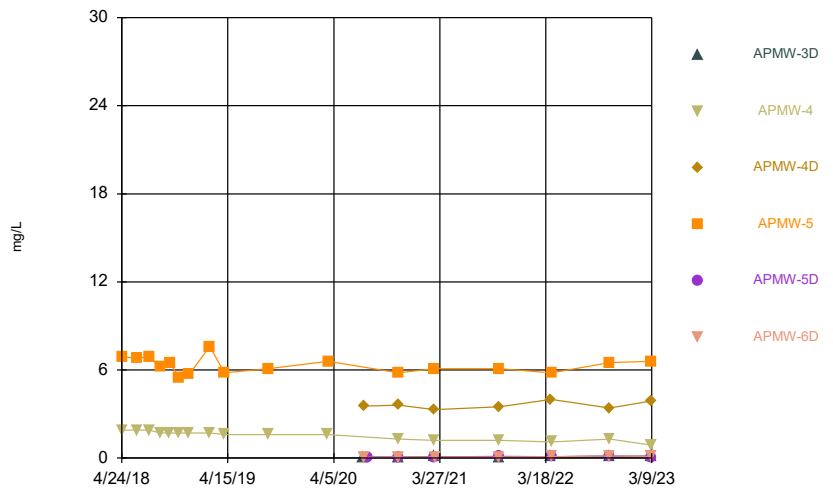
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Time Series



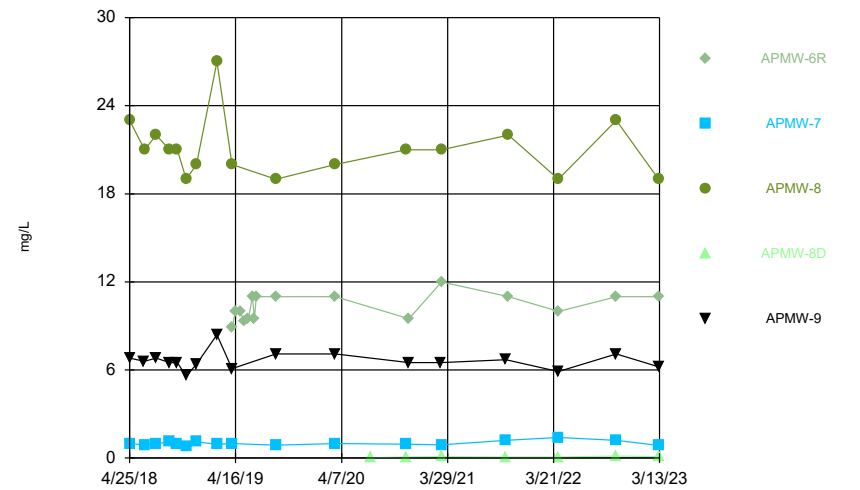
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



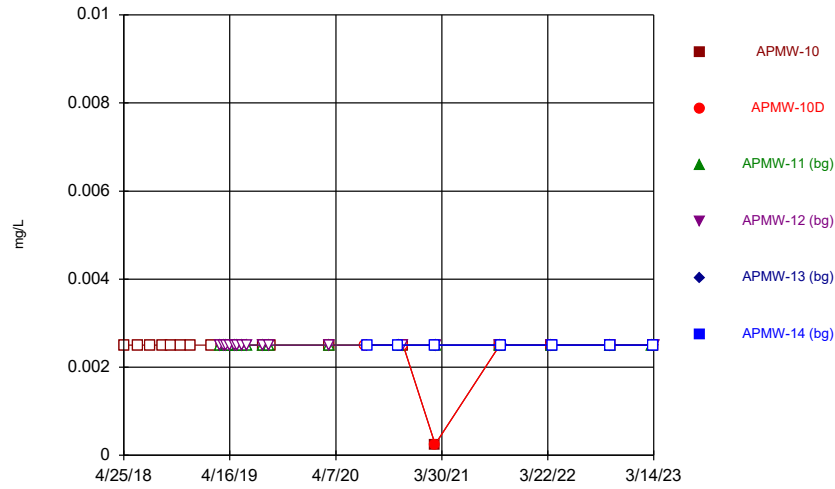
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



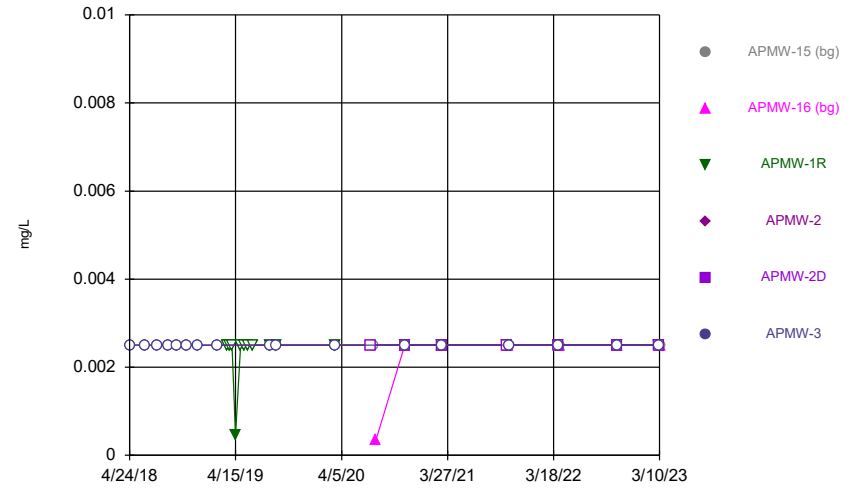
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



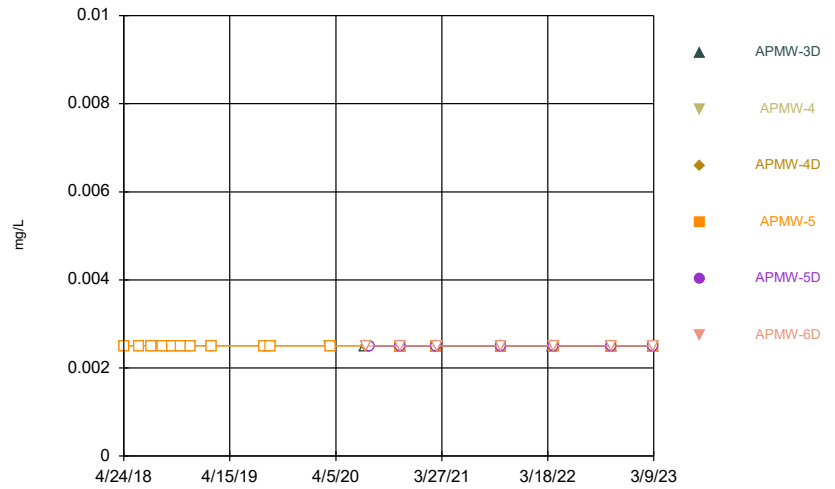
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



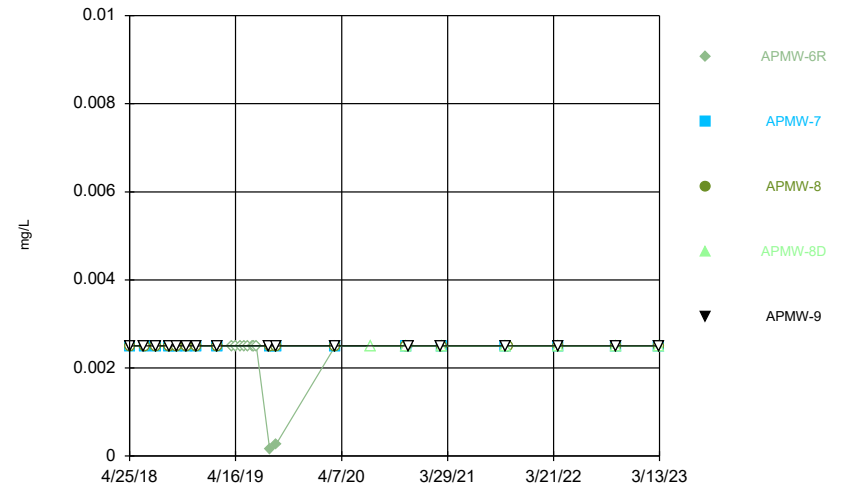
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



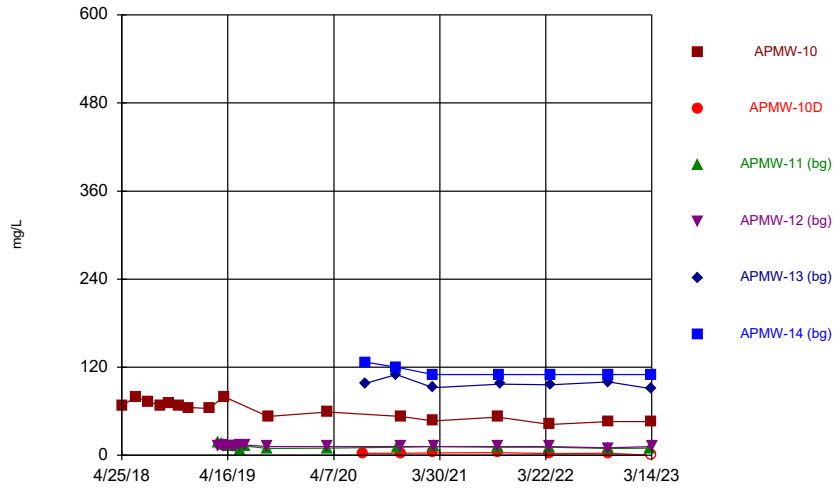
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



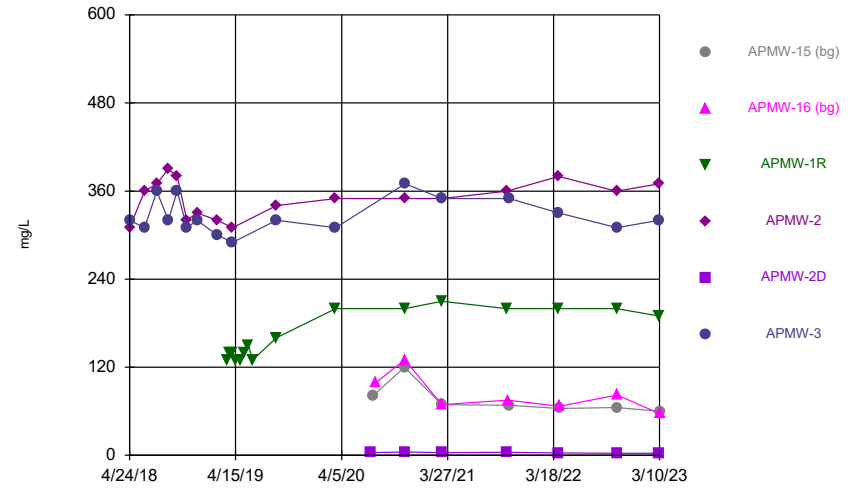
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



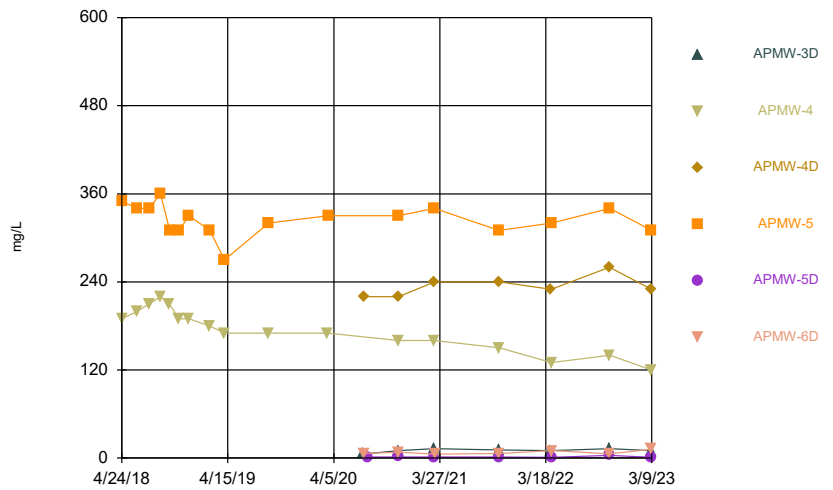
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



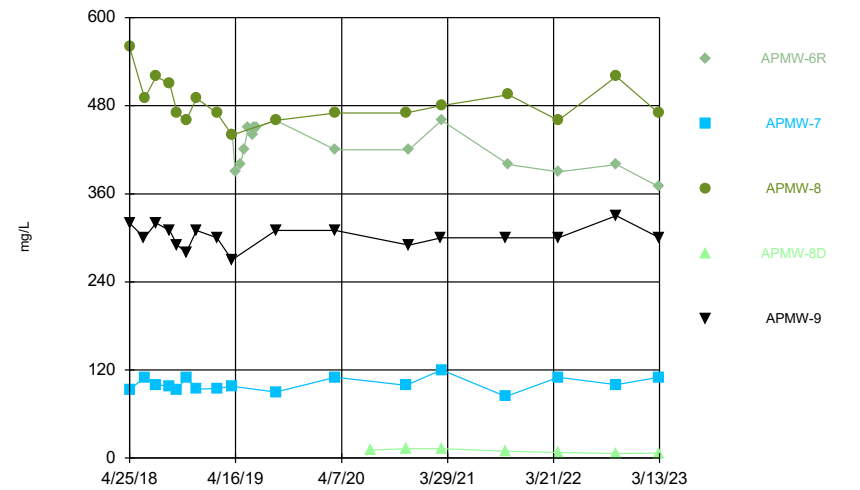
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



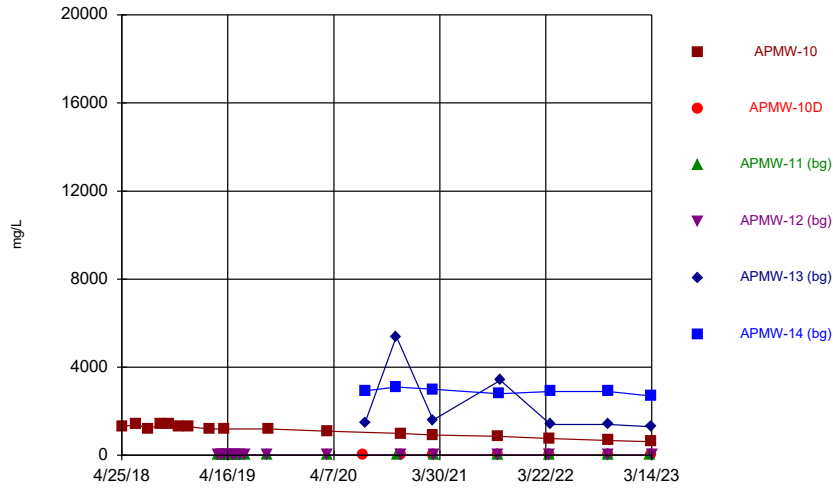
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Time Series



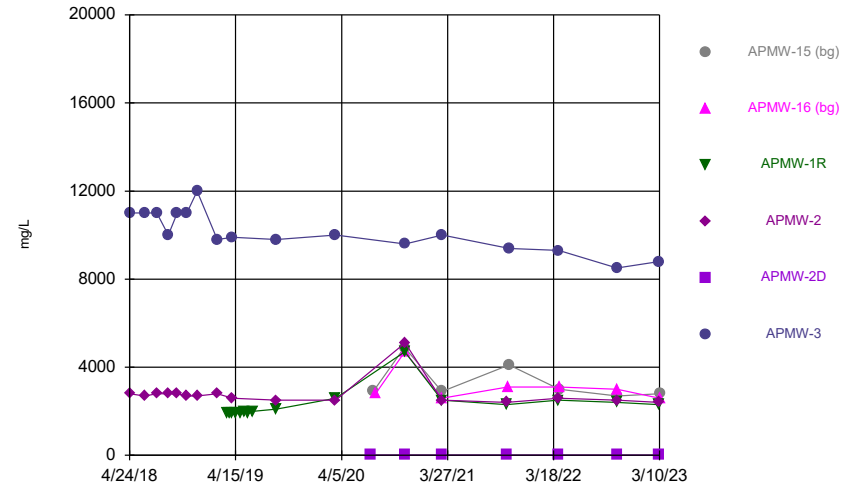
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



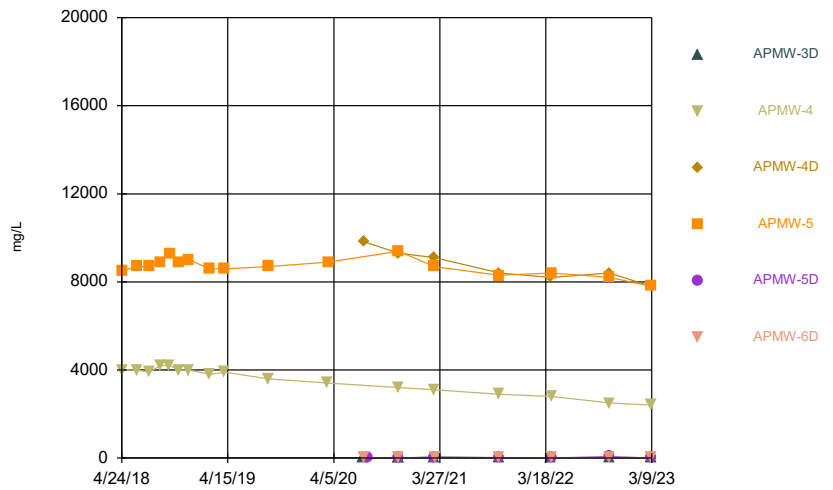
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



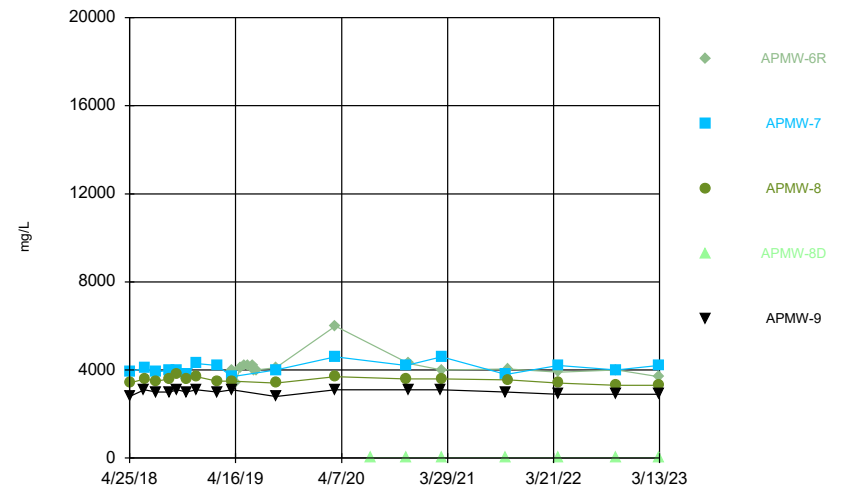
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Time Series



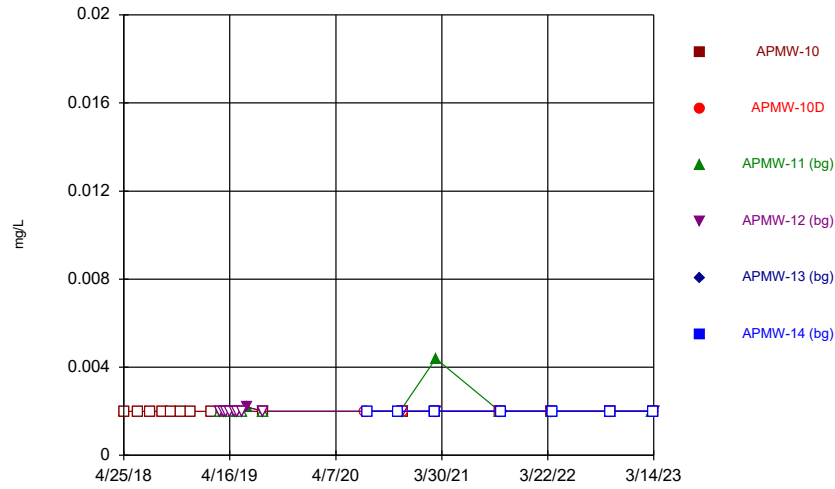
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



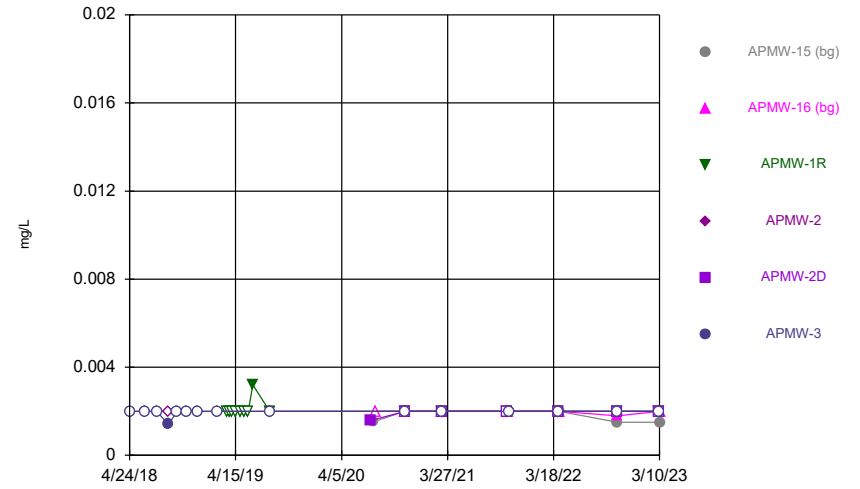
Constituent: Chloride Analysis Run 6/1/2023 10:55 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



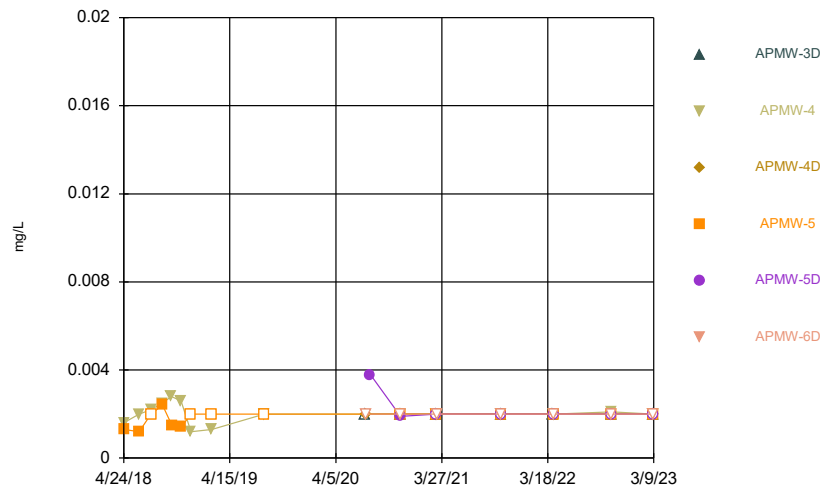
Constituent: Chromium Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



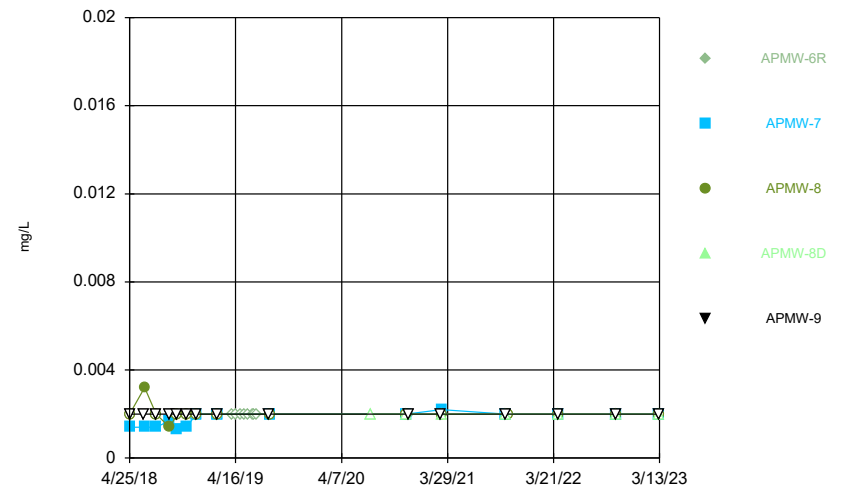
Constituent: Chromium Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



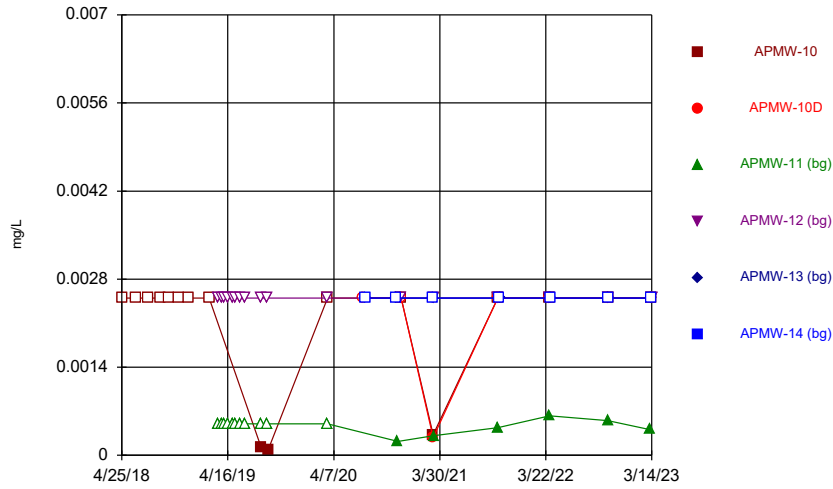
Constituent: Chromium Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



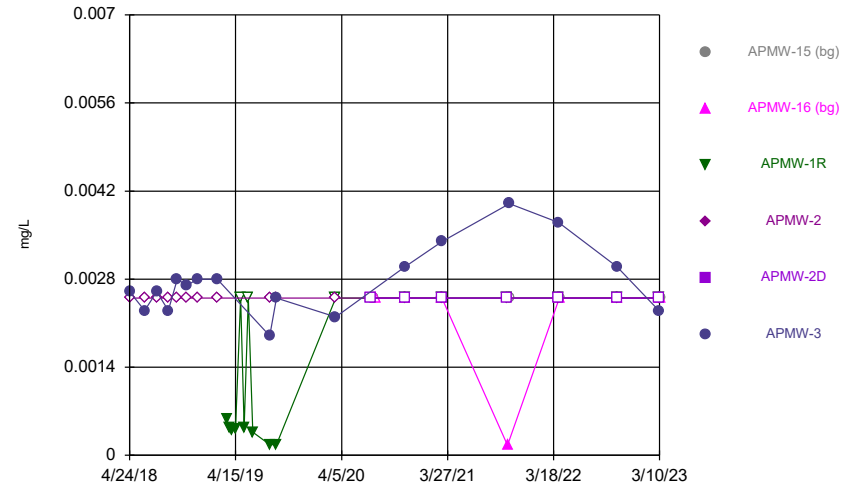
Constituent: Chromium Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



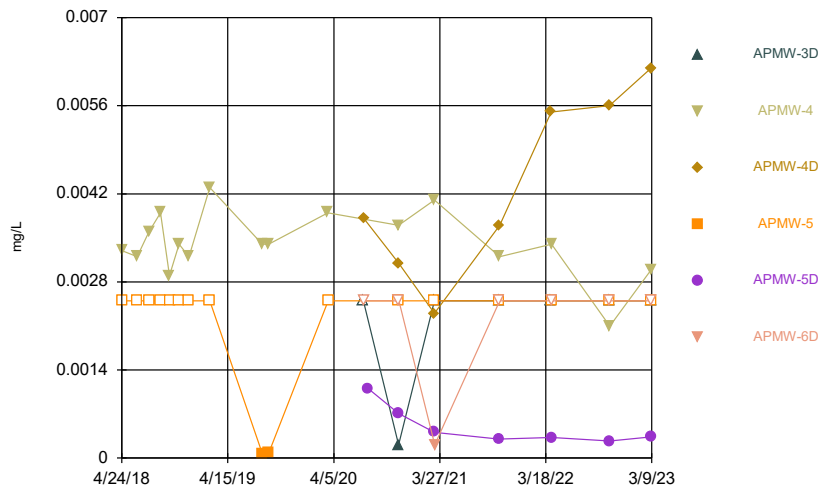
Constituent: Cobalt Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



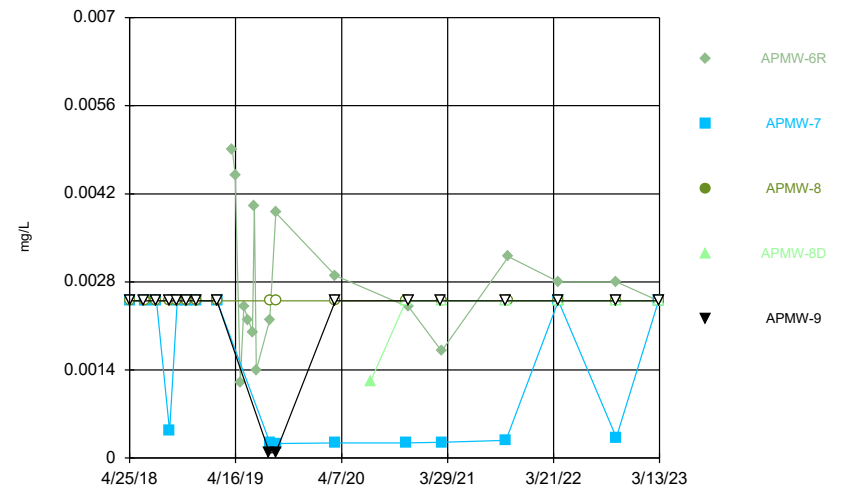
Constituent: Cobalt Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



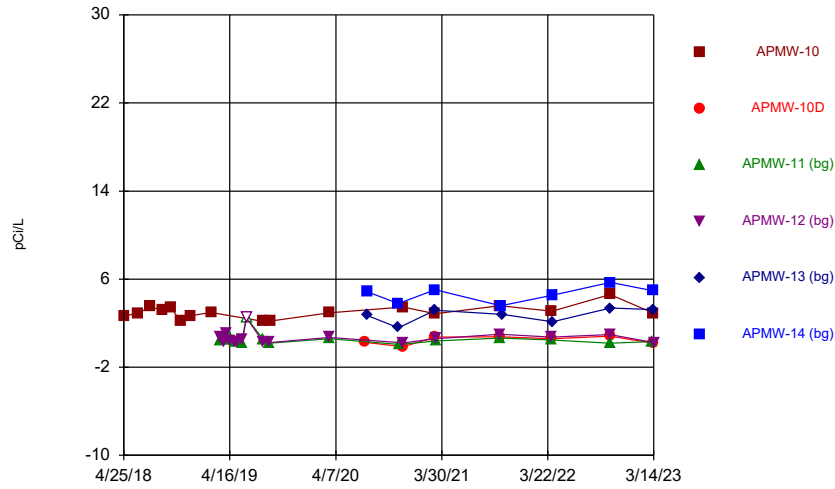
Constituent: Cobalt Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



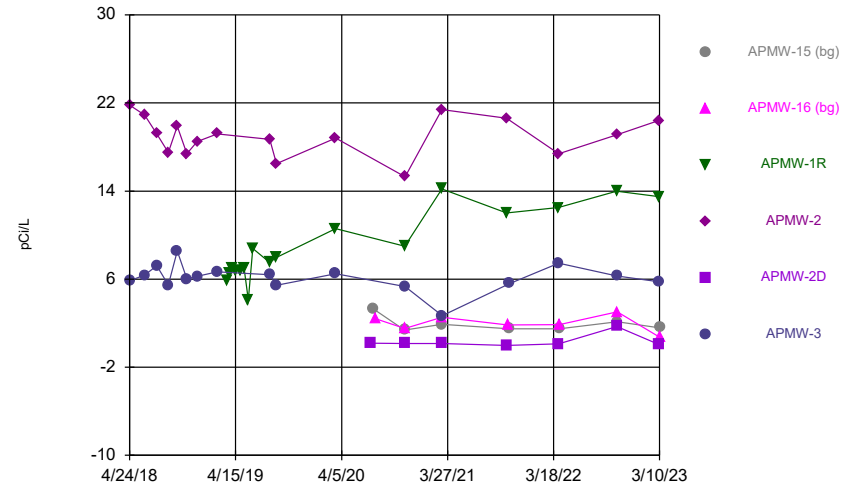
Constituent: Cobalt Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



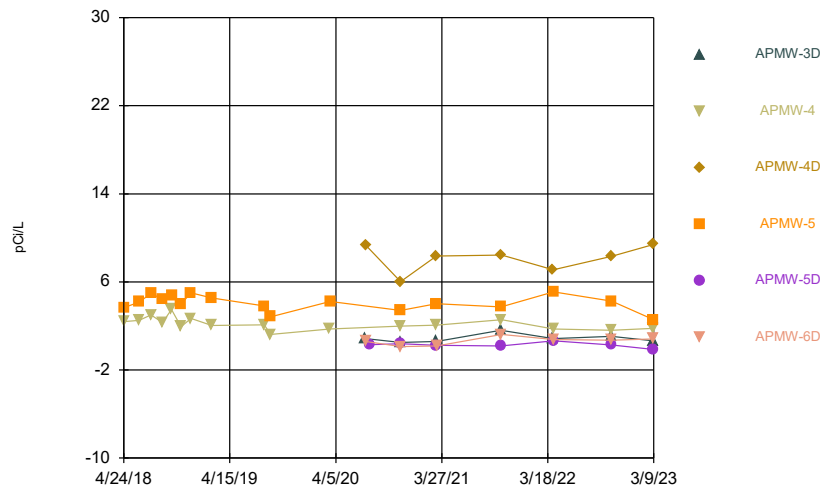
Constituent: Combined Radium 226 + 228 Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



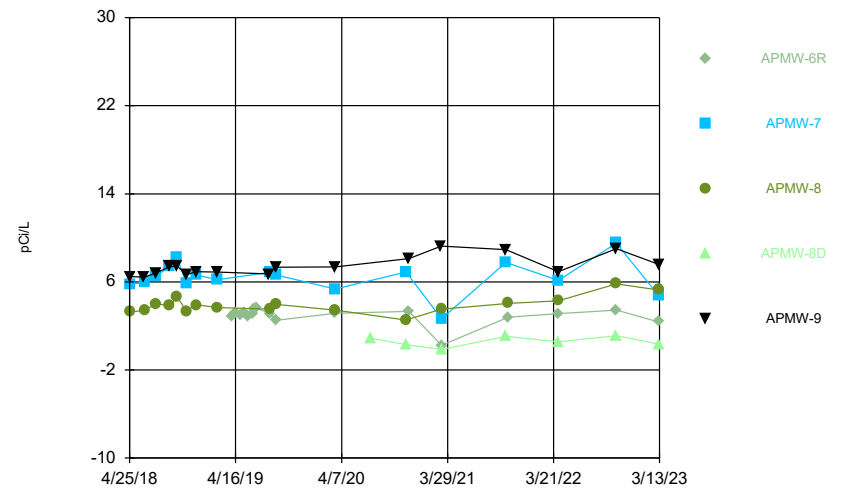
Constituent: Combined Radium 226 + 228 Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



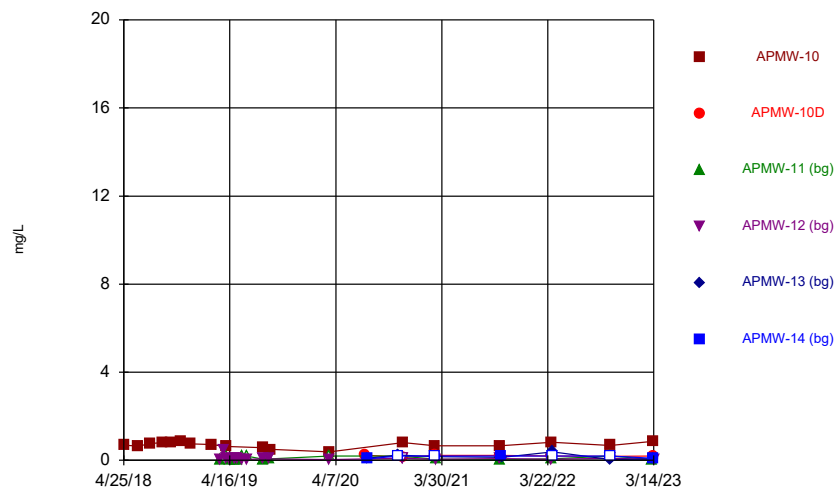
Constituent: Combined Radium 226 + 228 Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



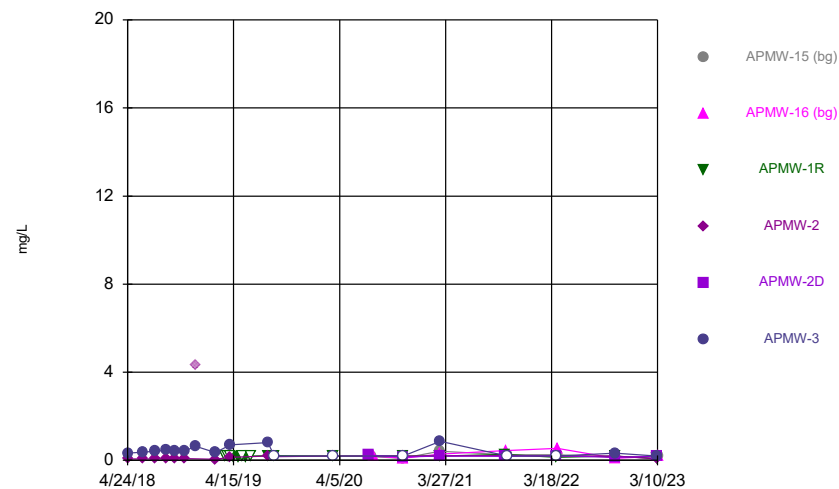
Constituent: Combined Radium 226 + 228 Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



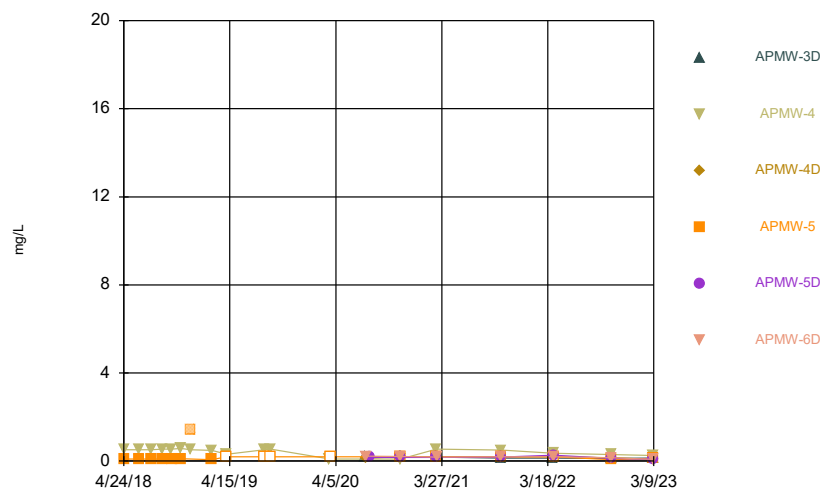
Constituent: Fluoride Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



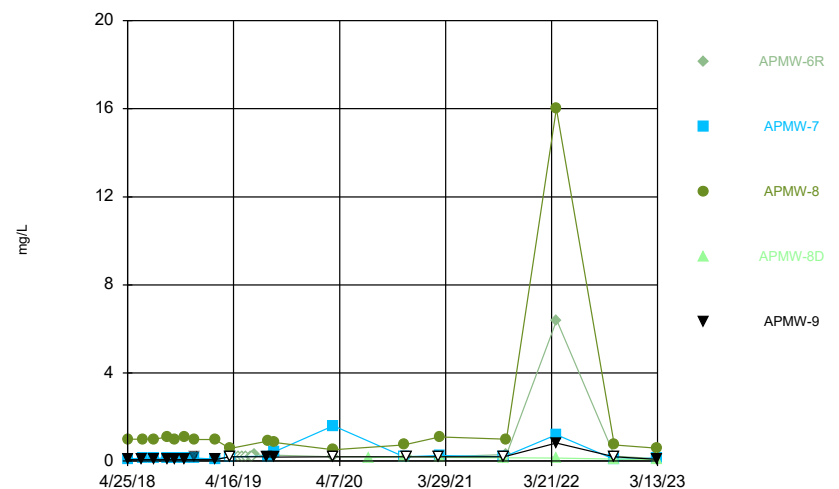
Constituent: Fluoride Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



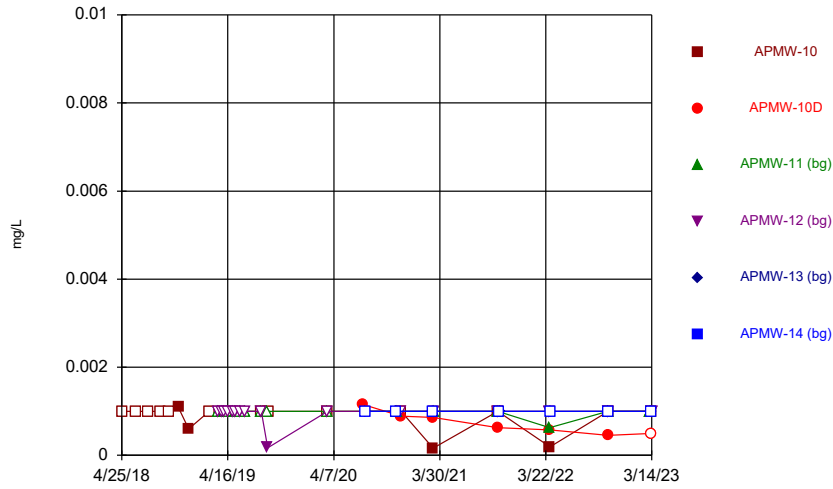
Constituent: Fluoride Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



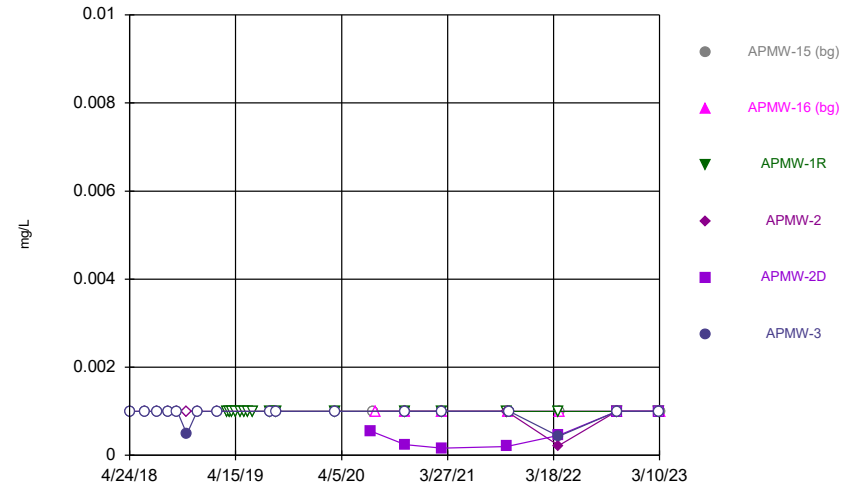
Constituent: Fluoride Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



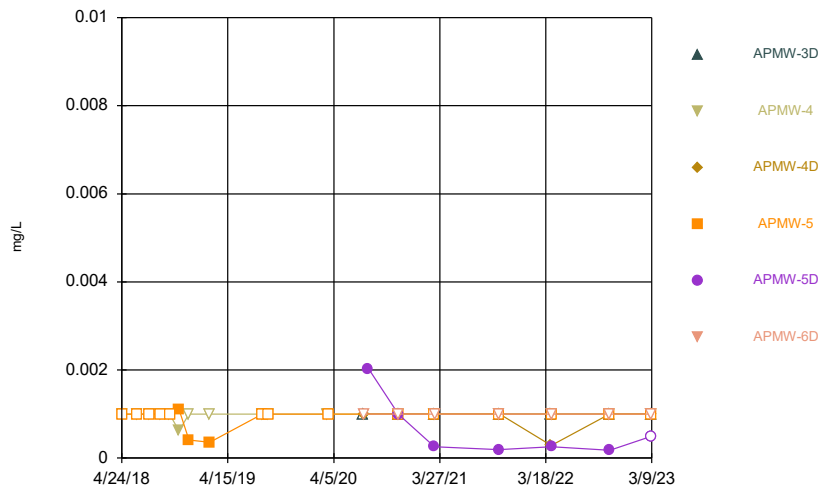
Constituent: Lead Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



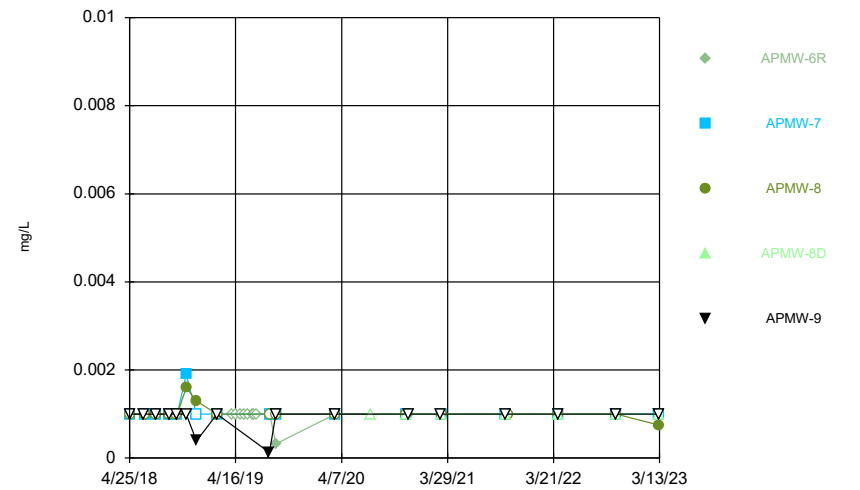
Constituent: Lead Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



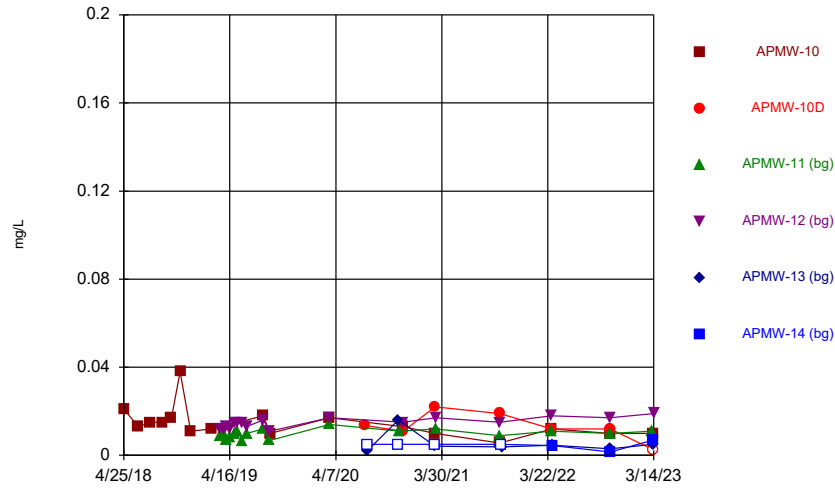
Constituent: Lead Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



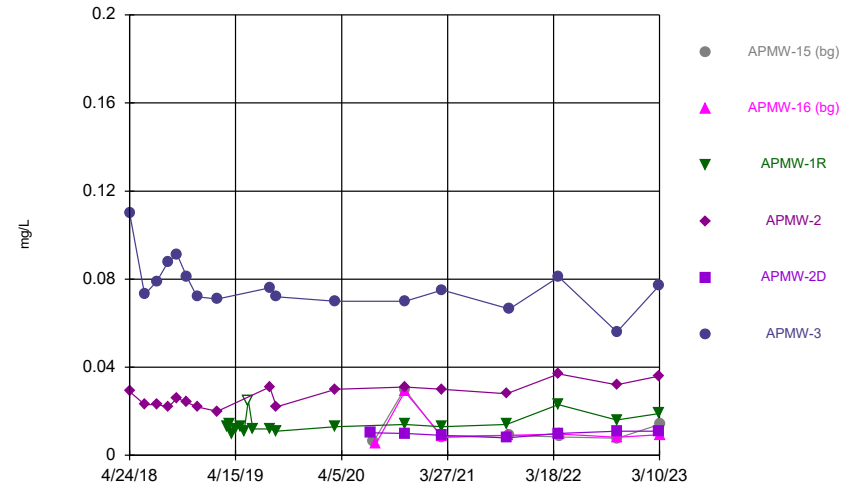
Constituent: Lead Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



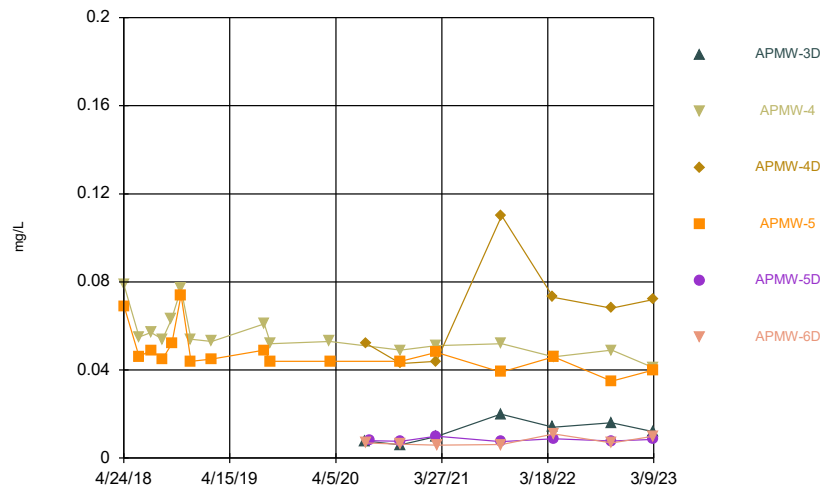
Constituent: Lithium Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



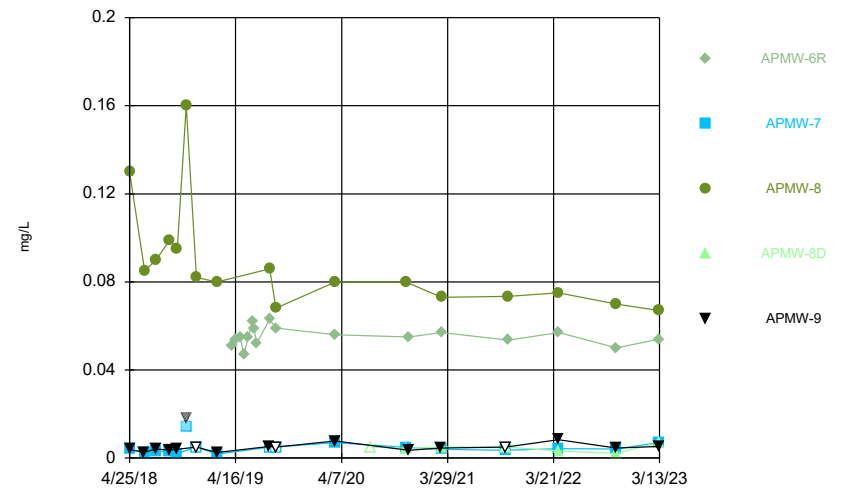
Constituent: Lithium Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



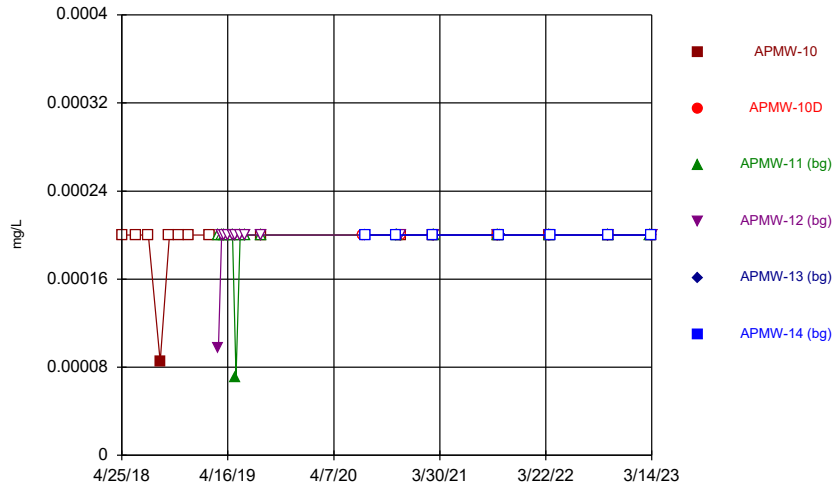
Constituent: Lithium Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



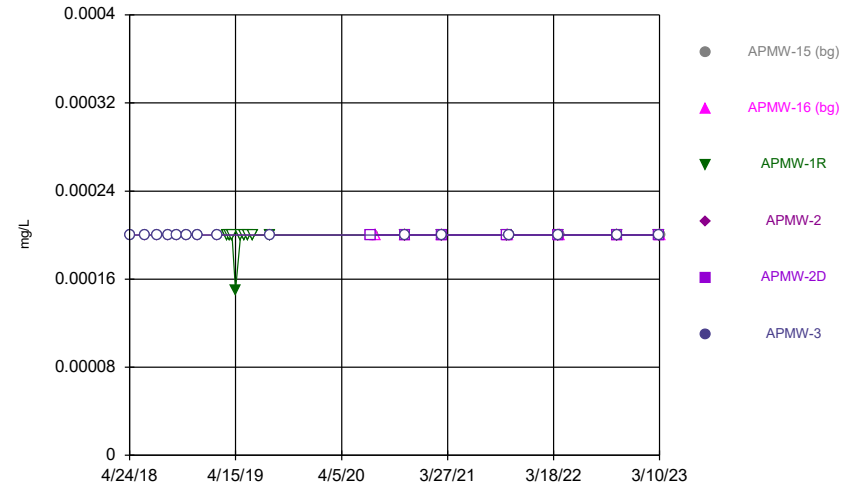
Constituent: Lithium Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



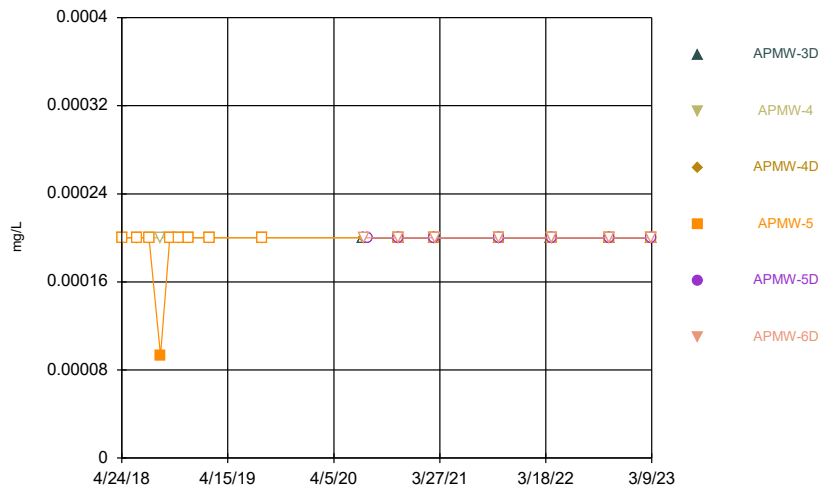
Constituent: Mercury Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



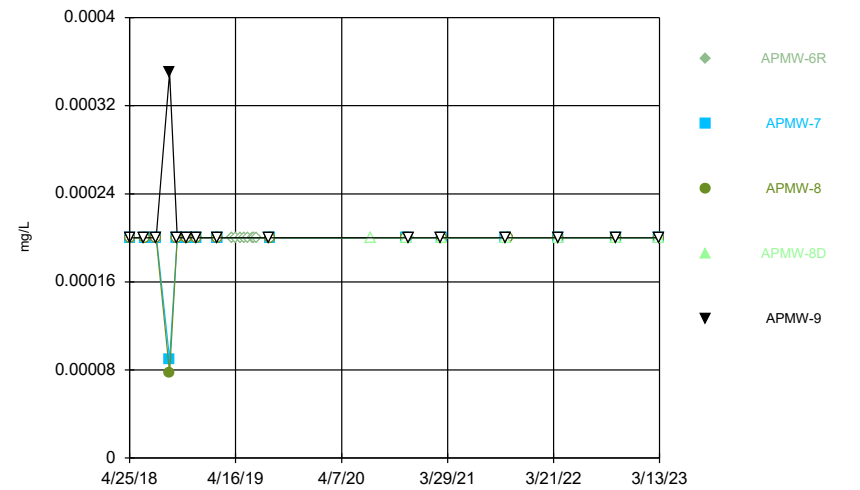
Constituent: Mercury Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



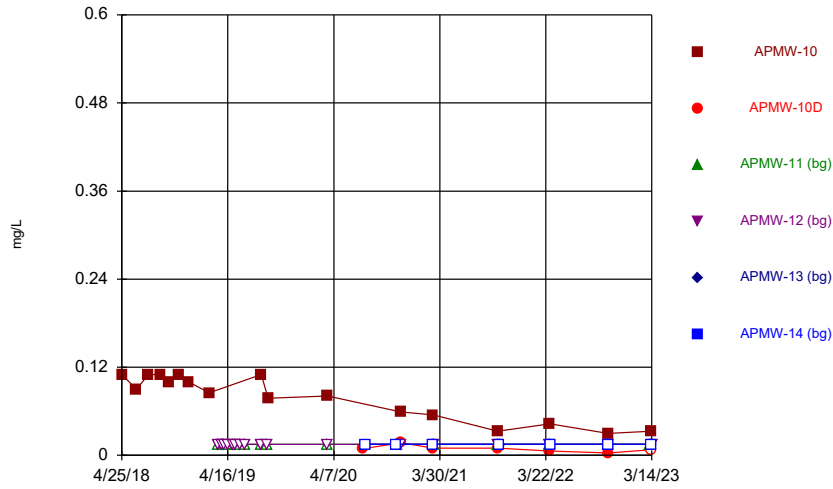
Constituent: Mercury Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



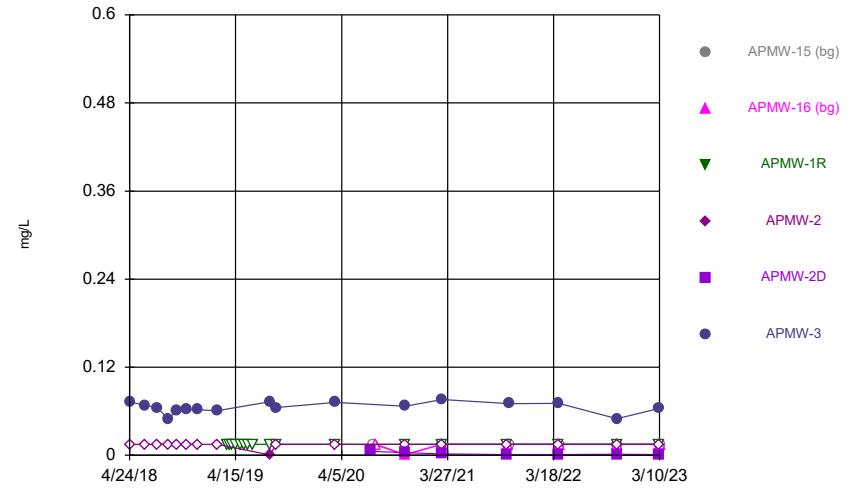
Constituent: Mercury Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



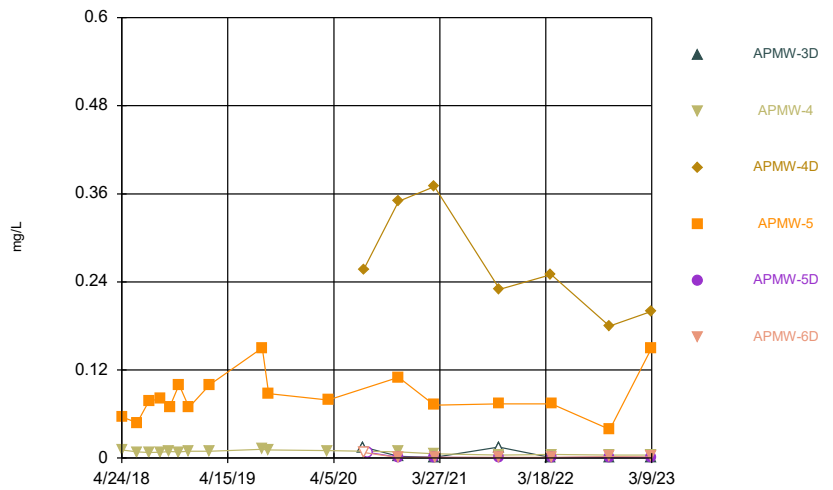
Constituent: Molybdenum Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



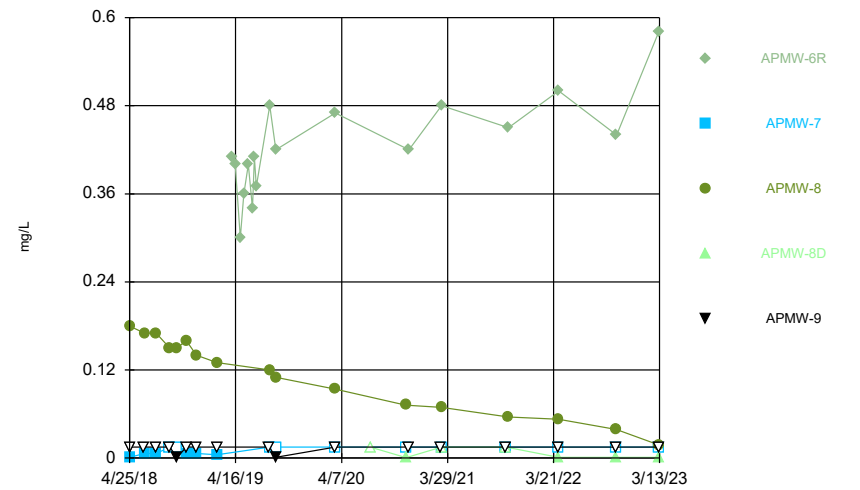
Constituent: Molybdenum Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



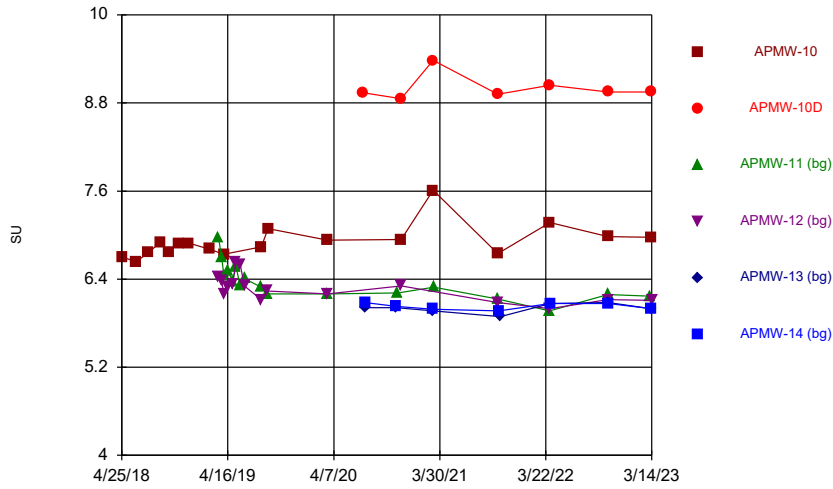
Constituent: Molybdenum Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



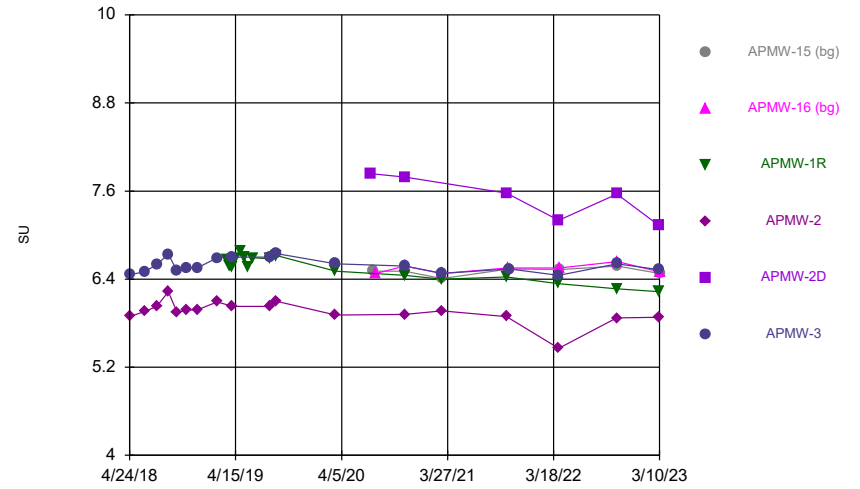
Constituent: Molybdenum Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



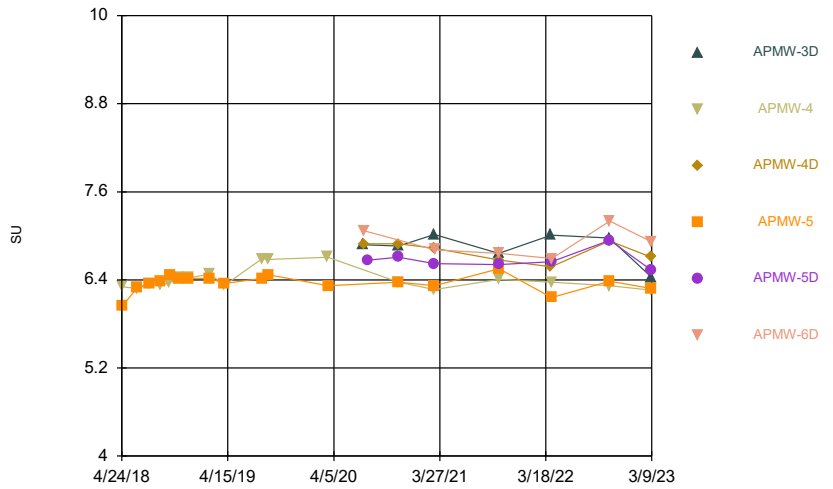
Constituent: pH Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



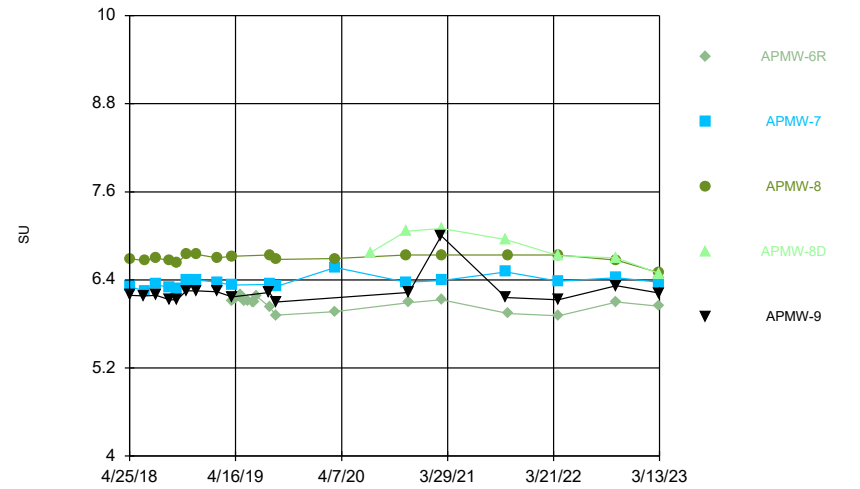
Constituent: pH Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



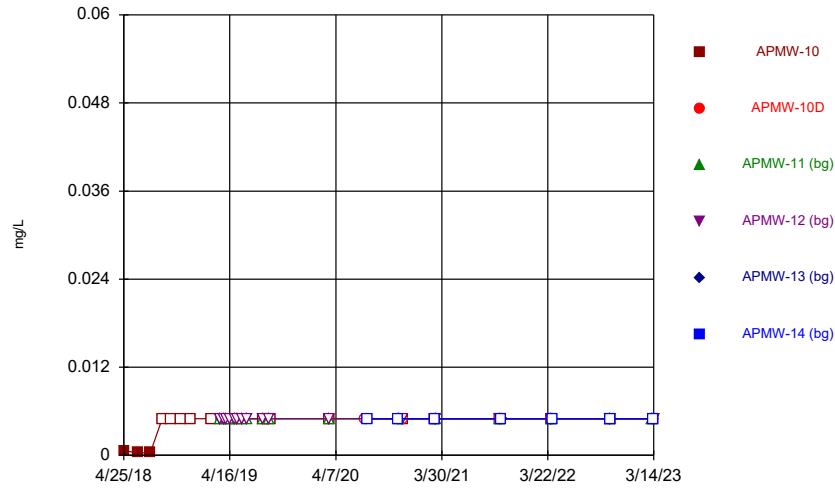
Constituent: pH Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



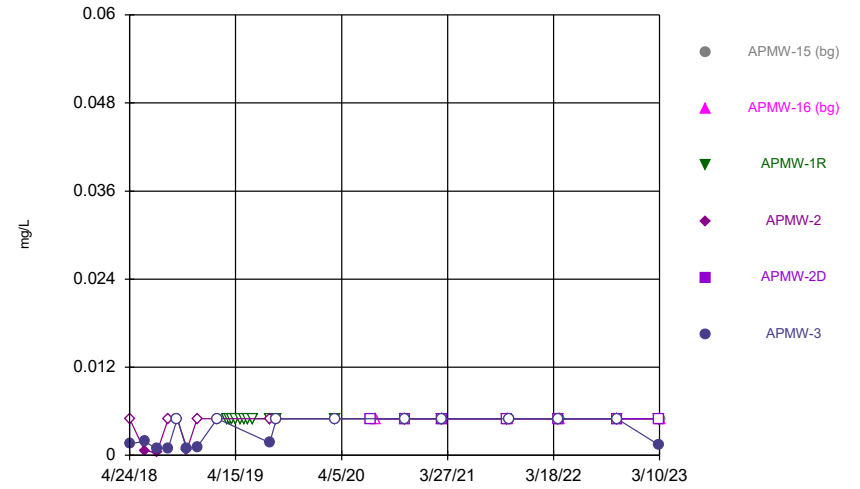
Constituent: pH Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



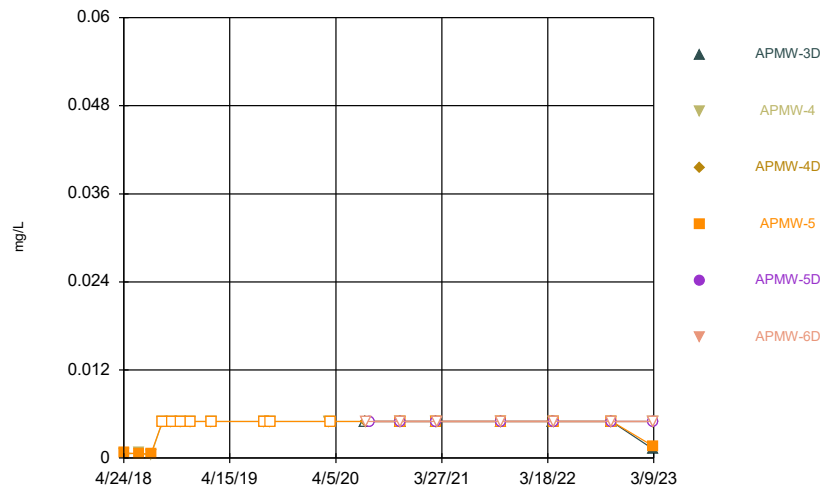
Constituent: Seleniun Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



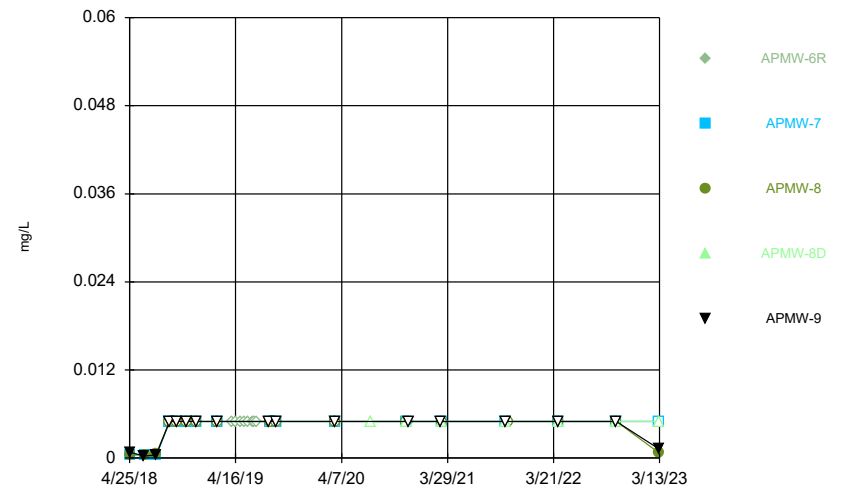
Constituent: Seleniun Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



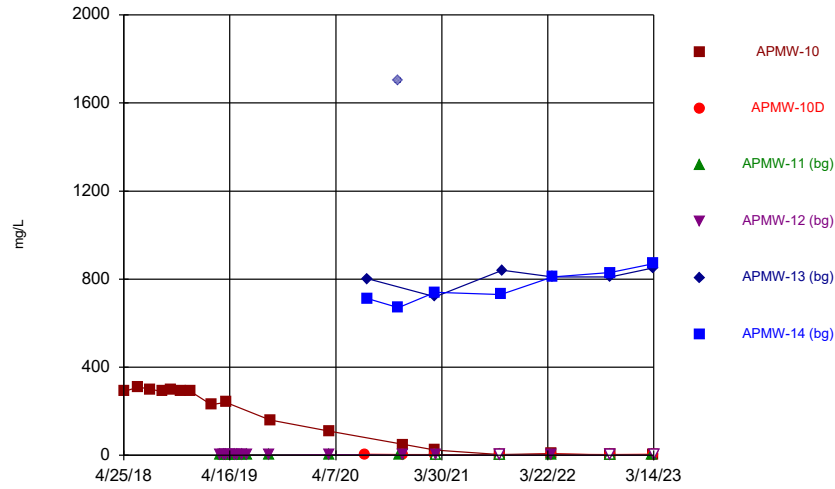
Constituent: Seleniun Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



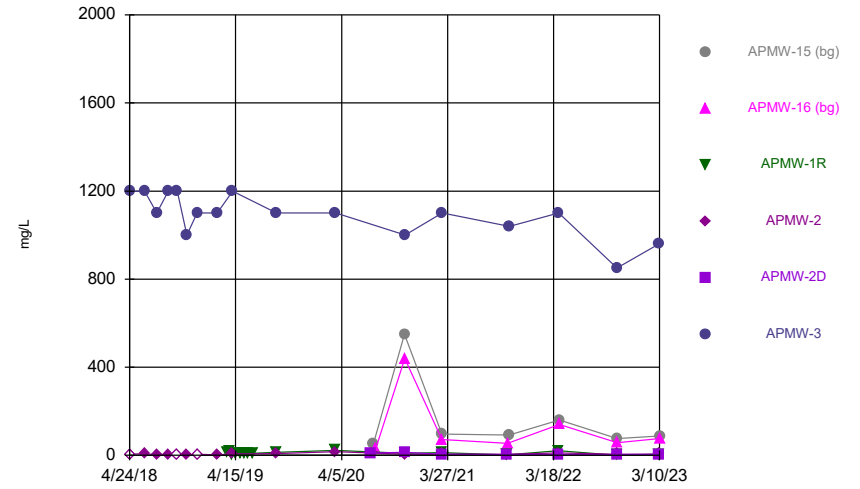
Constituent: Seleniun Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



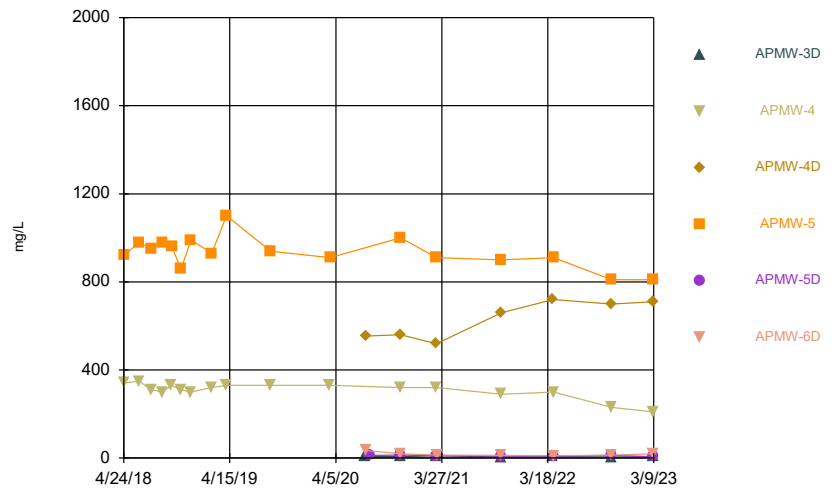
Constituent: Sulfate Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



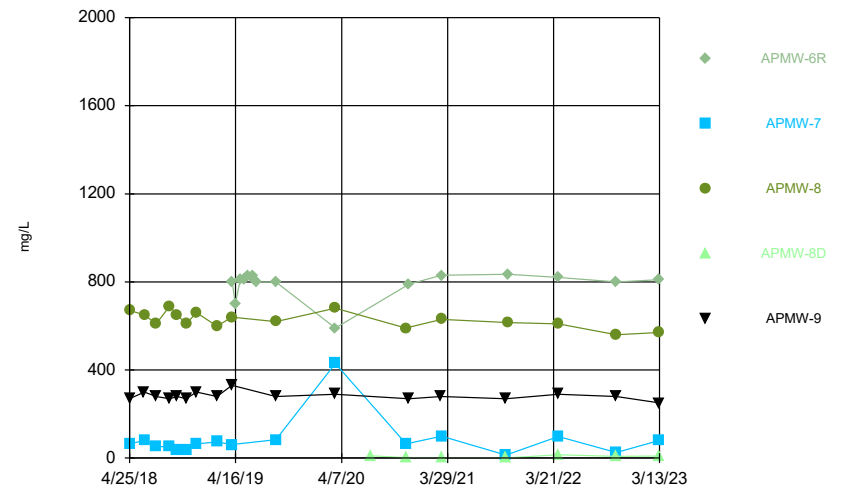
Constituent: Sulfate Analysis Run 6/1/2023 10:55 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



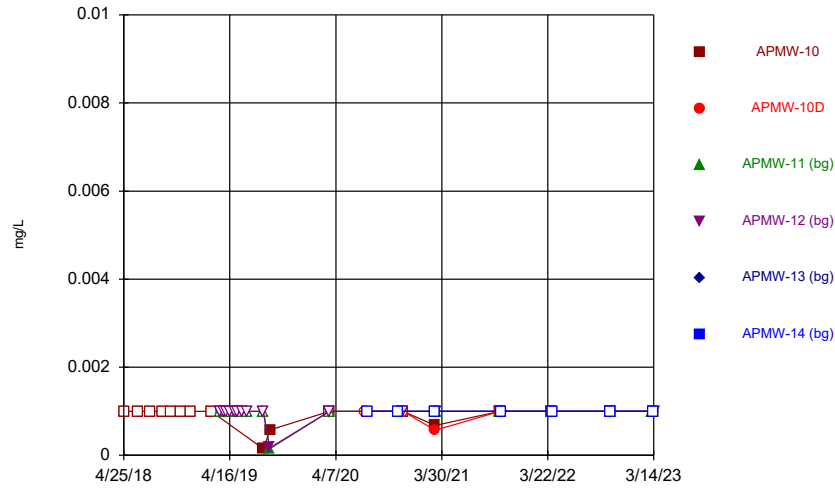
Constituent: Sulfate Analysis Run 6/1/2023 10:56 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



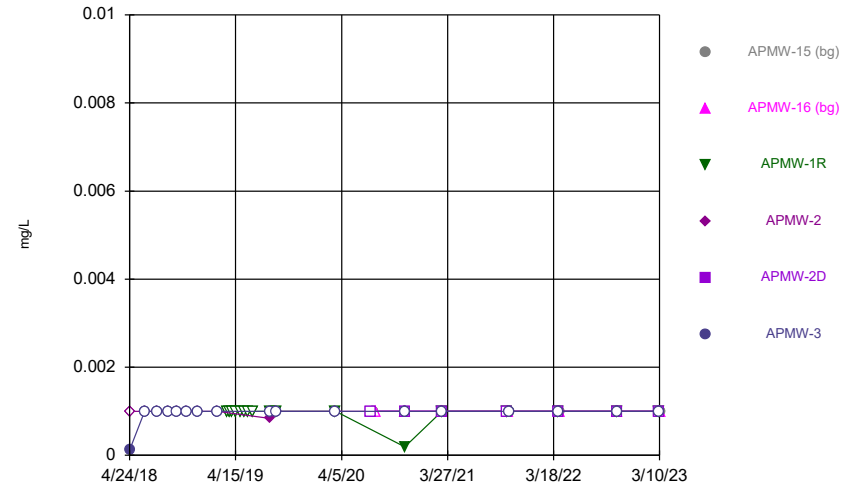
Constituent: Sulfate Analysis Run 6/1/2023 10:56 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



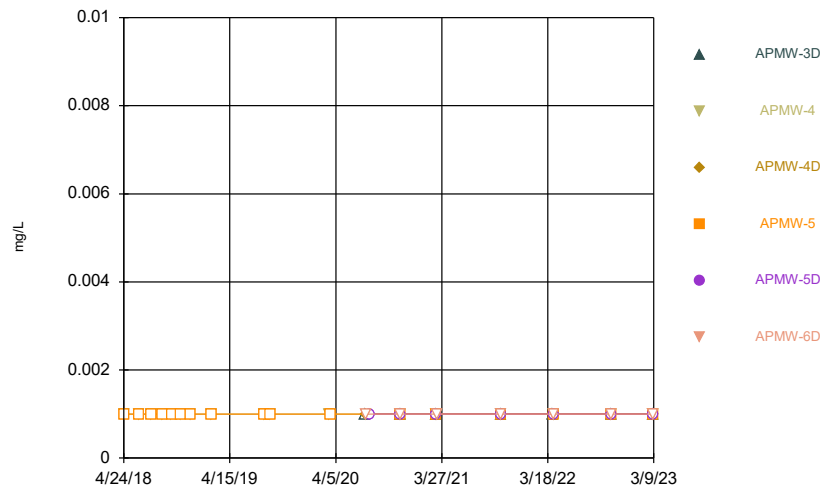
Constituent: Thallium Analysis Run 6/1/2023 10:56 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



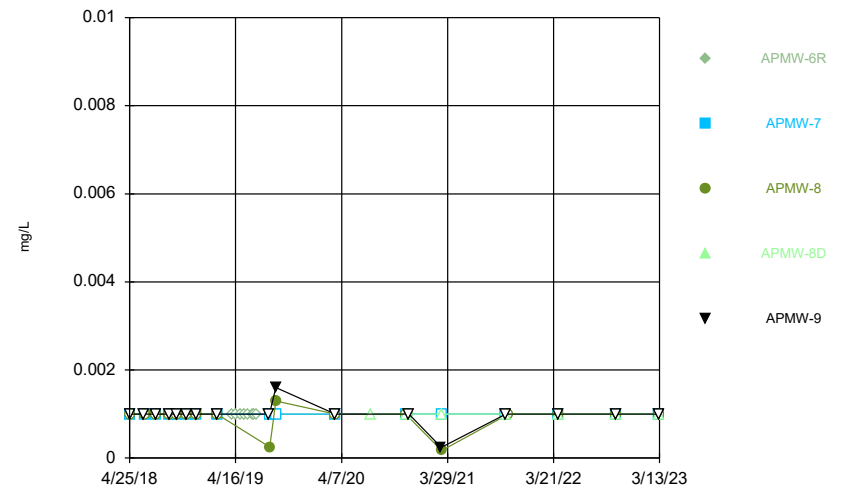
Constituent: Thallium Analysis Run 6/1/2023 10:56 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



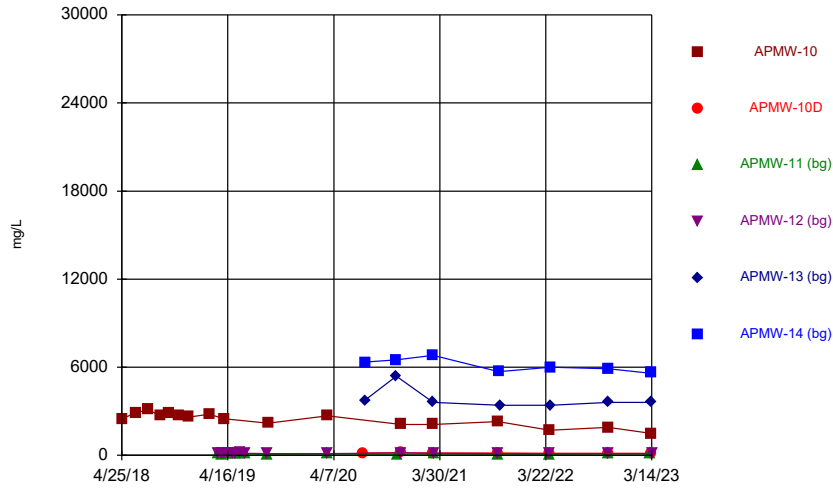
Constituent: Thallium Analysis Run 6/1/2023 10:56 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



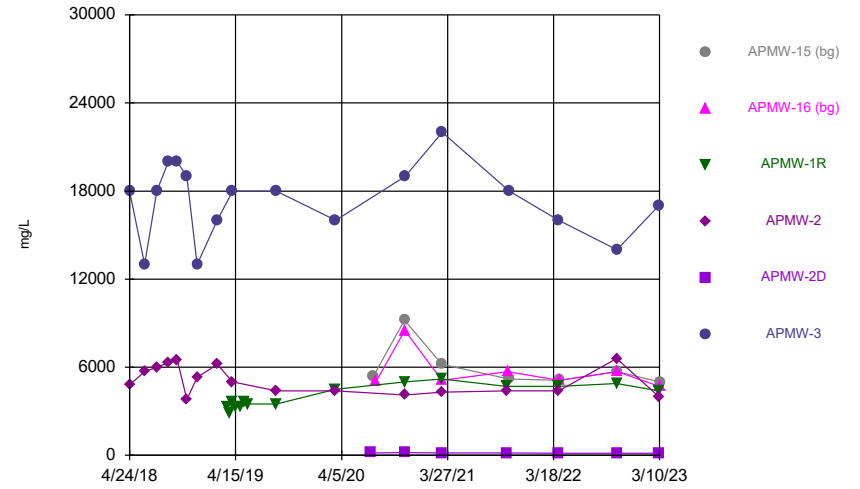
Constituent: Thallium Analysis Run 6/1/2023 10:56 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



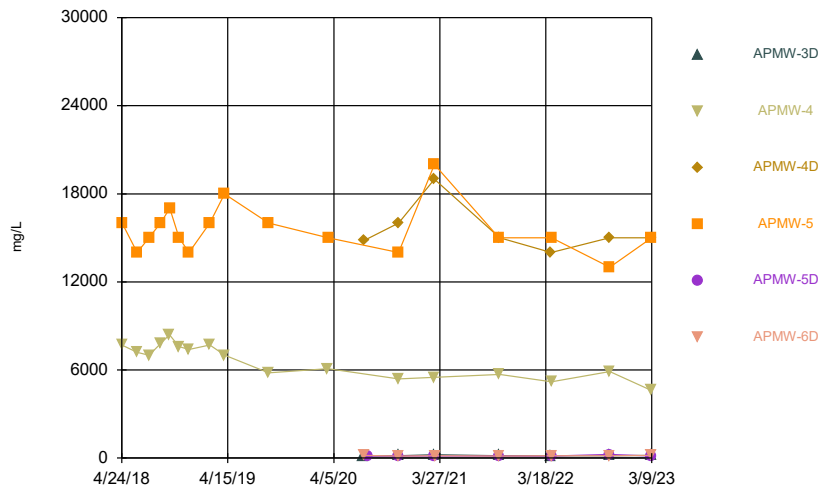
Constituent: Total Dissolved Solids Analysis Run 6/1/2023 10:56 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



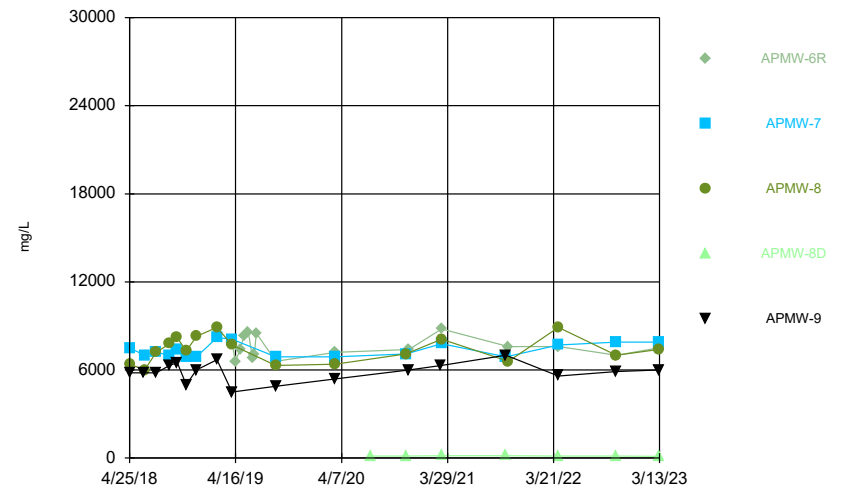
Constituent: Total Dissolved Solids Analysis Run 6/1/2023 10:56 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 6/1/2023 10:56 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 6/1/2023 10:56 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/1/2023 10:56 AM
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
10/17/2022			<0.002	<0.002		
10/18/2022	<0.002	0.00053 (J)				
10/19/2022					<0.002	<0.002
3/7/2023			<0.002			
3/10/2023					<0.002	<0.002
3/13/2023	<0.002	<0.002				
3/14/2023				<0.002		

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/1/2023 10:56 AM

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				
10/17/2022			<0.002	<0.002		
10/18/2022					<0.002	0.00059 (J)
10/19/2022	<0.002	0.00055 (J)				
3/8/2023			<0.002	<0.002	<0.002	<0.002
3/10/2023	<0.002	<0.002				

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/1/2023 10:56 AM
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)
10/18/2022	<0.002		<0.002			
10/19/2022		<0.002		<0.002	<0.002	<0.002
3/8/2023	<0.002	<0.002	<0.002			
3/9/2023				<0.002	<0.002	<0.002

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/1/2023 10:56 AM

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				
10/18/2022		<0.002	<0.002	<0.002	<0.002
10/19/2022	<0.002				
3/9/2023	<0.002	<0.002	<0.002	<0.002	
3/13/2023					<0.002

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/1/2023 10:56 AM
 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
10/17/2022			<0.001	0.00034 (J)		
10/18/2022	0.037	0.0054				
10/19/2022					<0.001	0.00033 (J)
3/7/2023			<0.001			
3/10/2023					<0.001	0.00034 (J)
3/13/2023	0.032	<0.001				
3/14/2023				<0.001		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/1/2023 10:56 AM
 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)				
10/17/2022			0.00031 (J)	<0.001		
10/18/2022					0.0028	0.061
10/19/2022	0.00062 (J)	0.0011				
3/8/2023			0.0004 (J)	<0.001	0.0032	0.072
3/10/2023	0.00078 (J)	0.00073 (J)				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/1/2023 10:56 AM
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
10/18/2022	0.0037		0.0028			
10/19/2022		0.0073		0.18	0.014	0.0031
3/8/2023	0.0027	0.0075	0.0031			
3/9/2023				0.22	0.016	0.0041

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/1/2023 10:56 AM
 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				
10/18/2022		0.00066 (J)	0.02	0.0027	0.0014
10/19/2022	0.21				
3/9/2023	0.22	0.00051 (J)	0.011	0.0021	
3/13/2023					0.0014

Time Series

Constituent: Barium (mg/L) Analysis Run 6/1/2023 10:56 AM
 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
10/17/2022			0.037	0.057		
10/18/2022	0.37	0.027				
10/19/2022					0.23	0.19
3/7/2023			0.034			
3/10/2023					0.22	0.19
3/13/2023	0.38	<0.01				
3/14/2023				0.062		

Time Series

Constituent: Barium (mg/L) Analysis Run 6/1/2023 10:56 AM
 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				
10/17/2022			1.7	3.4		
10/18/2022					0.067	0.096
10/19/2022	0.043	0.069				
3/8/2023			1.8	3.6	0.06	0.11
3/10/2023	0.045	0.055				

Time Series

Constituent: Barium (mg/L) Analysis Run 6/1/2023 10:56 AM
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
10/18/2022	0.19		0.088			
10/19/2022		0.23		0.1	0.053	0.073
3/8/2023	0.16	0.17	0.083			
3/9/2023				0.11	0.043	0.15

Time Series

Constituent: Barium (mg/L) Analysis Run 6/1/2023 10:56 AM
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)				
10/18/2022		0.97	0.24	0.1	0.5
10/19/2022	0.044				
3/9/2023	0.046	0.65	0.3	0.1	
3/13/2023					0.55

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/1/2023 10:56 AM
 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
10/17/2022			<0.0025	<0.0025		
10/18/2022	<0.0025	<0.0025				
10/19/2022					<0.0025	<0.0025
3/7/2023			<0.0025			
3/10/2023					<0.0025	<0.0025
3/13/2023	<0.0025	<0.0025				
3/14/2023				<0.0025		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/1/2023 10:56 AM

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				
10/17/2022			<0.0025	<0.0025		
10/18/2022					<0.0025	<0.0025
10/19/2022	<0.0025	<0.0025				
3/8/2023			<0.0025	<0.0025	<0.0025	<0.0025
3/10/2023	<0.0025	<0.0025				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/1/2023 10:56 AM
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
10/18/2022	<0.0025		<0.0025			
10/19/2022		<0.0025		<0.0025	<0.0025	<0.0025
3/8/2023	<0.0025	<0.0025	<0.0025			
3/9/2023				<0.0025	<0.0025	<0.0025

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/1/2023 10:56 AM
 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				
10/18/2022		<0.0025	<0.0025	<0.0025	<0.0025
10/19/2022	<0.0025				
3/9/2023	<0.0025	<0.0025	0.0003 (J)	<0.0025	
3/13/2023					0.00027 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 6/1/2023 10:56 AM
 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
10/17/2022			<0.08	<0.08		
10/18/2022	2.4	0.21				
10/19/2022					0.66	0.75
3/7/2023			<0.08			
3/10/2023					0.66	0.69
3/13/2023	2.1	0.11				
3/14/2023				<0.08		

Time Series

Constituent: Boron (mg/L) Analysis Run 6/1/2023 10:56 AM

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				
10/17/2022			1.3	3.1		
10/18/2022					0.16	5.6
10/19/2022	0.73	0.71				
3/8/2023			5.3	3.6	0.11	5.7
3/10/2023	0.66	0.67				

Time Series

Constituent: Boron (mg/L) Analysis Run 6/1/2023 10:56 AM

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
10/18/2022	0.11		3.4			
10/19/2022		1.3		6.5	0.14	0.13
3/8/2023	0.13	0.89	3.9			
3/9/2023				6.6	0.083	0.11

Time Series

Constituent: Boron (mg/L) Analysis Run 6/1/2023 10:56 AM

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				
10/18/2022		1.2	23	0.14	7.1
10/19/2022	11				
3/9/2023	11	0.87	19	0.091	
3/13/2023					6.2

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/1/2023 10:56 AM
 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
10/17/2022			<0.0025	<0.0025		
10/18/2022	<0.0025	<0.0025				
10/19/2022					<0.0025	<0.0025
3/7/2023			<0.0025			
3/10/2023					<0.0025	<0.0025
3/13/2023	<0.0025	<0.0025				
3/14/2023				<0.0025		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/1/2023 10:56 AM

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				
10/17/2022			<0.0025	<0.0025		
10/18/2022					<0.0025	<0.0025
10/19/2022	<0.0025	<0.0025				
3/8/2023			<0.0025	<0.0025	<0.0025	<0.0025
3/10/2023	<0.0025	<0.0025				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/1/2023 10:56 AM
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
10/18/2022	<0.0025		<0.0025			
10/19/2022		<0.0025		<0.0025	<0.0025	<0.0025
3/8/2023	<0.0025	<0.0025	<0.0025			
3/9/2023				<0.0025	<0.0025	<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/1/2023 10:56 AM

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				
10/18/2022		<0.0025	<0.0025	<0.0025	<0.0025
10/19/2022	<0.0025				
3/9/2023	<0.0025	<0.0025	<0.0025	<0.0025	
3/13/2023					<0.0025

Time Series

Constituent: Calcium (mg/L) Analysis Run 6/1/2023 10:56 AM
 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
10/17/2022			9.5	10		
10/18/2022	46	2.7				
10/19/2022					100	110
3/7/2023			9.7			
3/10/2023					91	110
3/13/2023	46	<0.5				
3/14/2023				12		

Time Series

Constituent: Calcium (mg/L) Analysis Run 6/1/2023 10:56 AM

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				
10/17/2022			200	360		
10/18/2022					2.6	310
10/19/2022	65	82				
3/8/2023			190	370	2.8	320
3/10/2023	60	57				

Time Series

Constituent: Calcium (mg/L) Analysis Run 6/1/2023 10:56 AM

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
10/18/2022	13		260			
10/19/2022		140		340	3.5	6
3/8/2023	10	120	230			
3/9/2023				310	1.1	12

Time Series

Constituent: Calcium (mg/L) Analysis Run 6/1/2023 10:56 AM
 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				
10/18/2022		100	520	6.1	330
10/19/2022	400				
3/9/2023	370	110	470	6.6	
3/13/2023					300

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/1/2023 10:56 AM
 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
10/17/2022			7.5	13		
10/18/2022	680	4.3				
10/19/2022					1400	2900
3/7/2023			7.7			
3/10/2023					1300	2700
3/13/2023	620	5				
3/14/2023				14		

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/1/2023 10:56 AM

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				
10/17/2022			2400	2500		
10/18/2022					4.4	8500
10/19/2022	2700	3000				
3/8/2023			2300	2400	4.7	8800
3/10/2023	2800	2600				

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/1/2023 10:56 AM
 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
10/18/2022	23		8400			
10/19/2022		2500		8200	64	11
3/8/2023	16	2400	7800			
3/9/2023				7800	7.4	20

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/1/2023 10:56 AM

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				
10/18/2022		4000	3300	6.1	2900
10/19/2022	4000				
3/9/2023	3700	4200	3300	6.7	
3/13/2023					2900

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/1/2023 10:56 AM
 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
10/17/2022			<0.002	<0.002		
10/18/2022	<0.002	<0.002				
10/19/2022					<0.002	<0.002
3/7/2023			<0.002			
3/10/2023					<0.002	<0.002
3/13/2023	<0.002	<0.002				
3/14/2023				<0.002		

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/1/2023 10:56 AM
 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				
10/17/2022			<0.002	<0.002		
10/18/2022					<0.002	<0.002
10/19/2022	0.0015 (J)	0.0018 (J)				
3/8/2023			<0.002	<0.002	<0.002	<0.002
3/10/2023	0.0015 (J)	<0.002				

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/1/2023 10:56 AM
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
10/18/2022	<0.002		<0.002			
10/19/2022		0.0021		<0.002	<0.002	<0.002
3/8/2023	<0.002	<0.002	<0.002			
3/9/2023				<0.002	<0.002	<0.002

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/1/2023 10:56 AM
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				
10/18/2022		<0.002	<0.002	<0.002	<0.002
10/19/2022	<0.002				
3/9/2023	<0.002	<0.002	<0.002	<0.002	
3/13/2023					<0.002

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/1/2023 10:56 AM
 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			<0.0005	<0.0025		
3/27/2019			<0.0005 (D)	<0.0025 (D)		
4/3/2019			<0.0005 (D)	<0.0025 (D)		
4/16/2019			<0.0005	<0.0025		
5/3/2019			<0.0005	<0.0025		
5/14/2019			<0.0005	<0.0025		
5/29/2019			<0.0005	<0.0025		
6/12/2019			<0.0005	<0.0025		
8/8/2019	0.00012 (J)		<0.0005	<0.0025		
8/29/2019			<0.0005	<0.0025		
8/30/2019	8.2E-05 (J)					
3/17/2020	<0.0025		<0.0005	<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
10/17/2022			0.00055 (J)	<0.0025		
10/18/2022	<0.0025	<0.0025				
10/19/2022					<0.0025	<0.0025
3/7/2023			0.00041 (J)			
3/10/2023					<0.0025	<0.0025
3/13/2023	<0.0025	<0.0025				
3/14/2023				<0.0025		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/1/2023 10:56 AM
 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				
10/17/2022			<0.0025	<0.0025		
10/18/2022					<0.0025	0.003
10/19/2022	<0.0025	<0.0025				
3/8/2023			<0.0025	<0.0025	<0.0025	0.0023 (J)
3/10/2023	<0.0025	<0.0025				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/1/2023 10:56 AM
 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
10/18/2022	<0.0025		0.0056			
10/19/2022		0.0021 (J)		<0.0025	0.00027 (J)	<0.0025
3/8/2023	<0.0025	0.003	0.0062			
3/9/2023				<0.0025	0.00034 (J)	<0.0025

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/1/2023 10:56 AM
 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				
10/18/2022		0.00033 (J)	<0.0025	<0.0025	<0.0025
10/19/2022	0.0028				
3/9/2023	0.0025	<0.0025	<0.0025	<0.0025	
3/13/2023					<0.0025

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/1/2023 10:56 AM

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
10/17/2022			0.184 (U)	0.971		
10/18/2022	4.61	0.815				
10/19/2022					3.37	5.71
3/7/2023			0.316 (U)			
3/10/2023					3.24	4.94
3/13/2023	2.92	0.18 (U)				
3/14/2023				0.228 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/1/2023 10:56 AM

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				
10/17/2022			14	19.1		
10/18/2022					1.7	6.3
10/19/2022	2.13	3.02				
3/8/2023			13.5	20.4	0.0718 (U)	5.77
3/10/2023	1.59	0.722 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/1/2023 10:56 AM

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
10/18/2022	1.07		8.32			
10/19/2022		1.61		4.24	0.259 (U)	0.7
3/8/2023	0.636	1.78	9.4			
3/9/2023				2.58	-0.134 (U)	0.833

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/1/2023 10:56 AM

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				
10/18/2022		9.51	5.83	1.12	9.03
10/19/2022	3.45				
3/9/2023	2.37	4.77	5.27	0.353 (U)	
3/13/2023					7.57

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/1/2023 10:56 AM
 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			<0.2 (D)	0.49 (D)		
4/3/2019			<0.2 (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			<0.2	0.042 (J)		
6/12/2019			<0.2	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		<0.2	0.036 (J)		
7/13/2020		0.24				
7/21/2020				0.09 (J)	0.07 (J)	
11/4/2020				0.24 (J)	<0.2	
11/9/2020			<0.2			
11/20/2020	0.81	0.13 (J)		<0.2		
3/8/2021	0.66	0.23			0.17 (J)	<0.2
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)	<0.2
10/17/2022			<0.2	<0.2		
10/18/2022	0.68	0.18 (J)				
10/19/2022					0.034 (J)	<0.2
3/7/2023			0.051 (J)			
3/10/2023					0.064 (J)	0.094 (J)
3/13/2023	0.87	0.19 (J)				
3/14/2023				0.045 (J)		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/1/2023 10:56 AM

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			<0.2			
3/27/2019			<0.2			
4/3/2019			<0.2			
4/5/2019				0.14 (J)		0.7 (J)
4/15/2019			0.14 (J)			
5/2/2019			0.13 (J)			
5/14/2019			<0.2			
5/28/2019			0.16 (J)			
6/12/2019			<0.2			
8/8/2019			0.21 (J)	0.19 (J)		0.8 (J)
8/30/2019			0.21 (J)	0.17 (J)		<0.2
3/16/2020			<0.2	<0.2		<0.2
7/11/2020					0.24	
7/21/2020	0.17					
7/30/2020		0.19				
11/3/2020	<0.2					
11/4/2020		<0.2	<0.2			
11/5/2020				<0.2	0.15 (J)	<0.2
3/8/2021	0.41 (J)	0.28 (J)	<0.2	<0.2	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						<0.2
4/4/2022			0.13 (J)			
4/5/2022				<0.2	0.21	<0.2
4/7/2022	0.25 (J)	0.54 (J)				
10/17/2022			<0.2	<0.2		
10/18/2022					0.14 (J)	0.32 (J)
10/19/2022	0.13 (J)	0.094 (J)				
3/8/2023			0.086 (J)	0.068 (J)	0.18 (J)	0.19 (J)
3/10/2023	0.19 (J)	0.18 (J)				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/1/2023 10:56 AM
 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				<0.2		
4/5/2019		0.31 (J)				
8/9/2019		0.51		<0.2		
8/30/2019		0.54 (J)		<0.2		
3/16/2020		<0.2				
3/17/2020				<0.2		
7/13/2020	0.17					
7/14/2020			0.14			0.22
7/30/2020					0.17	
11/9/2020	0.18 (J)	<0.2	<0.2	<0.2	0.17 (J)	
11/10/2020						0.21
3/9/2021	0.18 (J)	0.55 (J)	<0.2	<0.2	0.17 (J)	
3/10/2021						0.18 (J)
10/11/2021	0.14 (J)				0.18 (J)	
10/12/2021				<0.2		
10/14/2021		0.5 (J)	<0.2			0.19 (J)
4/5/2022	0.13 (J)		<0.2			
4/6/2022		0.36 (J)		<0.2	0.27	
4/7/2022						0.2
10/18/2022	0.12 (J)		0.15 (J)			
10/19/2022		0.29		0.065 (J)	0.12 (J)	0.15 (J)
3/8/2023	0.14 (J)	0.25	0.074 (J)			
3/9/2023				0.12 (J)	0.077 (J)	0.08 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/1/2023 10:56 AM

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		<0.2	0.58 (J)		<0.2
4/5/2019	<0.2 (D)				
4/15/2019	<0.2				
5/2/2019	<0.2				
5/14/2019	<0.2				
5/29/2019	<0.2				
6/12/2019	<0.2				
6/19/2019	<0.2				
6/25/2019	0.32 (J)				
8/8/2019					0.2 (J)
8/9/2019	<0.2	0.22 (J)	0.9 (J)		
8/30/2019	0.27 (J)	0.41 (J)	0.85 (J)		0.18 (J)
3/17/2020	<0.2	1.6	0.52 (J)		<0.2
7/13/2020				0.15	
11/9/2020			0.74 (J)		
11/10/2020		<0.2		0.22	
11/20/2020	<0.2				<0.2
3/8/2021					<0.2
3/9/2021	<0.2	0.26 (J)	1.1 (J)	0.17 (J)	
10/12/2021		<0.2		0.15 (J)	<0.2
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				
10/18/2022		0.084 (J)	0.73	0.091 (J)	<0.2
10/19/2022	0.22				
3/9/2023	0.11 (J)	0.14 (J)	0.59	0.066 (J)	
3/13/2023					0.081 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 6/1/2023 10:56 AM
 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
10/17/2022			<0.001	<0.001		
10/18/2022	<0.001	0.00045 (J)				
10/19/2022					<0.001	<0.001
3/7/2023			<0.001			
3/10/2023					<0.001	<0.001
3/13/2023	<0.001	<0.001				
3/14/2023				<0.001		

Time Series

Constituent: Lead (mg/L) Analysis Run 6/1/2023 10:56 AM

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				
10/17/2022			<0.001	<0.001		
10/18/2022					<0.001	<0.001
10/19/2022	<0.001	<0.001				
3/8/2023			<0.001	<0.001	<0.001	<0.001
3/10/2023	<0.001	<0.001				

Time Series

Constituent: Lead (mg/L) Analysis Run 6/1/2023 10:56 AM

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
10/18/2022	<0.001		<0.001			
10/19/2022		<0.001		<0.001	0.00018 (J)	<0.001
3/8/2023	<0.001	<0.001	<0.001			
3/9/2023				<0.001	<0.001	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 6/1/2023 10:56 AM

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				
10/18/2022		<0.001	<0.001	<0.001	<0.001
10/19/2022	<0.001				
3/9/2023	<0.001	<0.001	0.00075 (J)	<0.001	
3/13/2023					<0.001

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/1/2023 10:56 AM
 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)
10/17/2022			0.01	0.017		
10/18/2022	0.01	0.012				
10/19/2022					0.0029 (J)	0.0015 (J)
3/7/2023			0.011			
3/10/2023					0.005	0.0069
3/13/2023	0.01	<0.005				
3/14/2023				0.019		

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/1/2023 10:56 AM
 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			<0.05			
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				
10/17/2022			0.016	0.032		
10/18/2022					0.011	0.056
10/19/2022	0.0077	0.0082				
3/8/2023			0.019	0.036	0.011	0.077
3/10/2023	0.014	0.0093				

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/1/2023 10:56 AM
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
10/18/2022	0.016		0.068			
10/19/2022		0.049		0.035	0.0077	0.0069
3/8/2023	0.012	0.041	0.072			
3/9/2023				0.04	0.0085	0.01

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/1/2023 10:56 AM
 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				
10/18/2022		0.0041 (J)	0.07	0.0021 (J)	0.0046 (J)
10/19/2022	0.05				
3/9/2023	0.054	0.0071	0.067	0.0071	
3/13/2023					0.0053

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/1/2023 10:56 AM
 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
10/17/2022			<0.0002	<0.0002		
10/18/2022	<0.0002	<0.0002				
10/19/2022					<0.0002	<0.0002
3/7/2023			<0.0002			
3/10/2023					<0.0002	<0.0002
3/13/2023	<0.0002	<0.0002				
3/14/2023				<0.0002		

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/1/2023 10:56 AM

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				
10/17/2022			<0.0002	<0.0002		
10/18/2022					<0.0002	<0.0002
10/19/2022	<0.0002	<0.0002				
3/8/2023			<0.0002	<0.0002	<0.0002	<0.0002
3/10/2023	<0.0002	<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/1/2023 10:56 AM

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
10/18/2022	<0.0002		<0.0002			
10/19/2022		<0.0002		<0.0002	<0.0002	<0.0002
3/8/2023	<0.0002	<0.0002	<0.0002			
3/9/2023				<0.0002	<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/1/2023 10:56 AM

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				
10/18/2022		<0.0002	<0.0002	<0.0002	<0.0002
10/19/2022	<0.0002				
3/9/2023	<0.0002	<0.0002	<0.0002	<0.0002	
3/13/2023					<0.0002

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/1/2023 10:56 AM
 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
10/17/2022			<0.015	<0.015		
10/18/2022	0.03	0.0033 (J)				
10/19/2022					<0.015	<0.015
3/7/2023			<0.015			
3/10/2023					<0.015	<0.015
3/13/2023	0.033	<0.015				
3/14/2023				<0.015		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/1/2023 10:56 AM
 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				
10/17/2022			<0.015	<0.015		
10/18/2022					0.0016 (J)	0.05
10/19/2022	<0.015	<0.015				
3/8/2023			<0.015	<0.015	0.0011 (J)	0.064
3/10/2023	<0.015	<0.015				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/1/2023 10:56 AM
 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)
10/18/2022	0.00072 (J)		0.18			
10/19/2022		0.0043 (J)		0.039	0.0014 (J)	0.0019 (J)
3/8/2023	0.00074 (J)	0.0042 (J)	0.2			
3/9/2023				0.15	0.00085 (J)	0.0017 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/1/2023 10:56 AM
 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				
10/18/2022		<0.015	0.039	0.0012 (J)	<0.015
10/19/2022	0.44				
3/9/2023	0.58	<0.015	0.018	0.00086 (J)	
3/13/2023					<0.015

Time Series

Constituent: pH (SU) Analysis Run 6/1/2023 10:56 AM

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
10/17/2022			6.19	6.12		
10/18/2022	6.98	8.95				
10/19/2022					6.08	6.07
3/7/2023			6.17			
3/10/2023					6	6
3/13/2023	6.97	8.95				
3/14/2023				6.11		

Time Series

Constituent: pH (SU) Analysis Run 6/1/2023 10:56 AM

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				
10/17/2022			6.27	5.87		
10/18/2022					7.56	6.61
10/19/2022	6.58	6.64				
3/8/2023			6.23	5.88	7.13	6.53
3/10/2023	6.48	6.5				

Time Series

Constituent: pH (SU) Analysis Run 6/1/2023 10:56 AM

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
10/18/2022	6.97		6.93			
10/19/2022		6.32		6.38	6.94	7.2
3/8/2023	6.44	6.26	6.71			
3/9/2023				6.28	6.53	6.92

Time Series

Constituent: pH (SU) Analysis Run 6/1/2023 10:56 AM

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				
10/18/2022		6.43	6.67	6.7	6.32
10/19/2022	6.1				
3/9/2023	6.04	6.37	6.5	6.49	
3/13/2023					6.22

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/1/2023 10:56 AM
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
10/17/2022			<0.005	<0.005		
10/18/2022	<0.005	<0.005				
10/19/2022					<0.005	<0.005
3/7/2023			<0.005			
3/10/2023					<0.005	<0.005
3/13/2023	<0.005	<0.005				
3/14/2023				<0.005		

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/1/2023 10:56 AM

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				
10/17/2022			<0.005	<0.005		
10/18/2022					<0.005	<0.005
10/19/2022	<0.005	<0.005				
3/8/2023			<0.005	<0.005	<0.005	0.0014 (J)
3/10/2023	<0.005	<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/1/2023 10:56 AM
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
10/18/2022	<0.005		<0.005			
10/19/2022		<0.005		<0.005	<0.005	<0.005
3/8/2023	0.0012 (J)	<0.005	<0.005			
3/9/2023				0.0016 (J)	<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/1/2023 10:56 AM

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				
10/18/2022		<0.005	<0.005	<0.005	<0.005
10/19/2022	<0.005				
3/9/2023	<0.005	<0.005	0.00076 (J)	<0.005	
3/13/2023					0.0012 (J)

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/1/2023 10:56 AM
 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			<1	1.1		
10/11/2021			<1	<1		
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
10/17/2022			<1	<1		
10/18/2022	<2.5	3.7				
10/19/2022					810	830
3/7/2023			0.82 (J)			
3/10/2023					850	870
3/13/2023	2.5	5.3				
3/14/2023				<1		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/1/2023 10:56 AM
 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				
10/17/2022			1.2	5.6		
10/18/2022					3	850
10/19/2022	76	57				
3/8/2023			5	5.6	4.3	960
3/10/2023	88	76				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/1/2023 10:56 AM
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
10/18/2022	5.3		700			
10/19/2022		230		810	12	13
3/8/2023	6.2	210	710			
3/9/2023				810	6.3	19

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/1/2023 10:56 AM
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				
10/18/2022		25	560	7.6	280
10/19/2022	800				
3/9/2023	810	79	570	9.3	
3/13/2023					250

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/1/2023 10:56 AM
 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
10/17/2022			<0.001	<0.001		
10/18/2022	<0.001	<0.001				
10/19/2022					<0.001	<0.001
3/7/2023			<0.001			
3/10/2023					<0.001	<0.001
3/13/2023	<0.001	<0.001				
3/14/2023				<0.001		

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/1/2023 10:56 AM

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				
10/17/2022			<0.001	<0.001		
10/18/2022					<0.001	<0.001
10/19/2022	<0.001	<0.001				
3/8/2023			<0.001	<0.001	<0.001	<0.001
3/10/2023	<0.001	<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/1/2023 10:56 AM

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
10/18/2022	<0.001		<0.001			
10/19/2022		<0.001		<0.001	<0.001	<0.001
3/8/2023	<0.001	<0.001	<0.001			
3/9/2023				<0.001	<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/1/2023 10:56 AM

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				
10/18/2022		<0.001	<0.001	<0.001	<0.001
10/19/2022	<0.001				
3/9/2023	<0.001	<0.001	<0.001	<0.001	
3/13/2023					<0.001

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/1/2023 10:56 AM

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
10/17/2022			86	120		
10/18/2022	1900	130				
10/19/2022					3600	5900
3/7/2023			86			
3/10/2023					3600	5600
3/13/2023	1500	150				
3/14/2023				120		

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/1/2023 10:56 AM

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				
10/17/2022			4900	6600		
10/18/2022					150	14000
10/19/2022	5700	5700				
3/8/2023			4400	4000	150	17000
3/10/2023	5000	4700				

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/1/2023 10:56 AM

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
10/18/2022	170		15000			
10/19/2022		5900		13000	240	160
3/8/2023	180	4600	15000			
3/9/2023				15000	150	190

Time Series

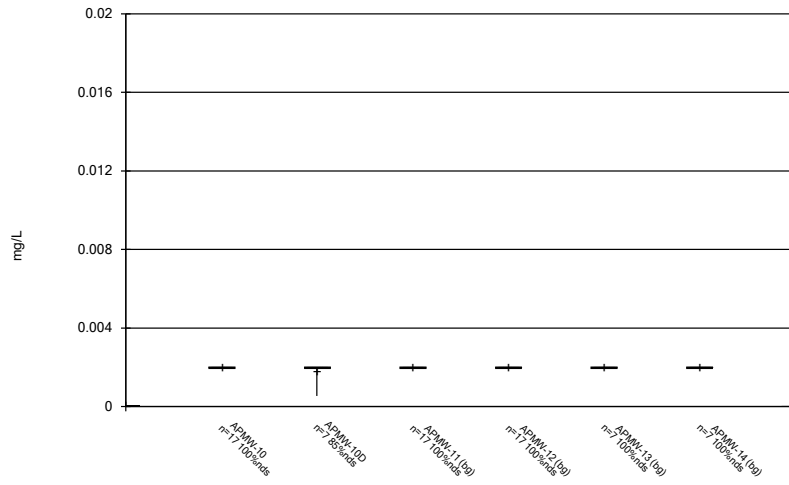
Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/1/2023 10:56 AM

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				
10/18/2022		7900	7000	140	5900
10/19/2022	7000				
3/9/2023	7500	7900	7400	110	
3/13/2023					6000

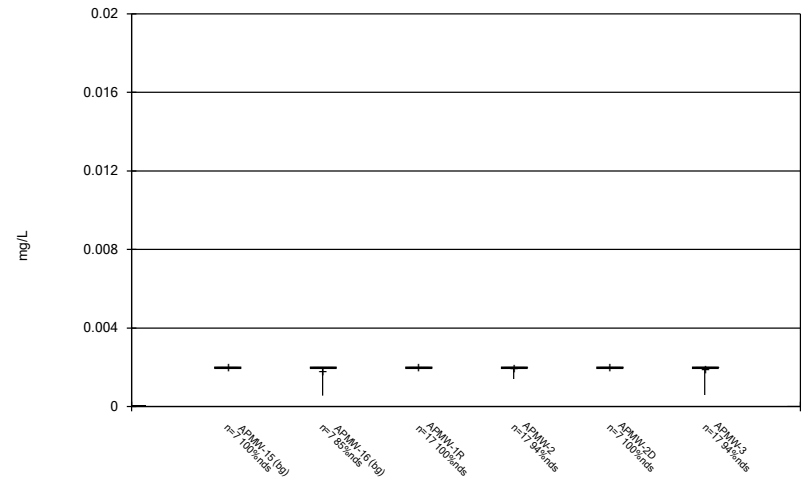
FIGURE B.

Box & Whiskers Plot



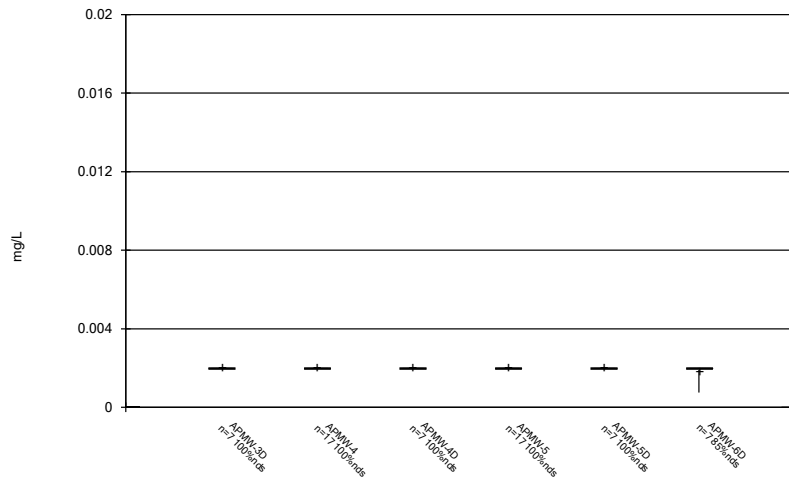
Constituent: Antimony Analysis Run 6/1/2023 10:57 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



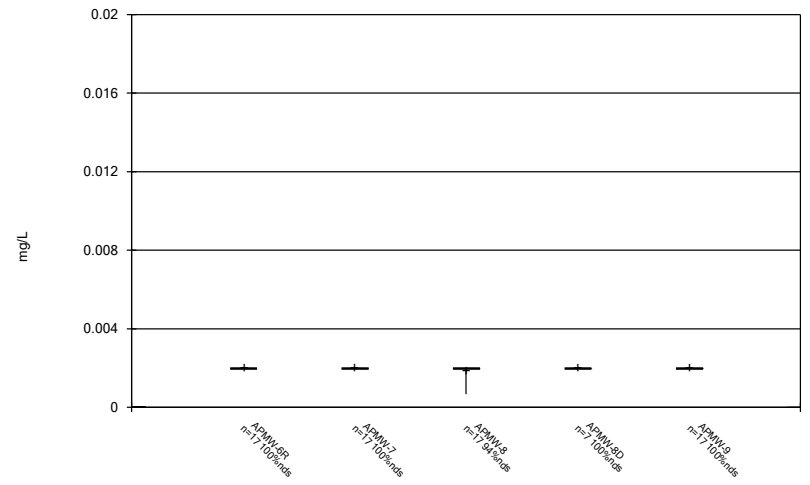
Constituent: Antimony Analysis Run 6/1/2023 10:57 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



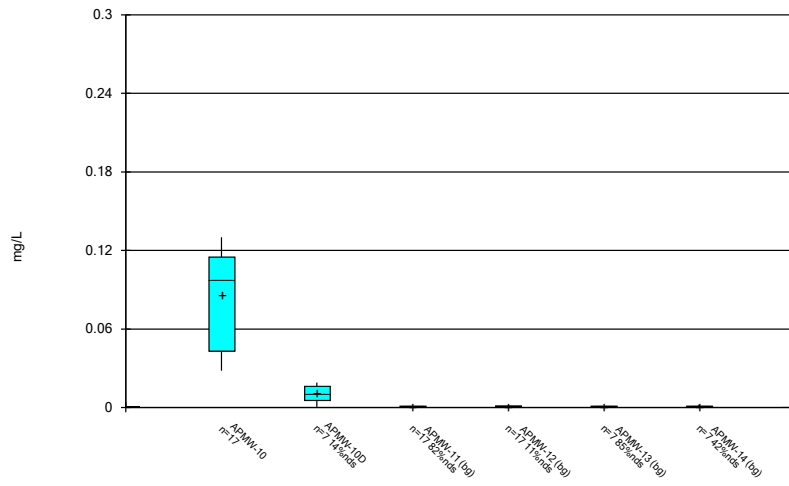
Constituent: Antimony Analysis Run 6/1/2023 10:57 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



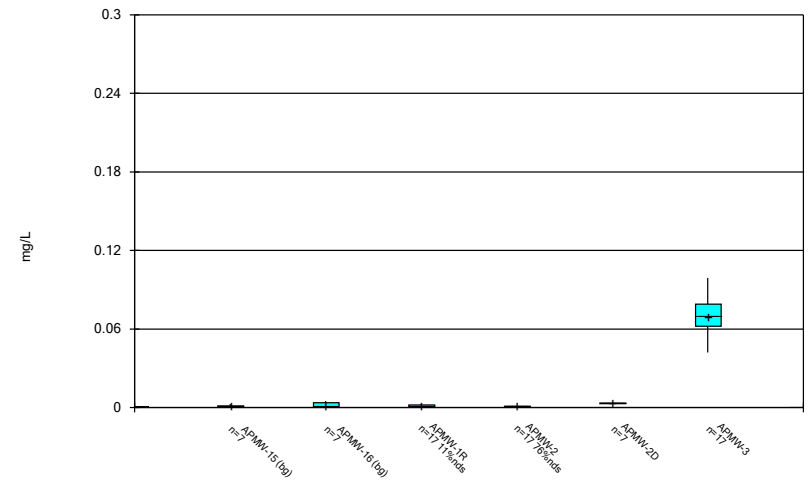
Constituent: Antimony Analysis Run 6/1/2023 10:57 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



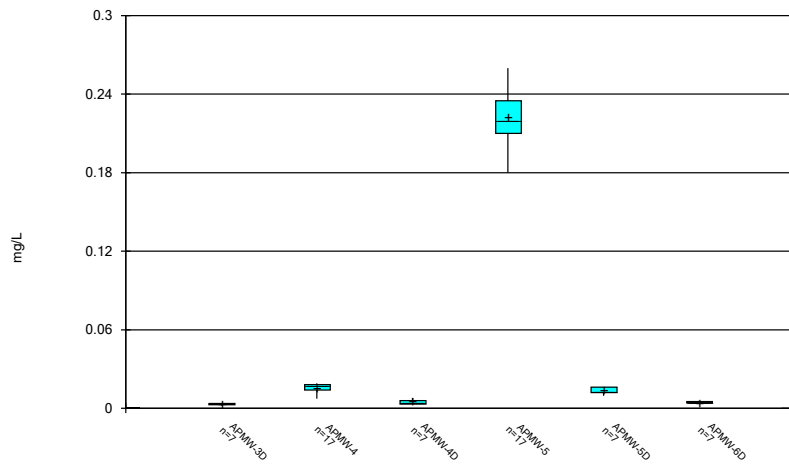
Constituent: Arsenic Analysis Run 6/1/2023 10:57 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



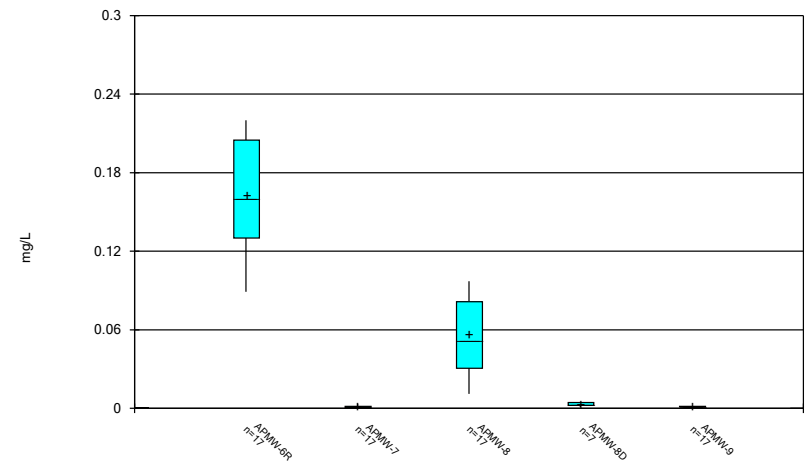
Constituent: Arsenic Analysis Run 6/1/2023 10:57 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



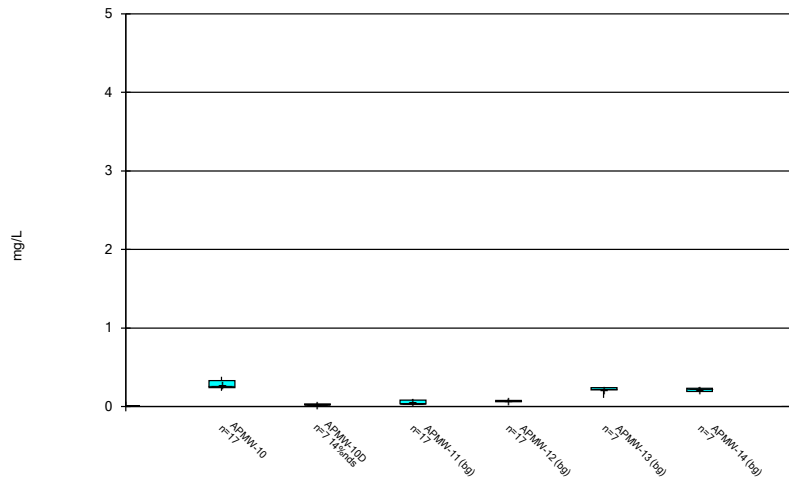
Constituent: Arsenic Analysis Run 6/1/2023 10:57 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



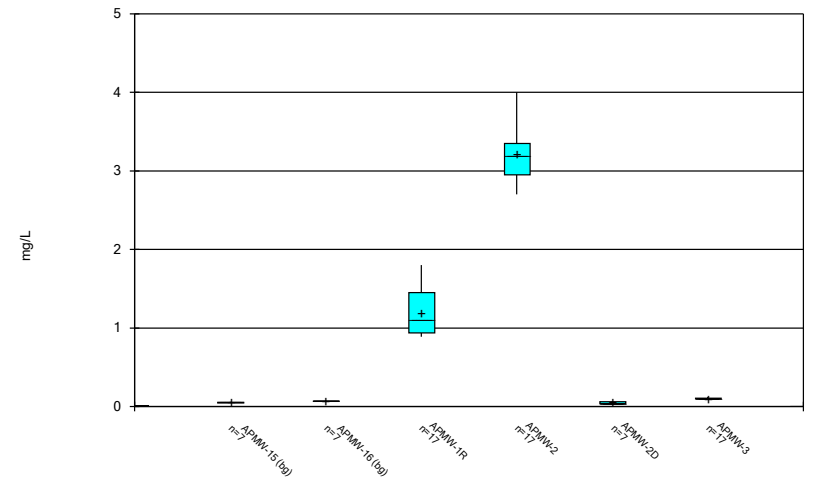
Constituent: Arsenic Analysis Run 6/1/2023 10:57 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



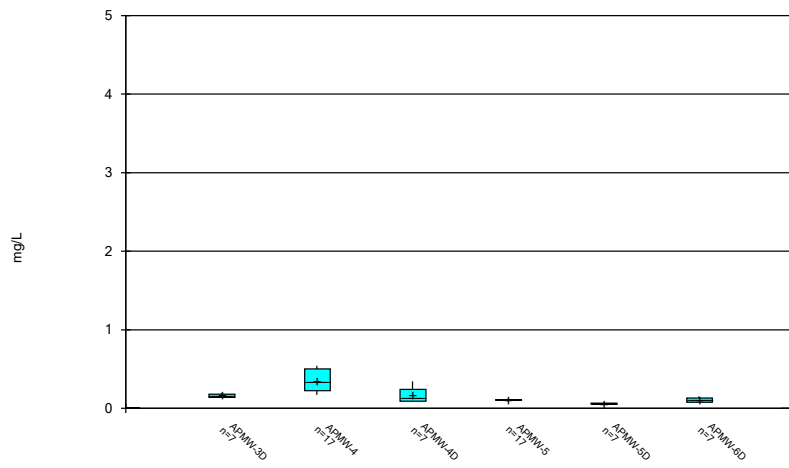
Constituent: Barium Analysis Run 6/1/2023 10:57 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



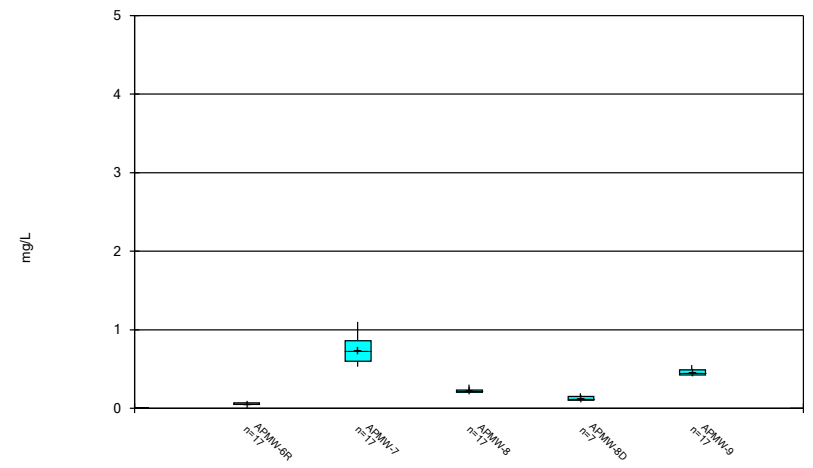
Constituent: Barium Analysis Run 6/1/2023 10:57 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



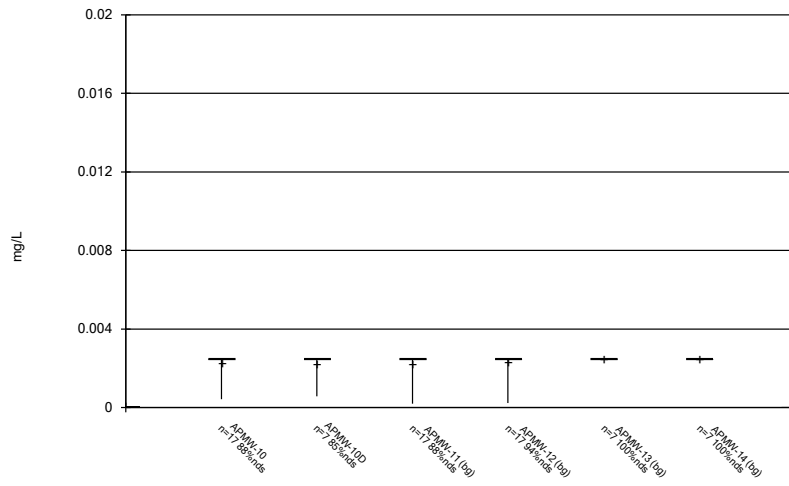
Constituent: Barium Analysis Run 6/1/2023 10:57 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



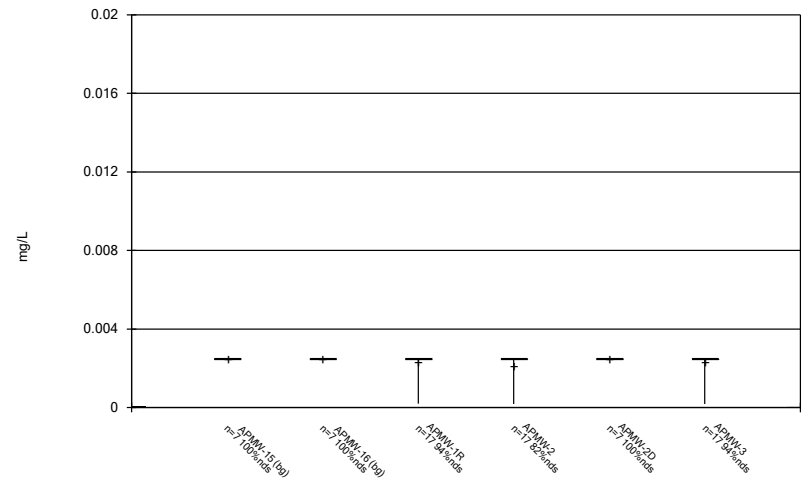
Constituent: Barium Analysis Run 6/1/2023 10:57 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



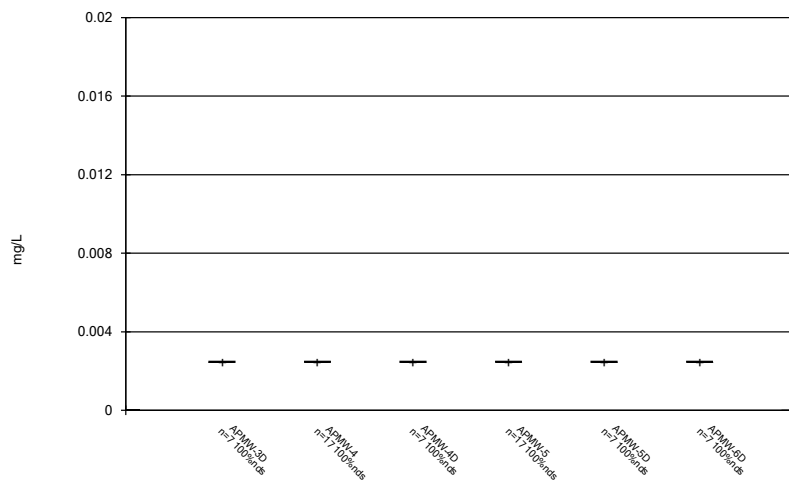
Constituent: Beryllium Analysis Run 6/1/2023 10:57 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



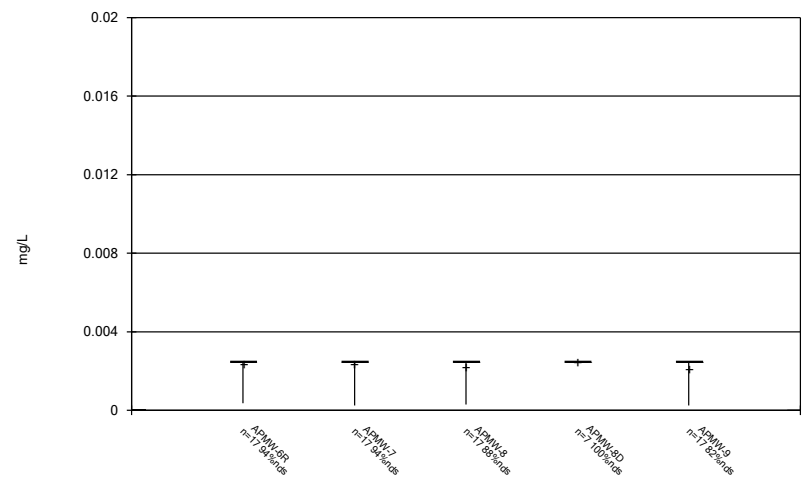
Constituent: Beryllium Analysis Run 6/1/2023 10:57 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



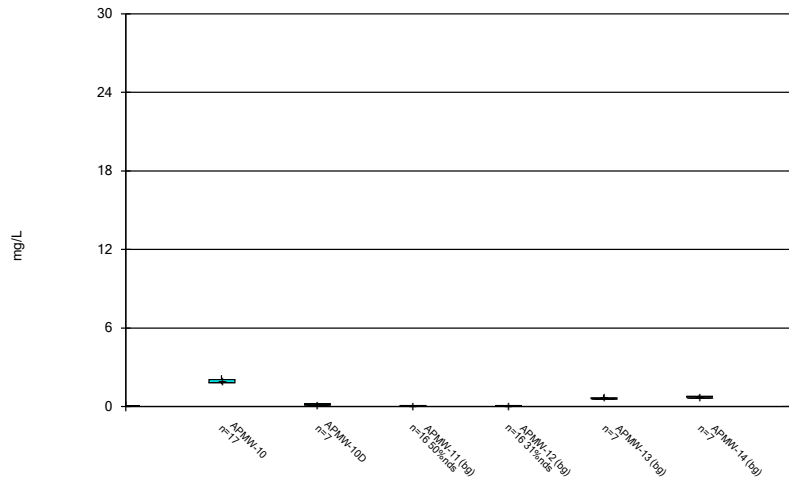
Constituent: Beryllium Analysis Run 6/1/2023 10:57 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



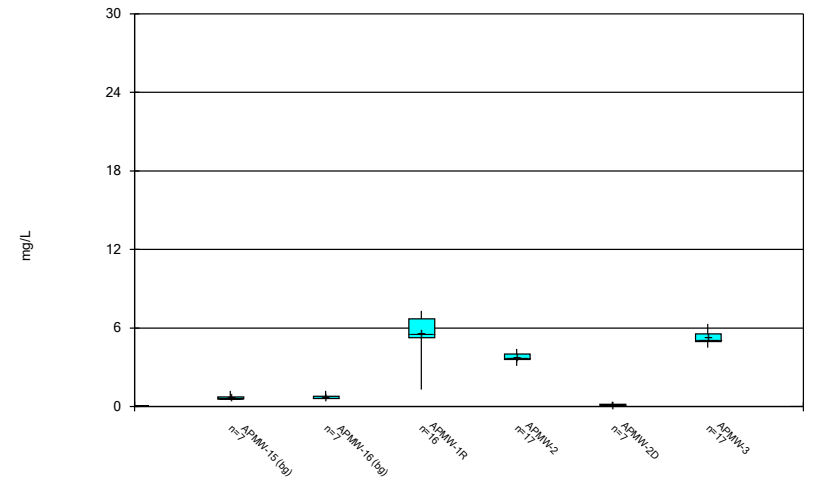
Constituent: Beryllium Analysis Run 6/1/2023 10:57 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



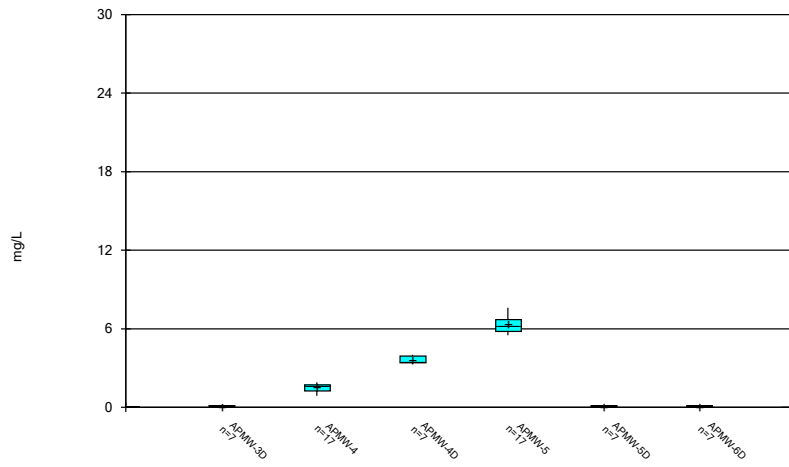
Constituent: Boron Analysis Run 6/1/2023 10:57 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



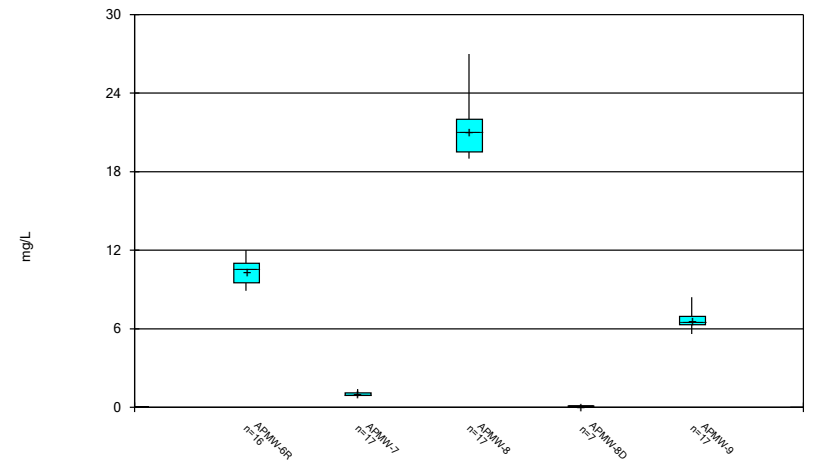
Constituent: Boron Analysis Run 6/1/2023 10:57 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



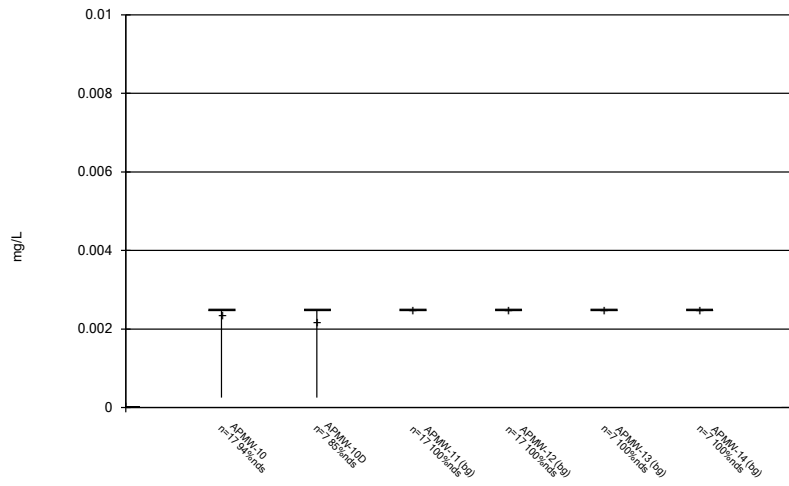
Constituent: Boron Analysis Run 6/1/2023 10:57 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



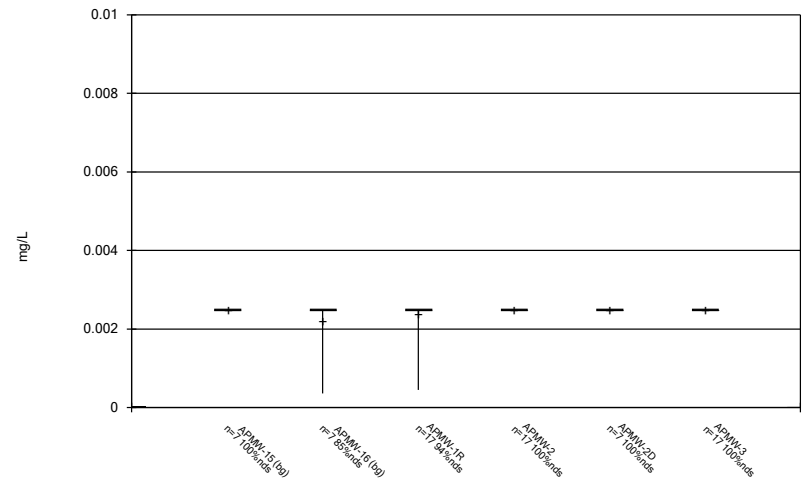
Constituent: Boron Analysis Run 6/1/2023 10:57 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



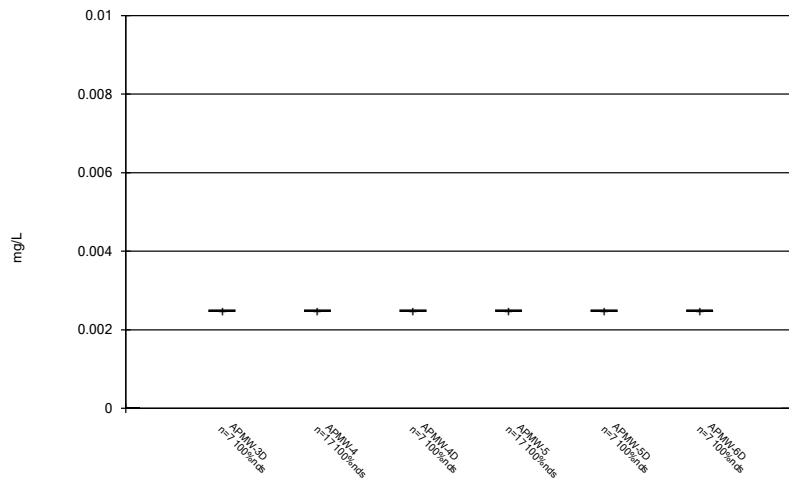
Constituent: Cadmium Analysis Run 6/1/2023 10:57 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



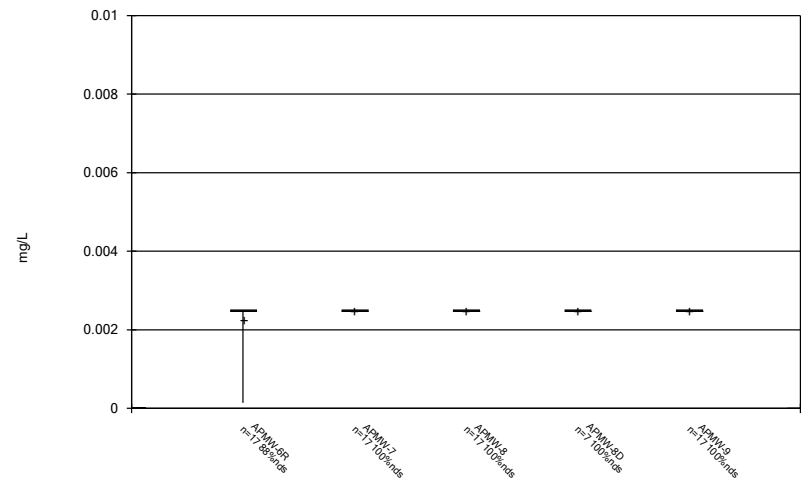
Constituent: Cadmium Analysis Run 6/1/2023 10:57 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



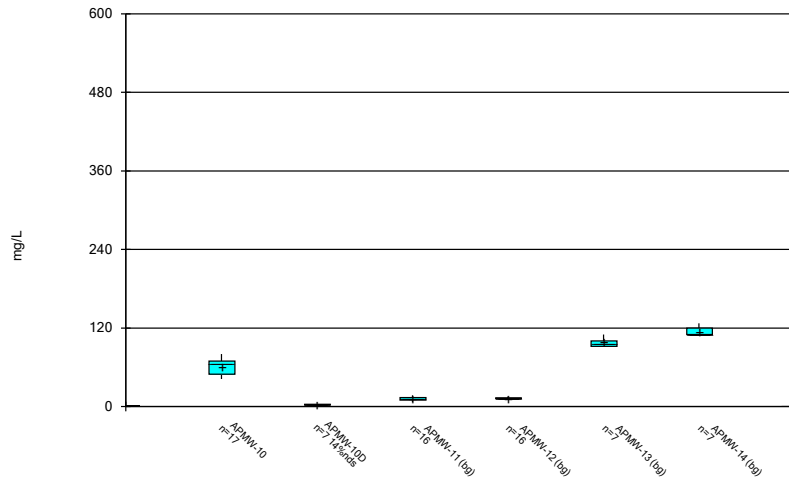
Constituent: Cadmium Analysis Run 6/1/2023 10:57 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



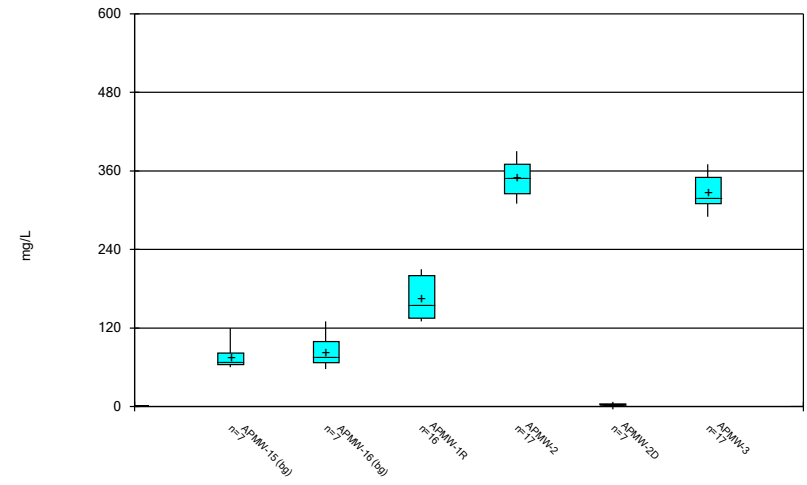
Constituent: Cadmium Analysis Run 6/1/2023 10:57 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



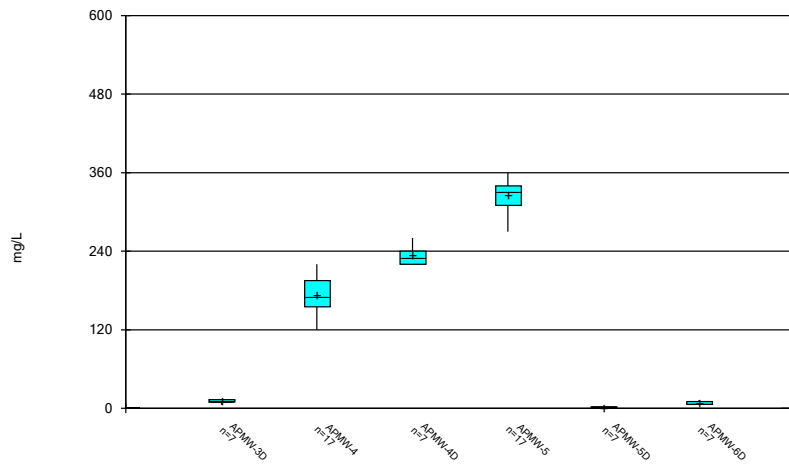
Constituent: Calcium Analysis Run 6/1/2023 10:57 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



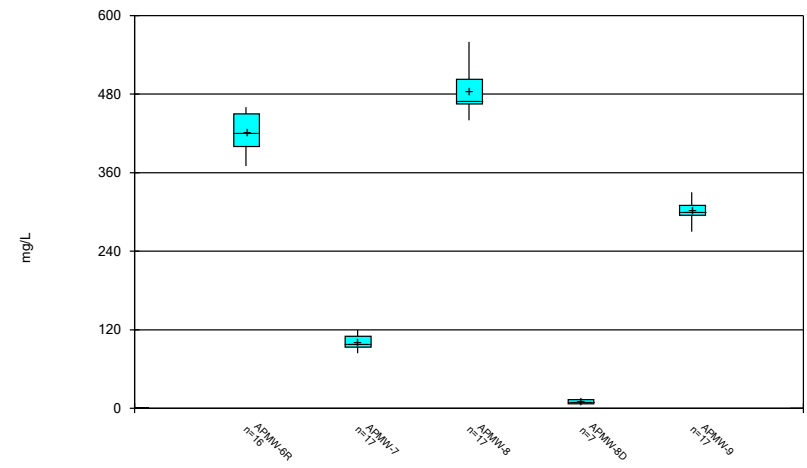
Constituent: Calcium Analysis Run 6/1/2023 10:58 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



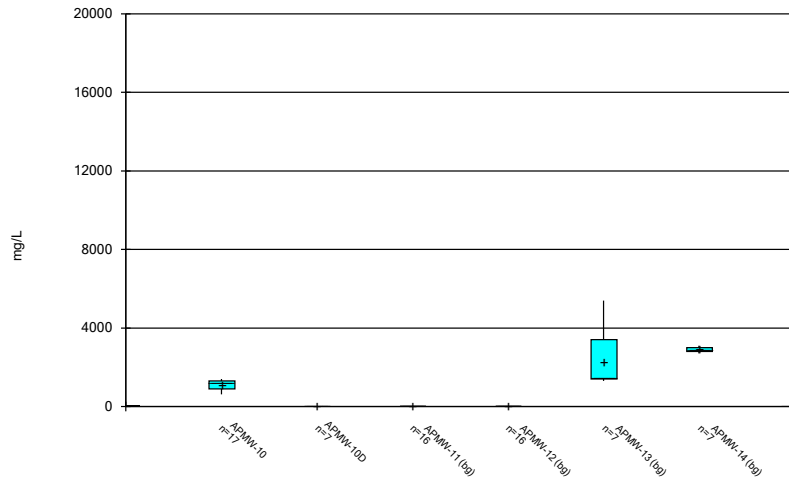
Constituent: Calcium Analysis Run 6/1/2023 10:58 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



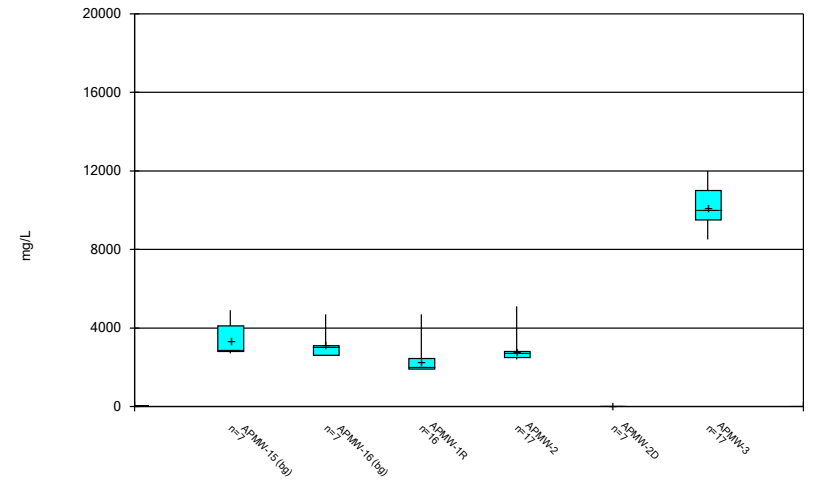
Constituent: Calcium Analysis Run 6/1/2023 10:58 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



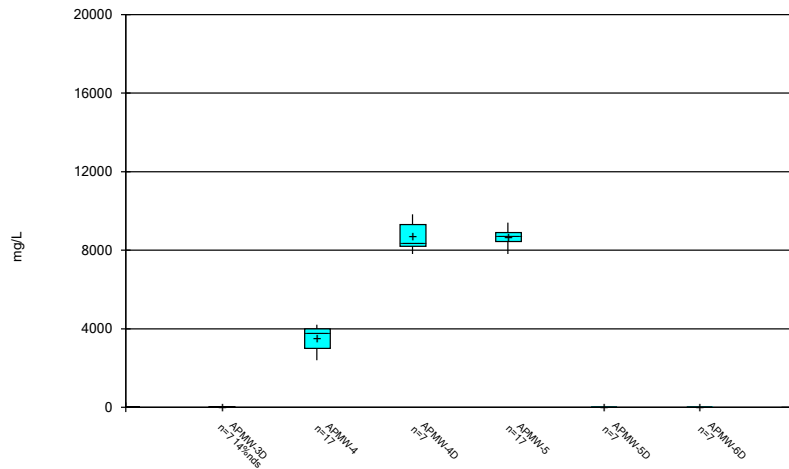
Constituent: Chloride Analysis Run 6/1/2023 10:58 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



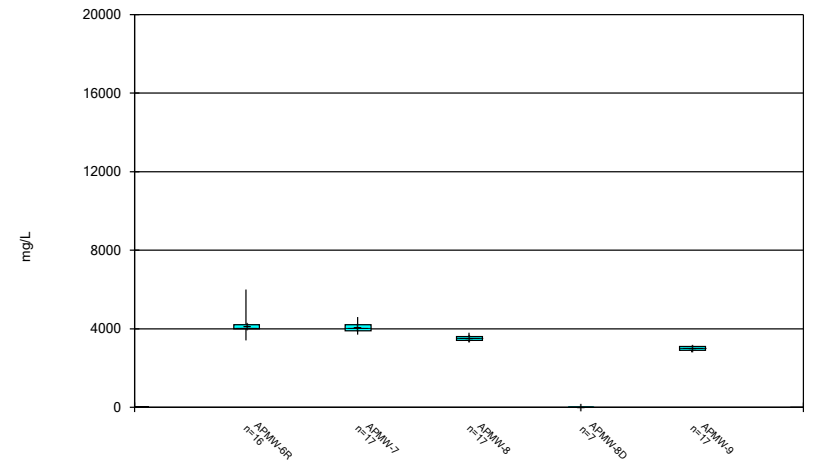
Constituent: Chloride Analysis Run 6/1/2023 10:58 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



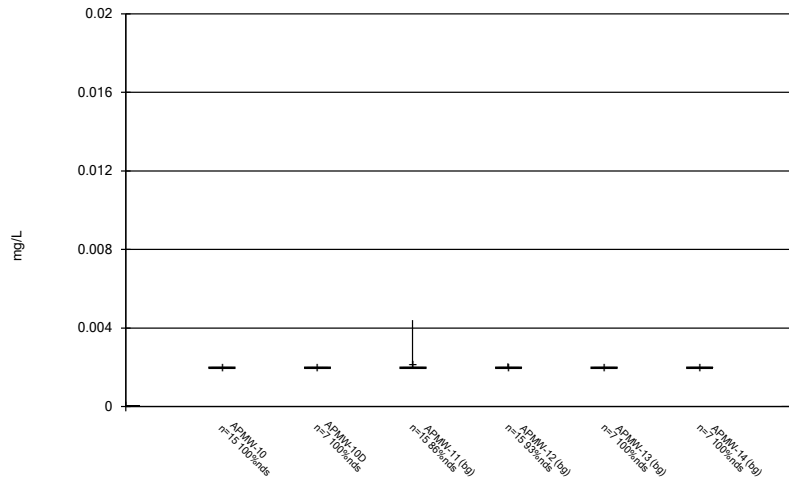
Constituent: Chloride Analysis Run 6/1/2023 10:58 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



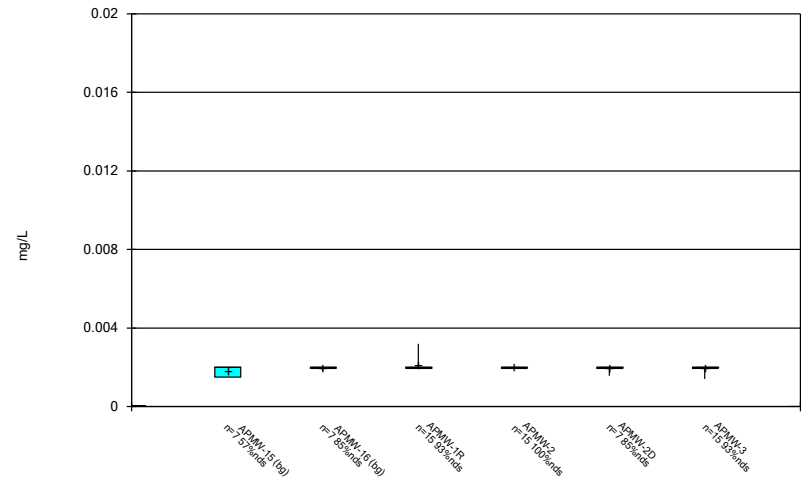
Constituent: Chloride Analysis Run 6/1/2023 10:58 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



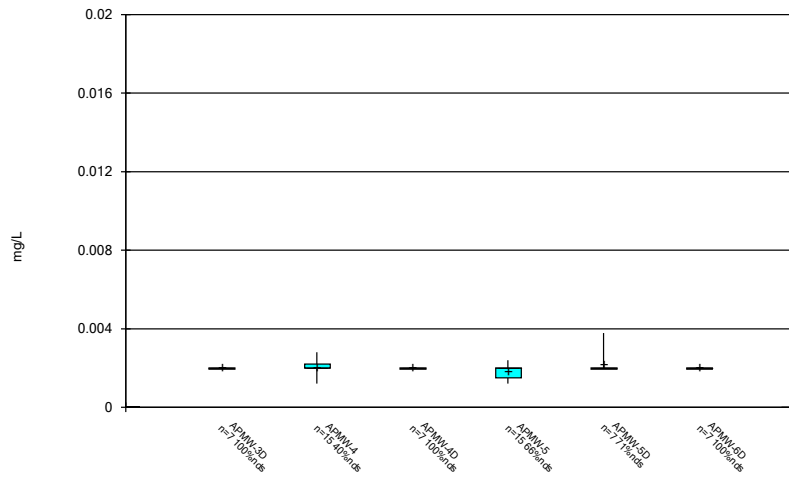
Constituent: Chromium Analysis Run 6/1/2023 10:58 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



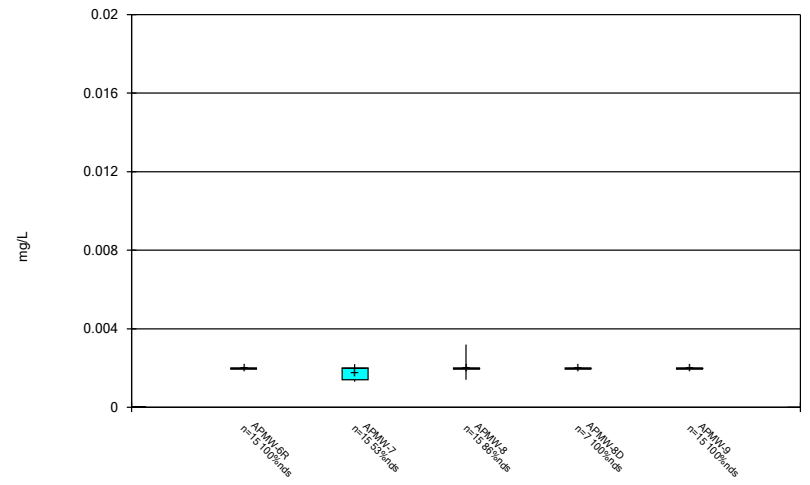
Constituent: Chromium Analysis Run 6/1/2023 10:58 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



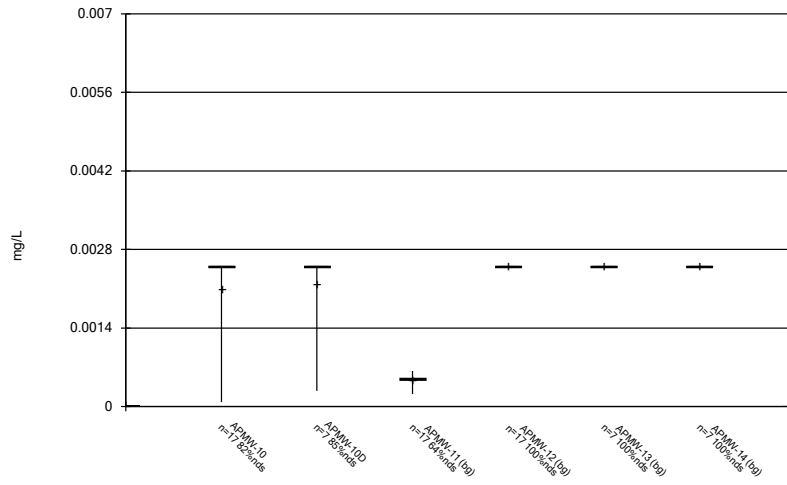
Constituent: Chromium Analysis Run 6/1/2023 10:58 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



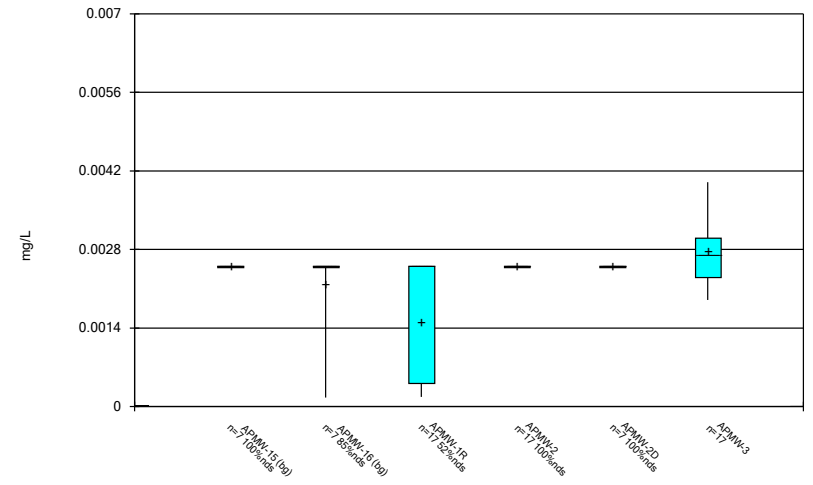
Constituent: Chromium Analysis Run 6/1/2023 10:58 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



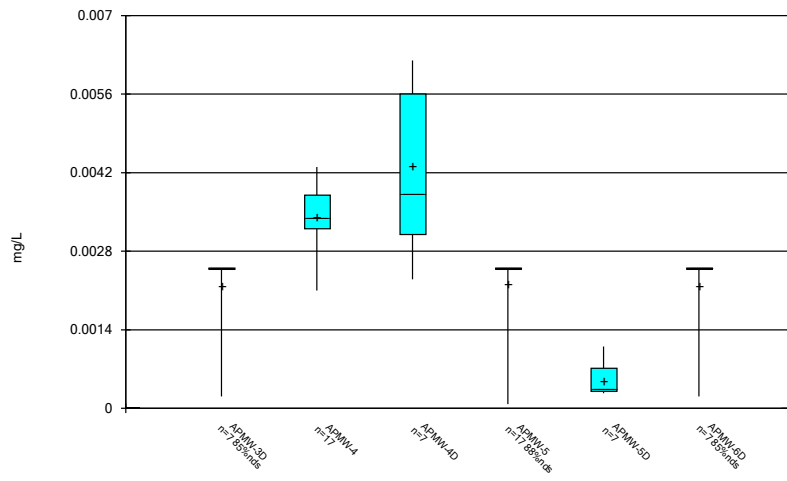
Constituent: Cobalt Analysis Run 6/1/2023 10:58 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



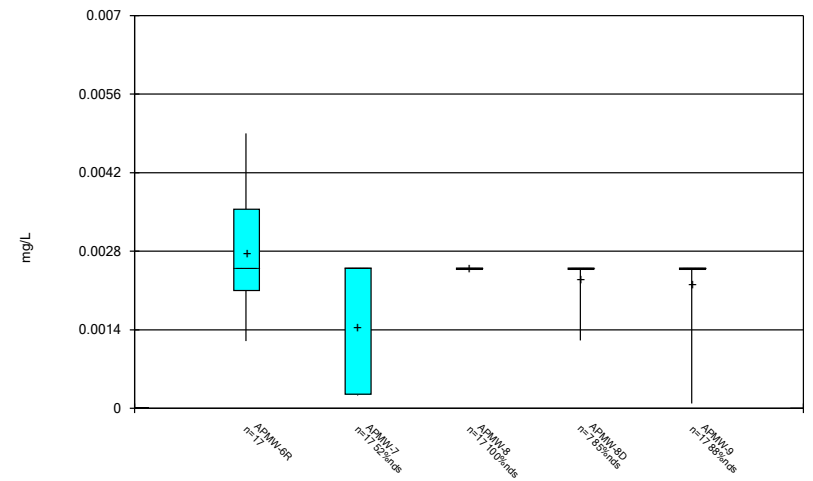
Constituent: Cobalt Analysis Run 6/1/2023 10:58 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



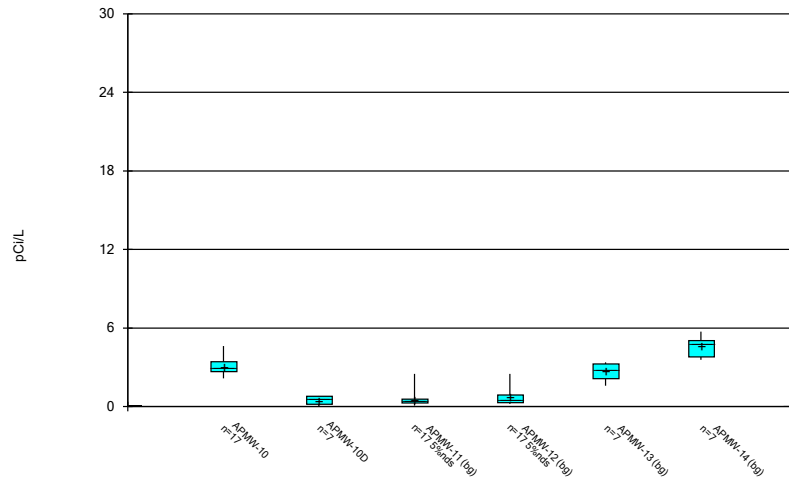
Constituent: Cobalt Analysis Run 6/1/2023 10:58 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



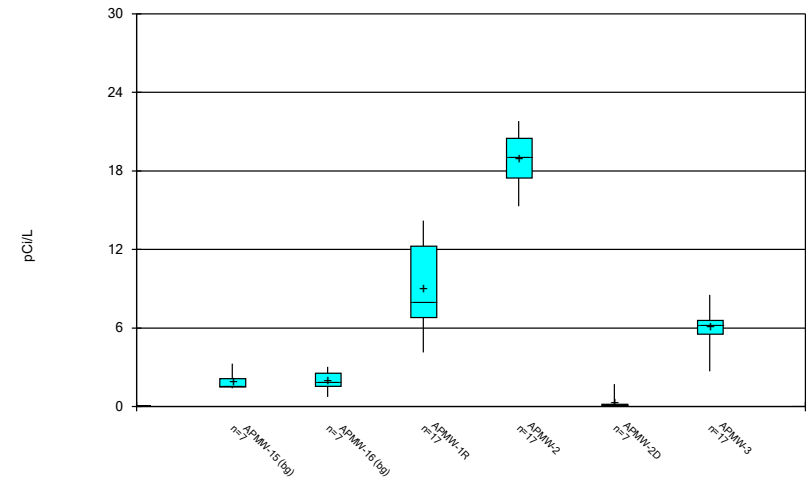
Constituent: Cobalt Analysis Run 6/1/2023 10:58 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



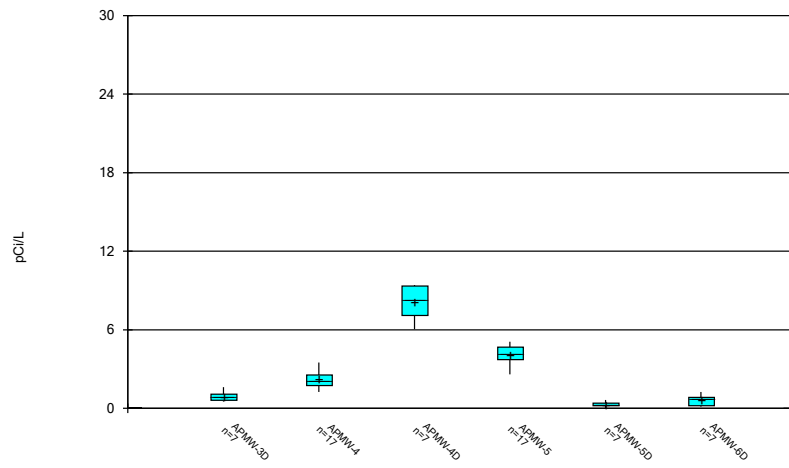
Constituent: Combined Radium 226 + 228 Analysis Run 6/1/2023 10:58 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



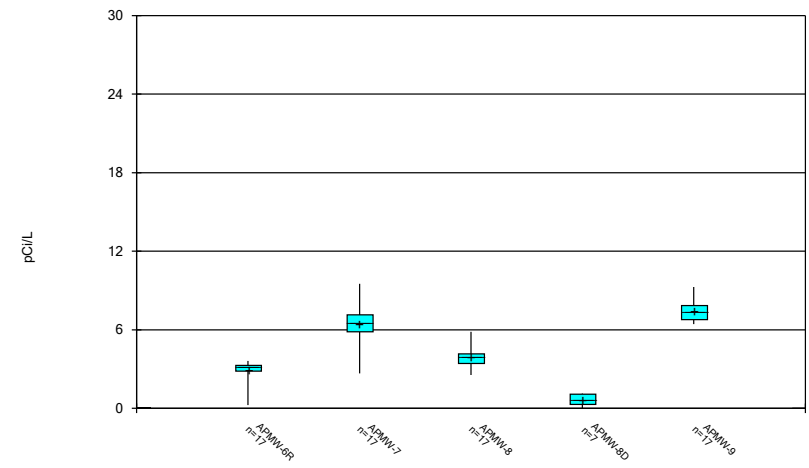
Constituent: Combined Radium 226 + 228 Analysis Run 6/1/2023 10:58 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



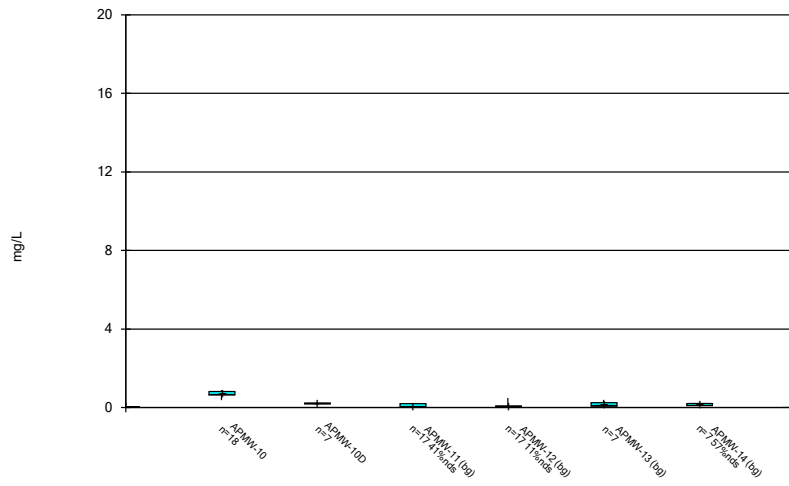
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



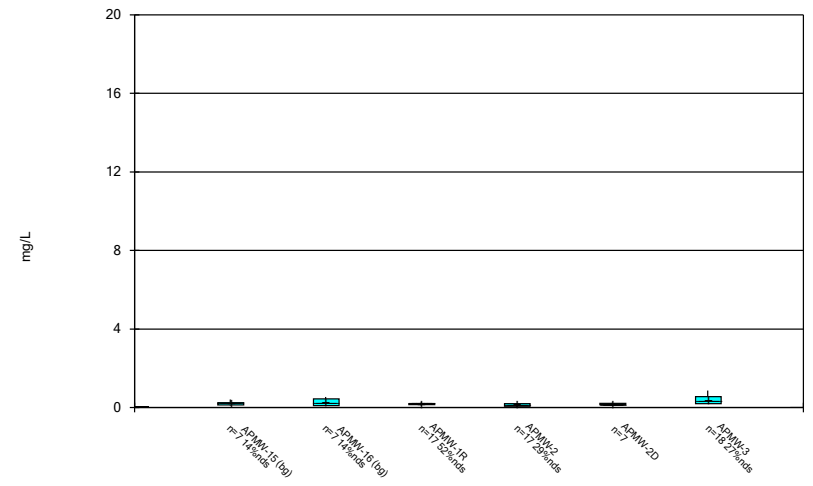
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



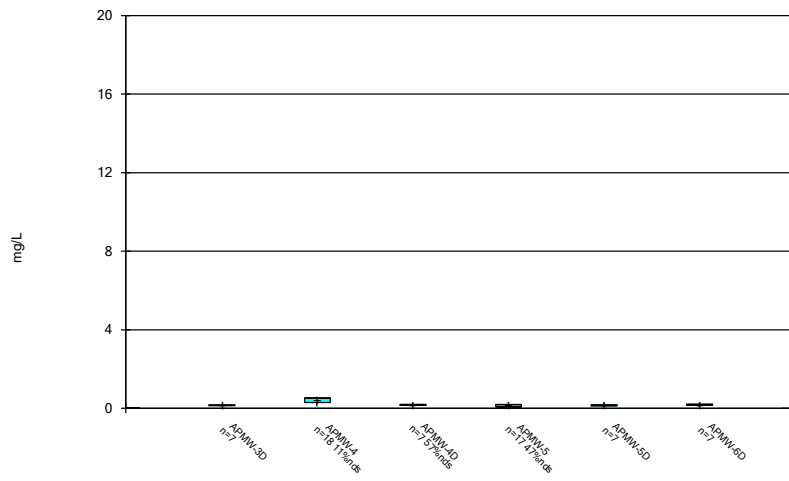
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



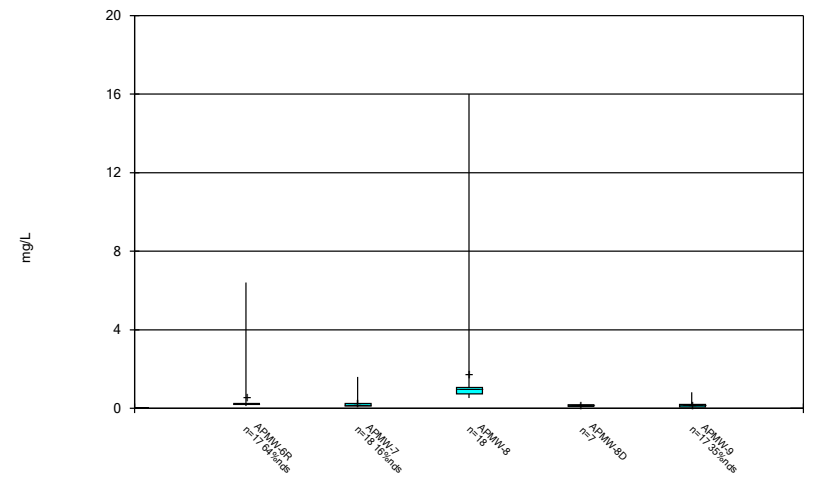
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



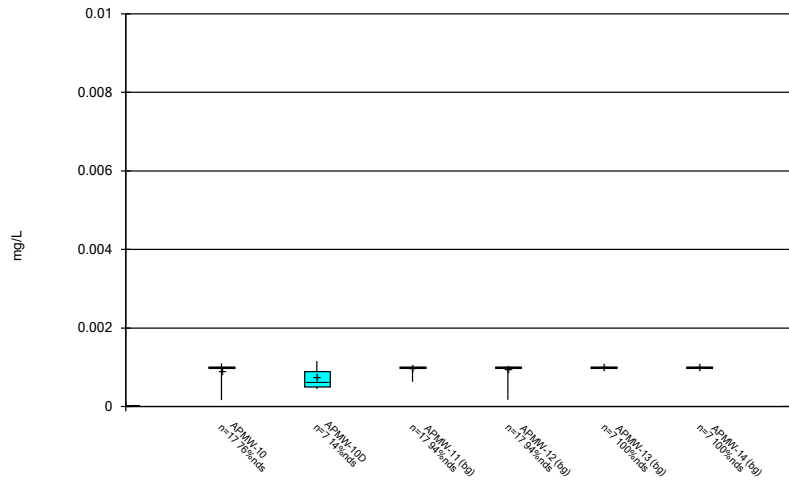
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



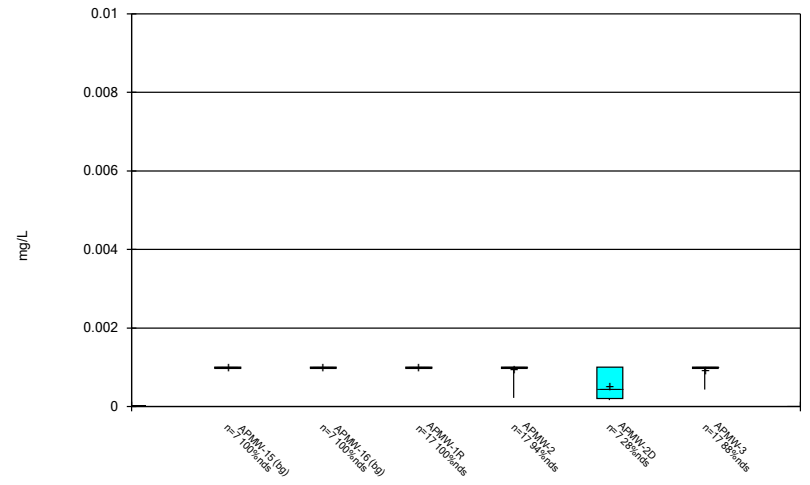
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



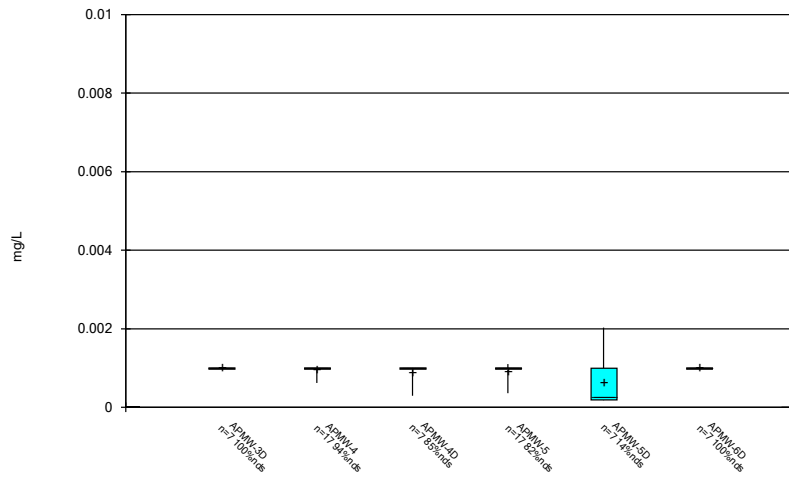
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



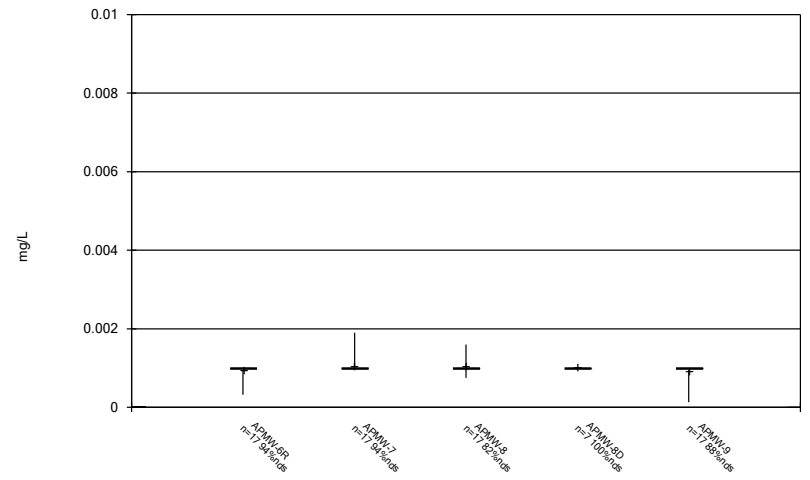
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



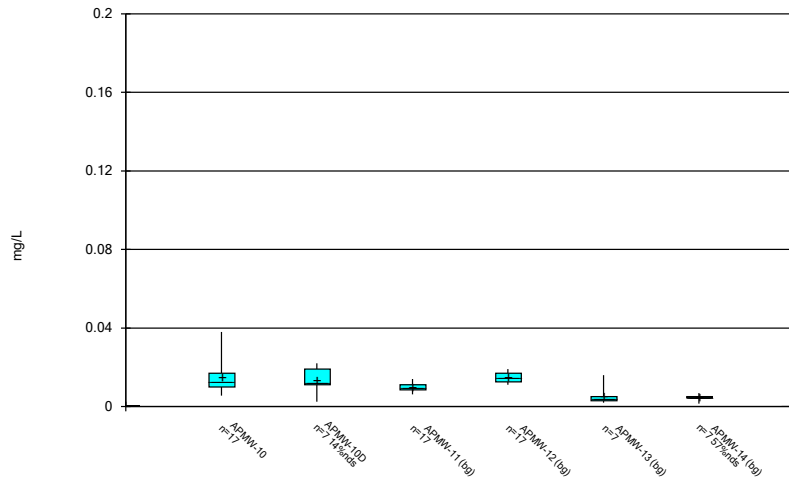
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



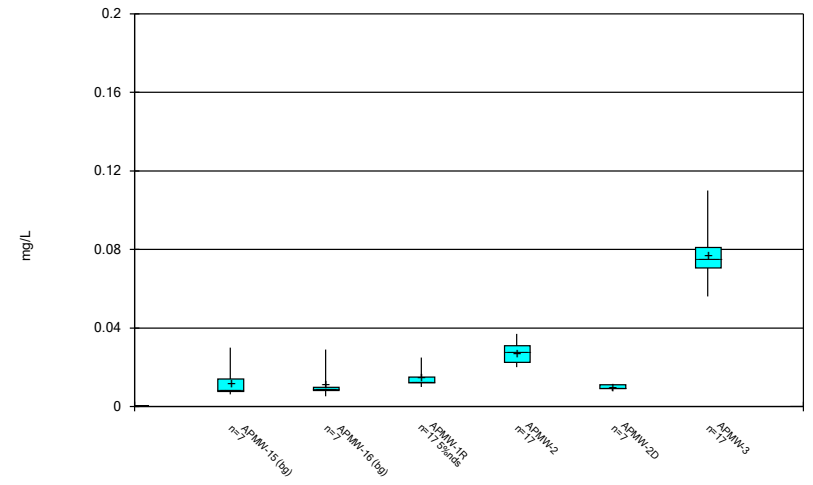
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



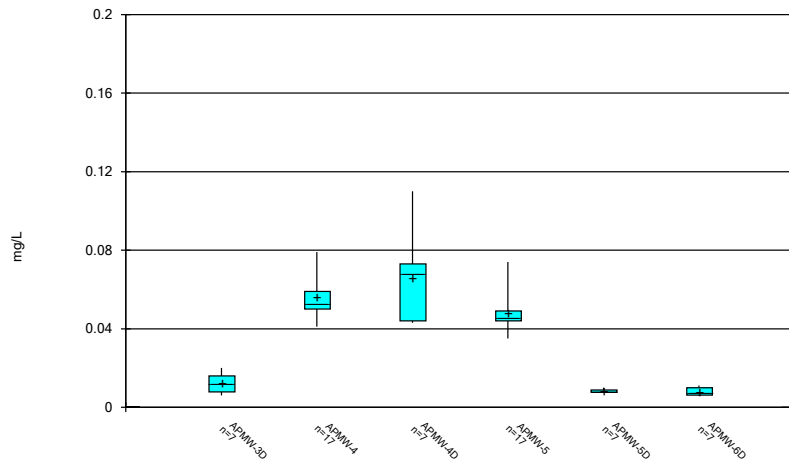
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



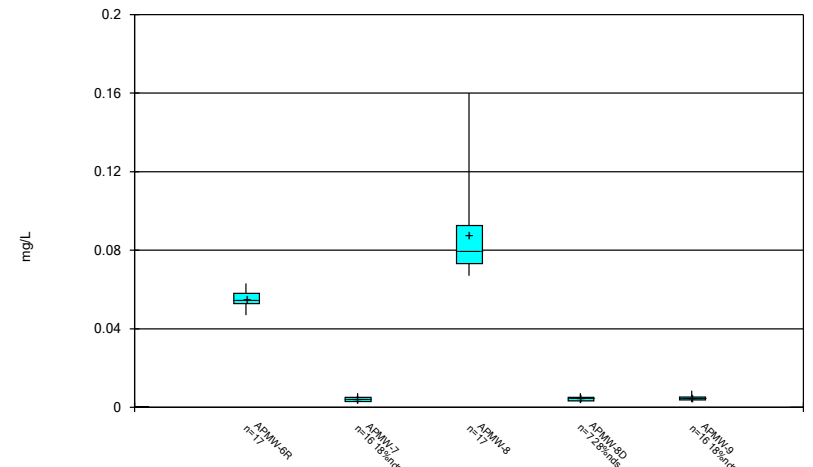
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



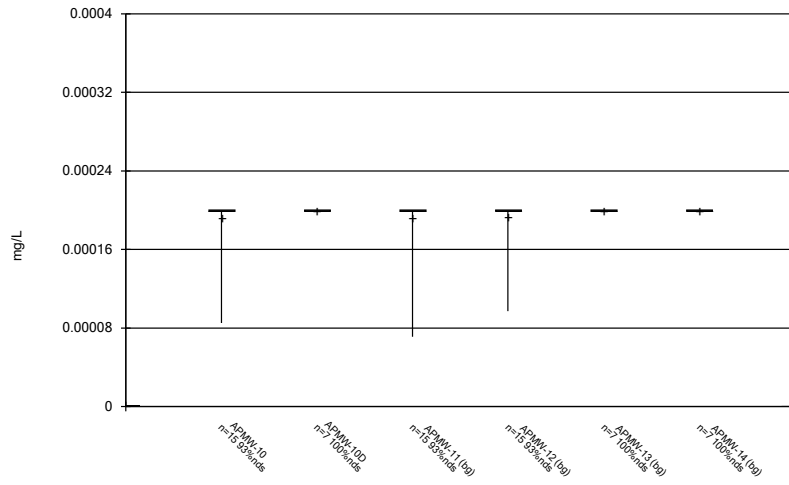
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Box & Whiskers Plot



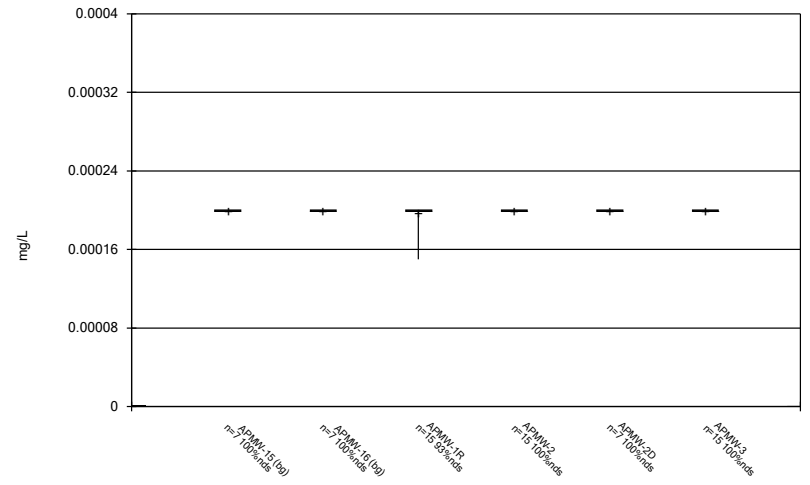
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



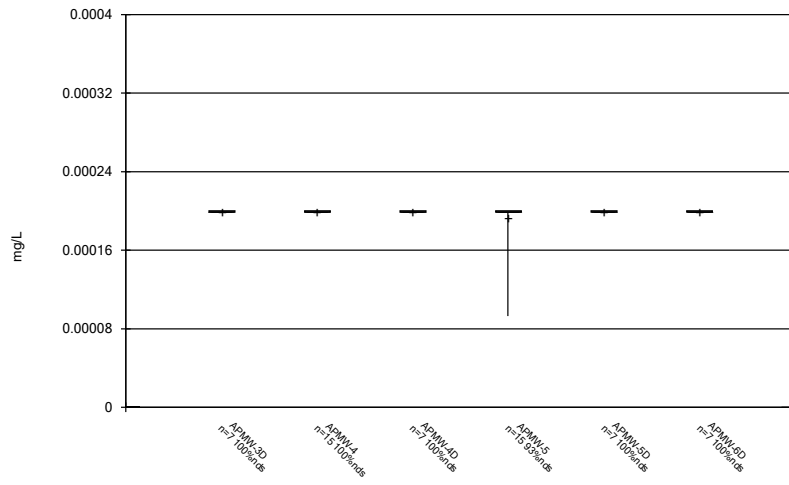
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



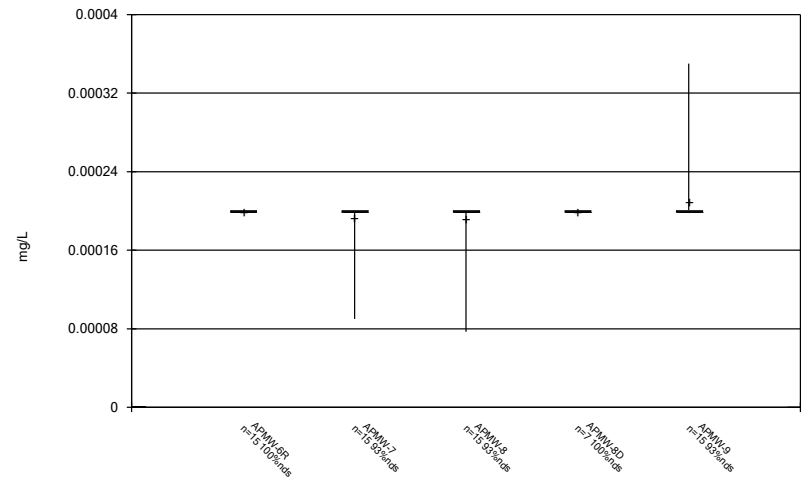
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



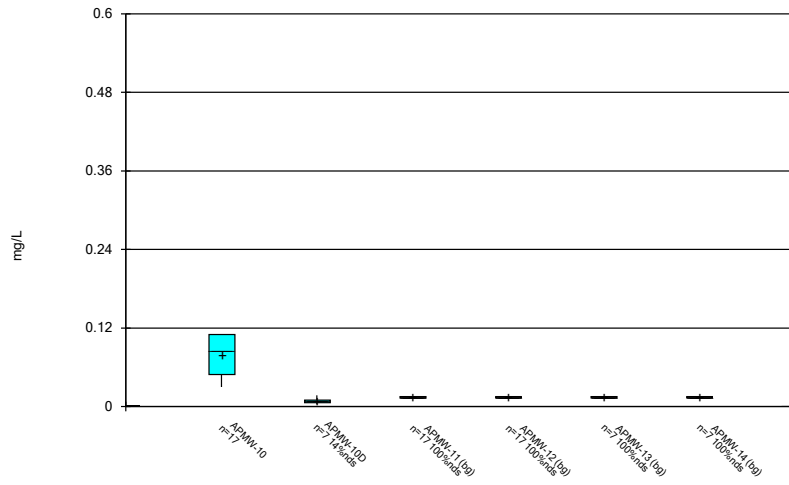
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



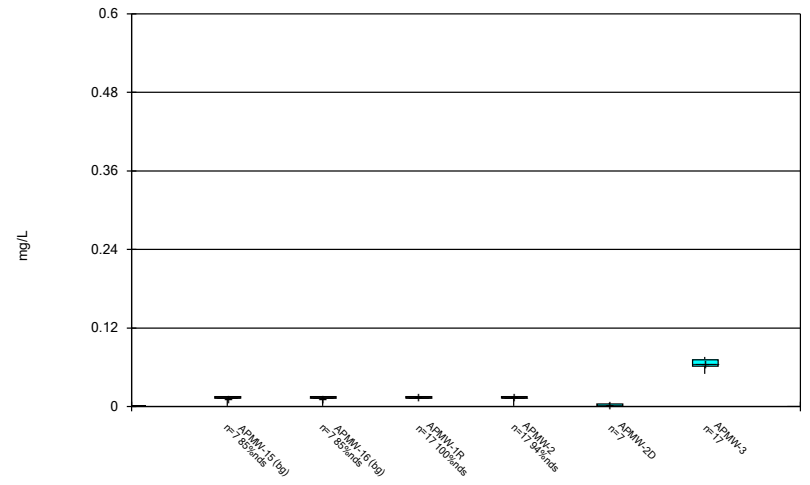
Constituent: Mercury Analysis Run 6/1/2023 10:58 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



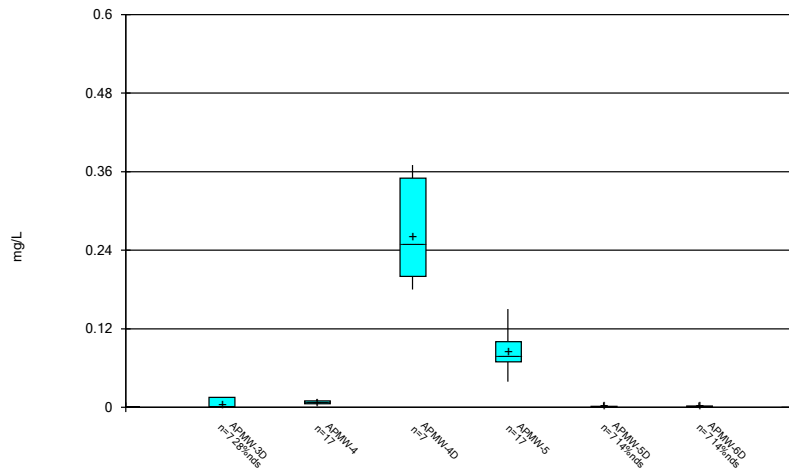
Constituent: Molybdenum Analysis Run 6/1/2023 10:58 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



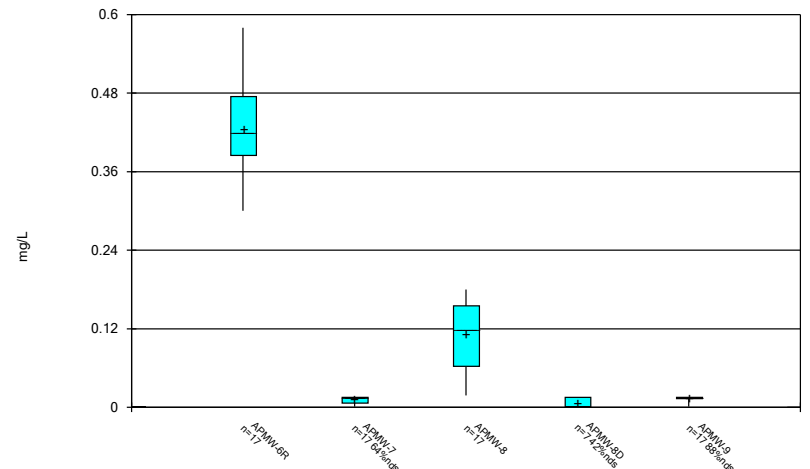
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



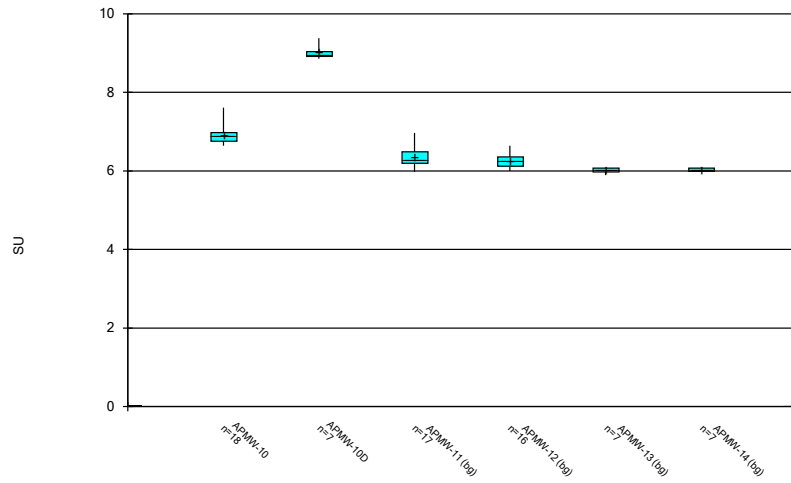
Constituent: Molybdenum Analysis Run 6/1/2023 10:58 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



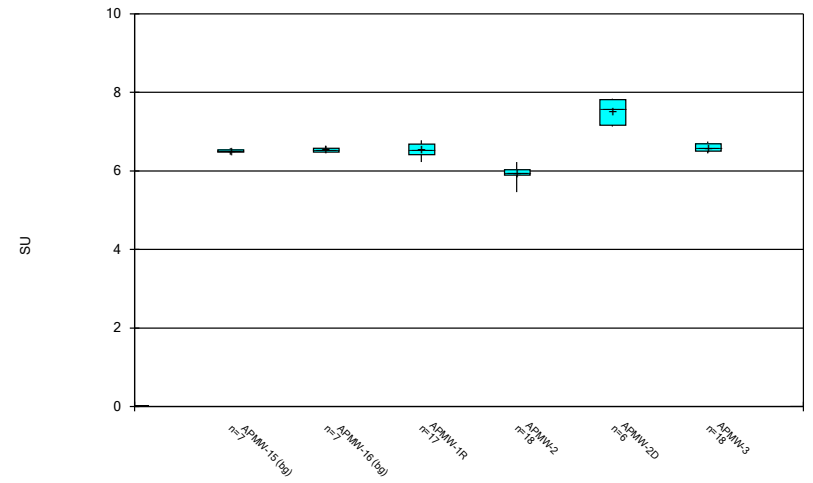
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



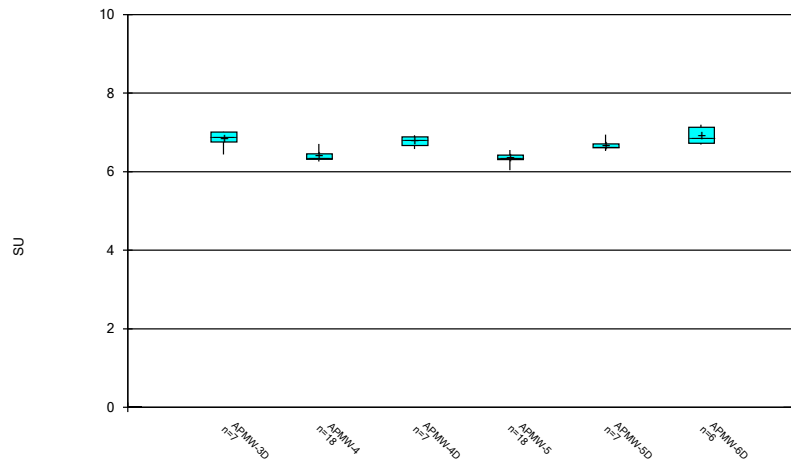
Constituent: pH Analysis Run 6/1/2023 10:58 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



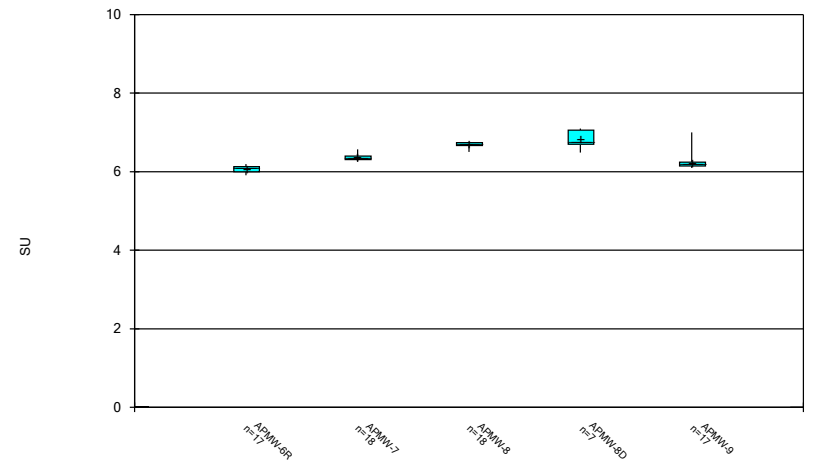
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



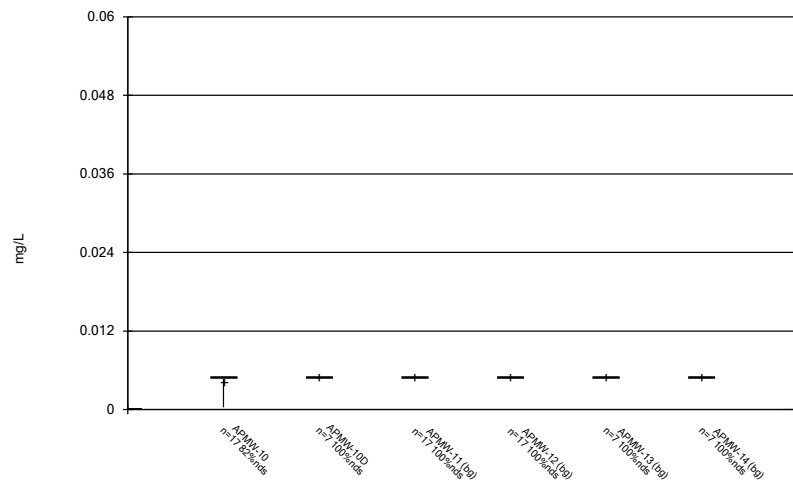
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



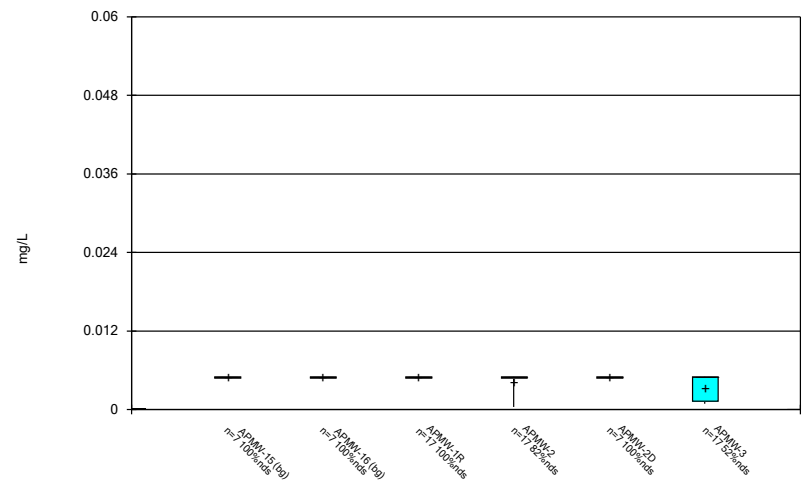
Constituent: pH Analysis Run 6/1/2023 10:58 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



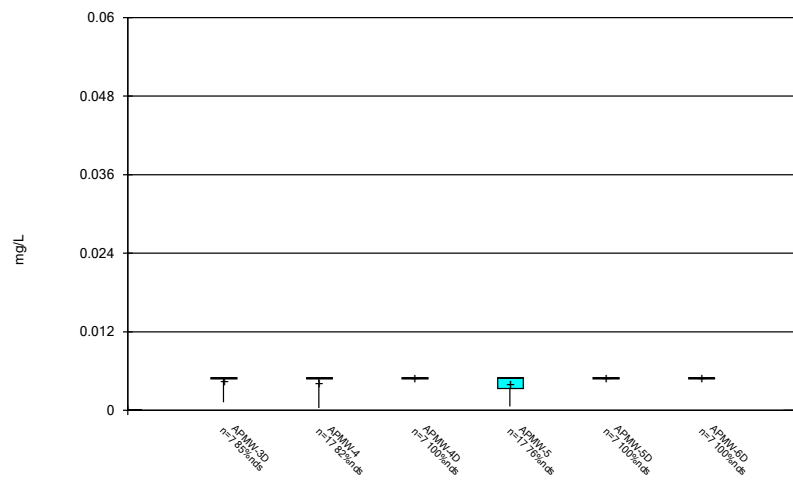
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



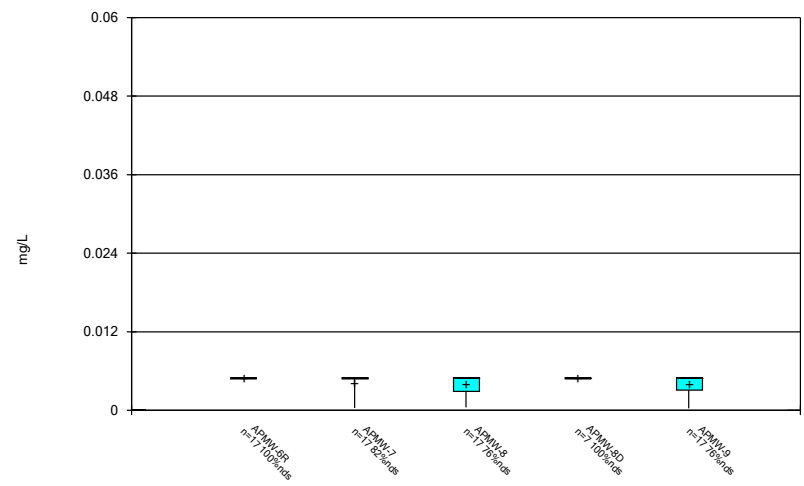
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



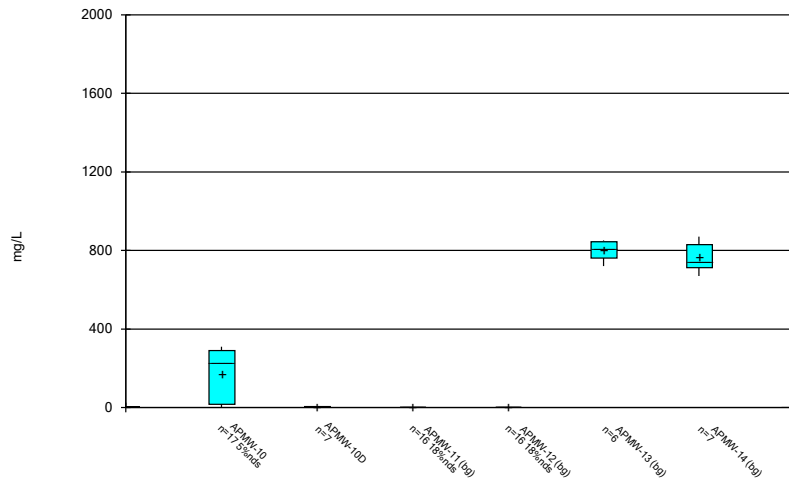
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



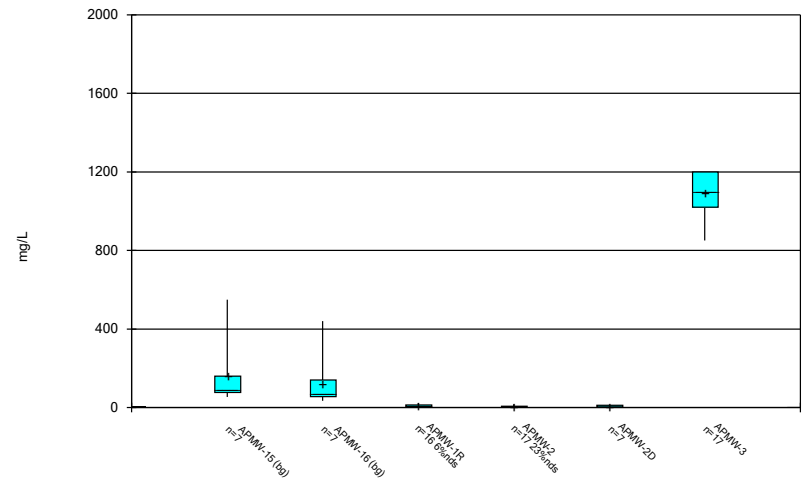
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



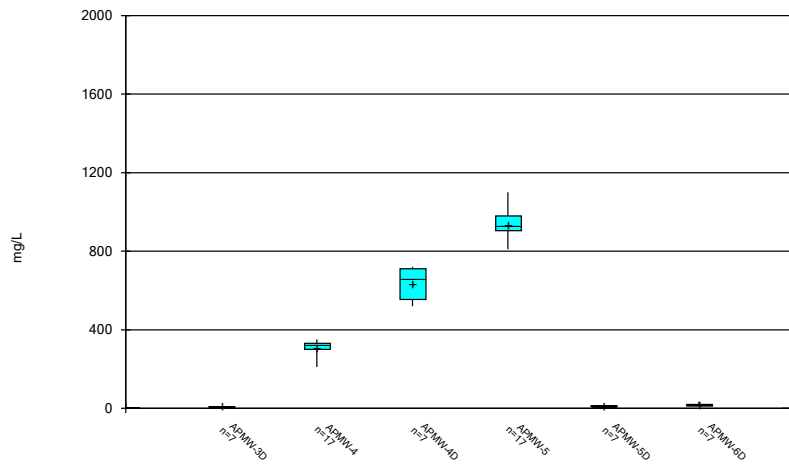
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Box & Whiskers Plot



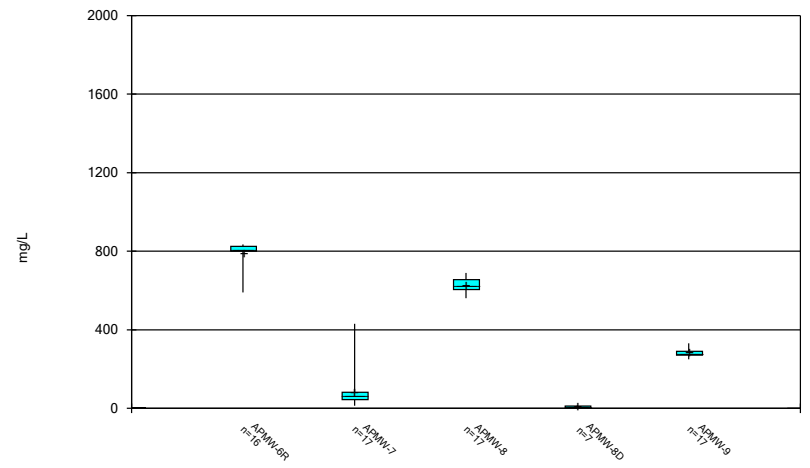
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



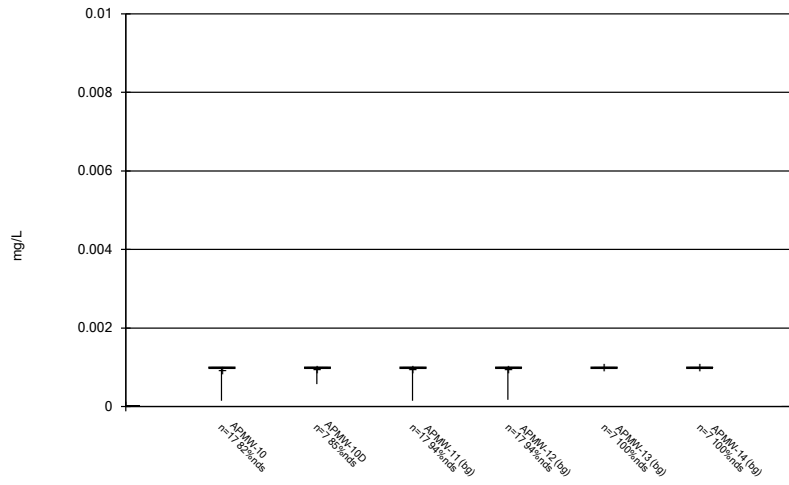
Constituent: Sulfate Analysis Run 6/1/2023 10:58 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



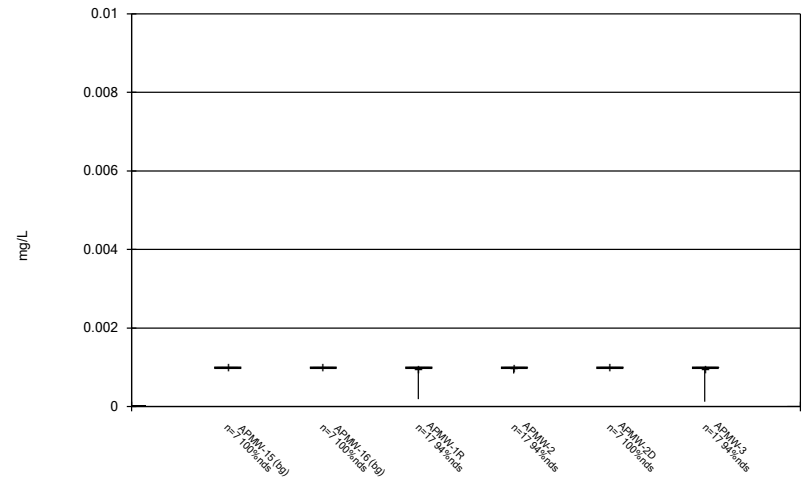
Constituent: Sulfate Analysis Run 6/1/2023 10:58 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



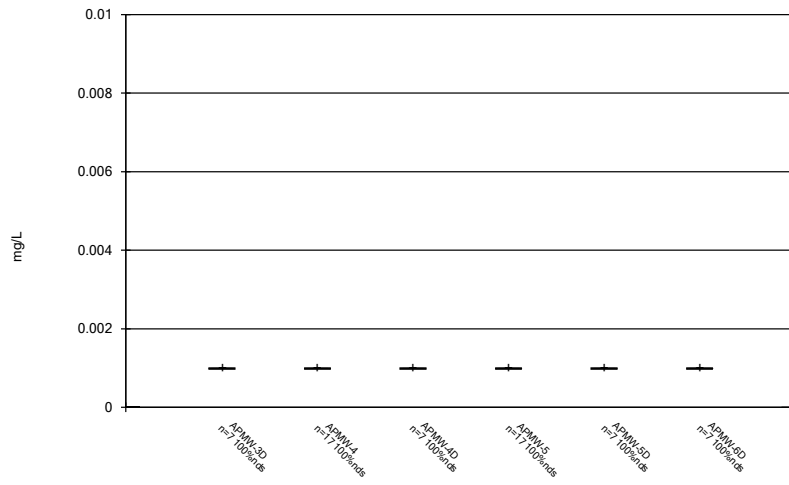
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Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



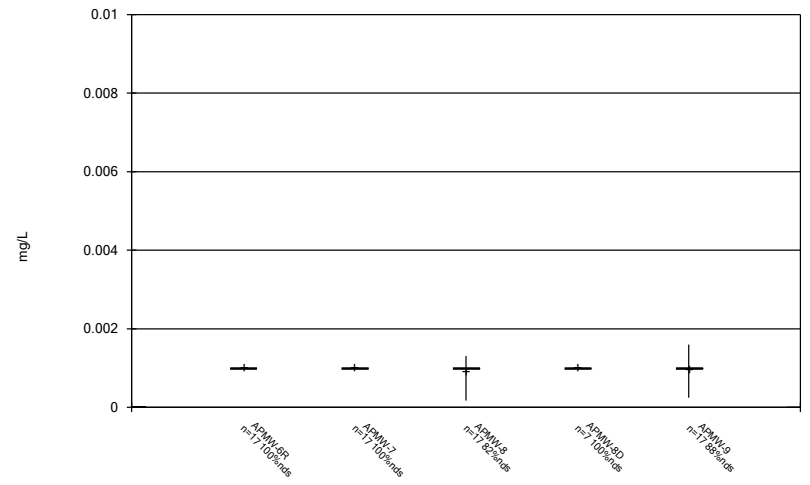
Constituent: Thallium Analysis Run 6/1/2023 10:58 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



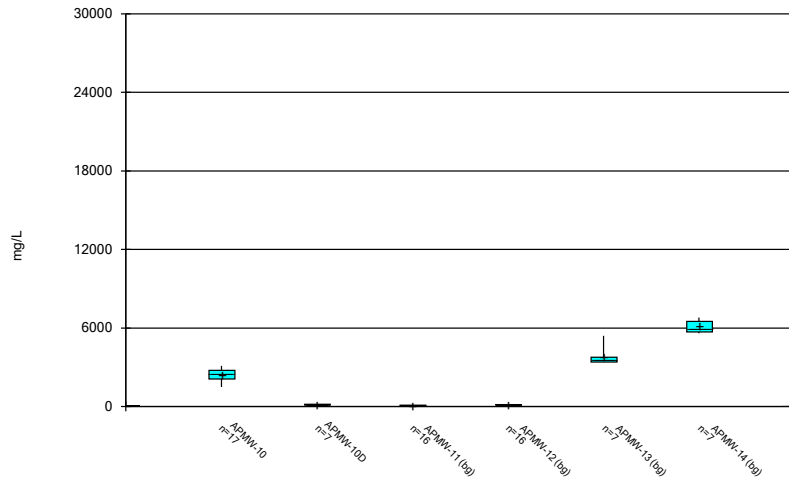
Constituent: Thallium Analysis Run 6/1/2023 10:58 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



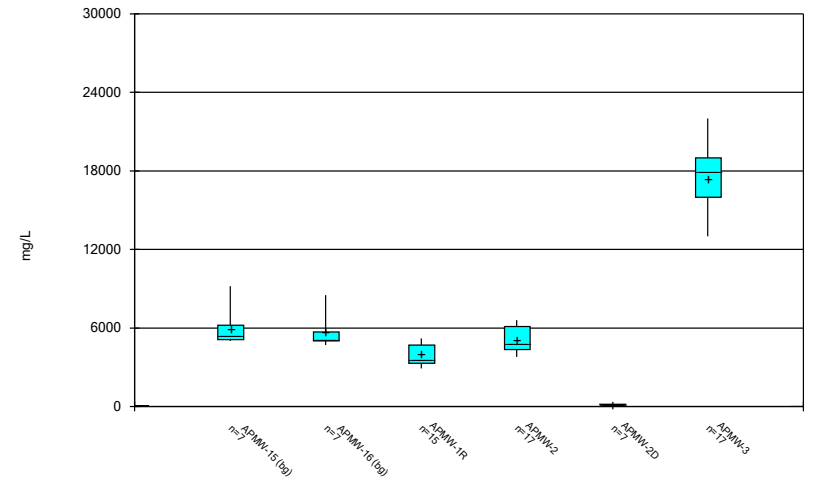
Constituent: Thallium Analysis Run 6/1/2023 10:58 AM
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



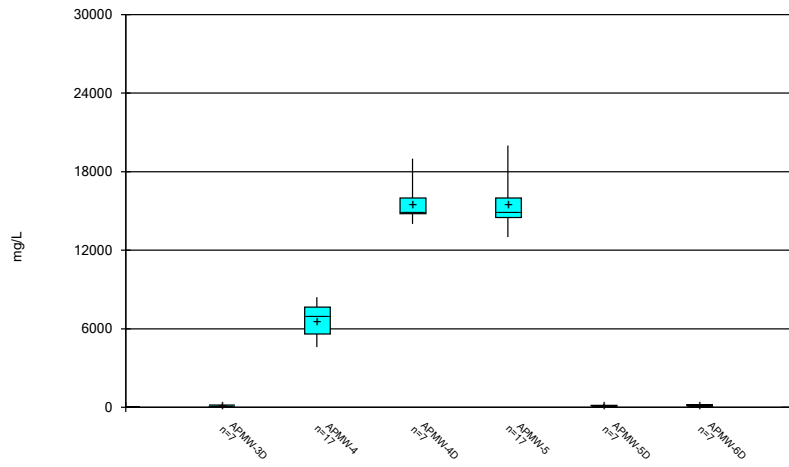
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



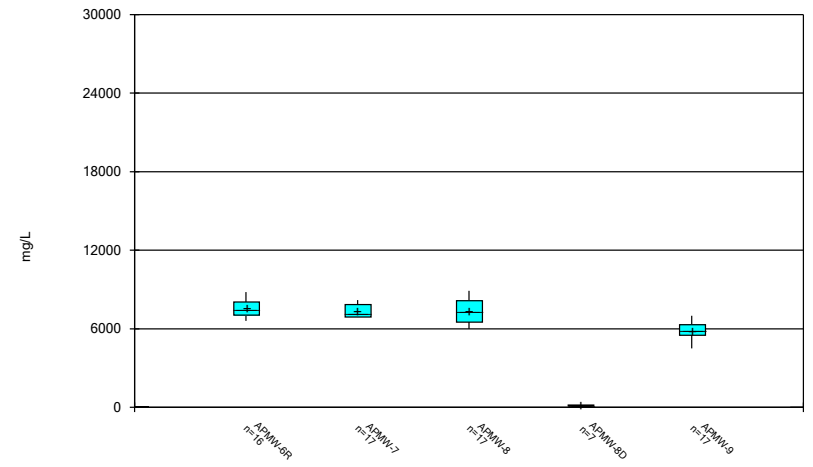
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 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 6/1/2023 10:58 AM
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 6/1/2023 10:58 AM
 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 6/1/2023, 10:42 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 Limits - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 6/1/2023, 10:46 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	APMW-10	1.2	n/a	3/13/2023	2.1	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	3/8/2023	5.3	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	3/8/2023	3.6	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	3/8/2023	5.7	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	3/9/2023	6.6	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	3/9/2023	11	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	3/9/2023	19	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	3/13/2023	6.2	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	3/8/2023	190	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	3/8/2023	370	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	3/8/2023	320	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	3/9/2023	310	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	3/9/2023	370	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	3/9/2023	470	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	3/13/2023	300	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	3/8/2023	8800	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	3/9/2023	7800	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-10	0.54	n/a	3/13/2023	0.87	Yes	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-8	0.54	n/a	3/9/2023	0.59	Yes	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.769	5.818	3/13/2023	6.97	Yes	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
Sulfate (mg/L)	APMW-3	870	n/a	3/8/2023	960	Yes	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	3/8/2023	17000	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	3/9/2023	15000	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 6/1/2023, 10:46 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	APMW-10	1.2	n/a	3/13/2023	2.1	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-1R	1.2	n/a	3/8/2023	5.3	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-2	1.2	n/a	3/8/2023	3.6	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-3	1.2	n/a	3/8/2023	5.7	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-4	1.2	n/a	3/8/2023	0.89	No	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-5	1.2	n/a	3/9/2023	6.6	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-6R	1.2	n/a	3/9/2023	11	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-7	1.2	n/a	3/9/2023	0.87	No	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-8	1.2	n/a	3/9/2023	19	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Boron (mg/L)	APMW-9	1.2	n/a	3/13/2023	6.2	Yes	60	n/a	n/a	21.67	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-10	130	n/a	3/13/2023	46	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-1R	130	n/a	3/8/2023	190	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-2	130	n/a	3/8/2023	370	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-3	130	n/a	3/8/2023	320	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-4	130	n/a	3/8/2023	120	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-5	130	n/a	3/9/2023	310	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-6R	130	n/a	3/9/2023	370	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-7	130	n/a	3/9/2023	110	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-8	130	n/a	3/9/2023	470	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Calcium (mg/L)	APMW-9	130	n/a	3/13/2023	300	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-10	5400	n/a	3/13/2023	620	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-1R	5400	n/a	3/8/2023	2300	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-2	5400	n/a	3/8/2023	2400	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-3	5400	n/a	3/8/2023	8800	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-4	5400	n/a	3/8/2023	2400	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-5	5400	n/a	3/9/2023	7800	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-6R	5400	n/a	3/9/2023	3700	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-7	5400	n/a	3/9/2023	4200	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-8	5400	n/a	3/9/2023	3300	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Chloride (mg/L)	APMW-9	5400	n/a	3/13/2023	2900	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-10	0.54	n/a	3/13/2023	0.87	Yes	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-1R	0.54	n/a	3/8/2023	0.086J	No	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-2	0.54	n/a	3/8/2023	0.068J	No	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-3	0.54	n/a	3/8/2023	0.19J	No	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-4	0.54	n/a	3/8/2023	0.25	No	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-5	0.54	n/a	3/9/2023	0.12J	No	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-6R	0.54	n/a	3/9/2023	0.11J	No	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-7	0.54	n/a	3/9/2023	0.14J	No	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-8	0.54	n/a	3/9/2023	0.59	Yes	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
Fluoride (mg/L)	APMW-9	0.54	n/a	3/13/2023	0.081J	No	62	n/a	n/a	24.19	n/a	n/a	0.0004905	NP Inter (normality) 1 of 2
pH (SU)	APMW-10	6.769	5.818	3/13/2023	6.97	Yes	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-1R	6.769	5.818	3/8/2023	6.23	No	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-2	6.769	5.818	3/8/2023	5.88	No	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-3	6.769	5.818	3/8/2023	6.53	No	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-4	6.769	5.818	3/8/2023	6.26	No	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-5	6.769	5.818	3/9/2023	6.28	No	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-6R	6.769	5.818	3/9/2023	6.04	No	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-7	6.769	5.818	3/9/2023	6.37	No	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-8	6.769	5.818	3/9/2023	6.5	No	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
pH (SU)	APMW-9	6.769	5.818	3/13/2023	6.22	No	61	6.293	0.2368	0	None	No	0.0003761	Param Inter 1 of 2
Sulfate (mg/L)	APMW-10	870	n/a	3/13/2023	2.5	No	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-1R	870	n/a	3/8/2023	5	No	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-2	870	n/a	3/8/2023	5.6	No	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-3	870	n/a	3/8/2023	960	Yes	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-4	870	n/a	3/8/2023	210	No	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2

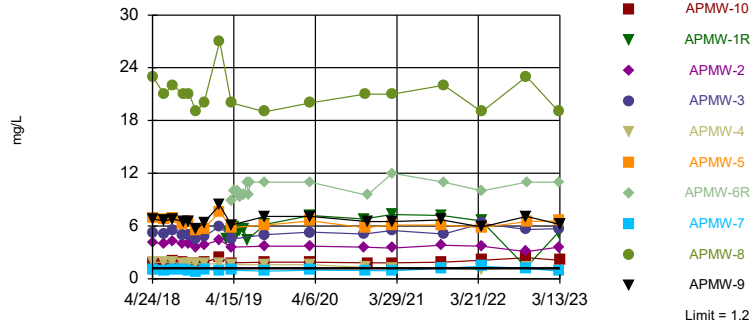
Interwell Prediction Limits - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 6/1/2023, 10:46 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	APMW-5	870	n/a	3/9/2023	810	No	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-6R	870	n/a	3/9/2023	810	No	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-7	870	n/a	3/9/2023	79	No	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-8	870	n/a	3/9/2023	570	No	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2
Sulfate (mg/L)	APMW-9	870	n/a	3/13/2023	250	No	59	n/a	n/a	10.17	n/a	n/a	0.0005383	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-10	9200	n/a	3/13/2023	1500	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-1R	9200	n/a	3/8/2023	4400	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-2	9200	n/a	3/8/2023	4000	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-3	9200	n/a	3/8/2023	17000	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-4	9200	n/a	3/8/2023	4600	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-5	9200	n/a	3/9/2023	15000	Yes	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-6R	9200	n/a	3/9/2023	7500	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-7	9200	n/a	3/9/2023	7900	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-8	9200	n/a	3/9/2023	7400	No	60	n/a	n/a	0	n/a	n/a	0.000517	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	APMW-9	9200	n/a	3/13/2023	6000	No	60	n/a	n/a	0	n/a	n/a	0.000517	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

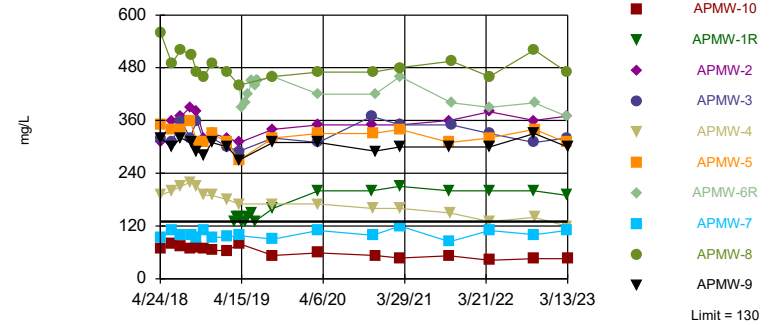


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. 21.67% NDs. Annual per-constituent alpha = 0.01029. Individual comparison alpha = 0.000517 (1 of 2). Comparing 10 points to limit.

Constituent: Boron Analysis Run 6/1/2023 10:44 AM 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

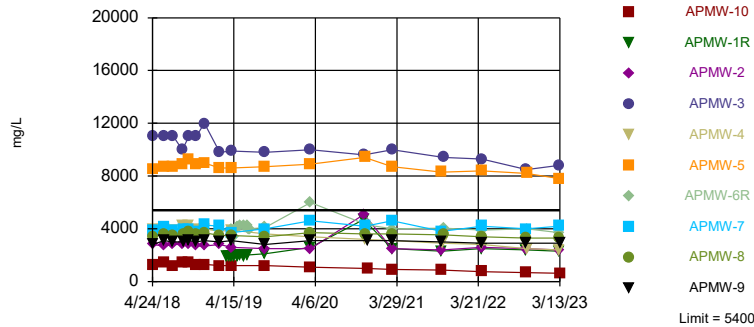


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. Annual per-constituent alpha = 0.01029. Individual comparison alpha = 0.000517 (1 of 2). Comparing 10 points to limit.

Constituent: Calcium Analysis Run 6/1/2023 10:44 AM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Exceeds Limit: APMW-3, APMW-5

Prediction Limit Interwell Non-parametric



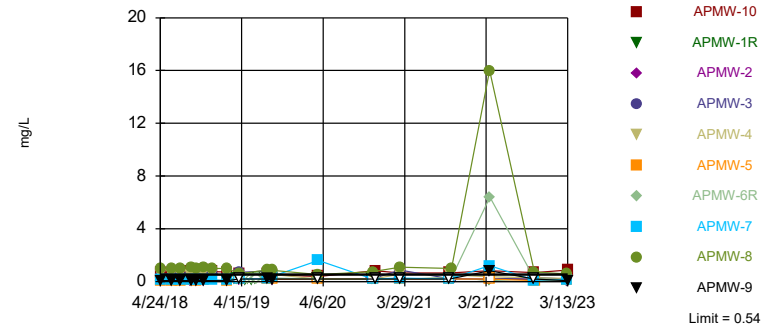
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. Annual per-constituent alpha = 0.01029. Individual comparison alpha = 0.000517 (1 of 2). Comparing 10 points to limit.

Constituent: Chloride Analysis Run 6/1/2023 10:44 AM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Hollow symbols indicate censored values.

Exceeds Limit: APMW-10, APMW-8

Prediction Limit Interwell Non-parametric

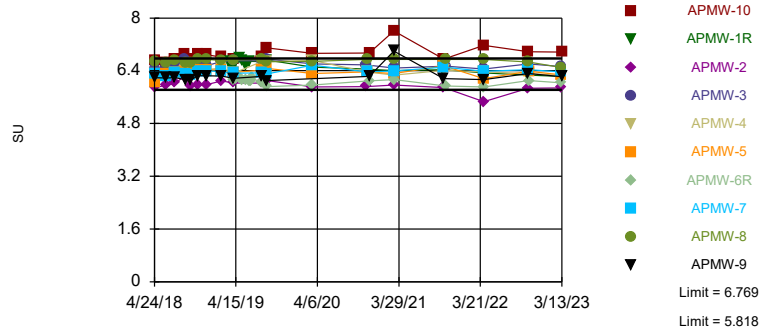


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 62 background values. 24.19% NDs. Annual per-constituent alpha = 0.009765. Individual comparison alpha = 0.0004905 (1 of 2). Comparing 10 points to limit.

Constituent: Fluoride Analysis Run 6/1/2023 10:44 AM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Exceeds Limits: APMW-10

Prediction Limit
Interwell Parametric



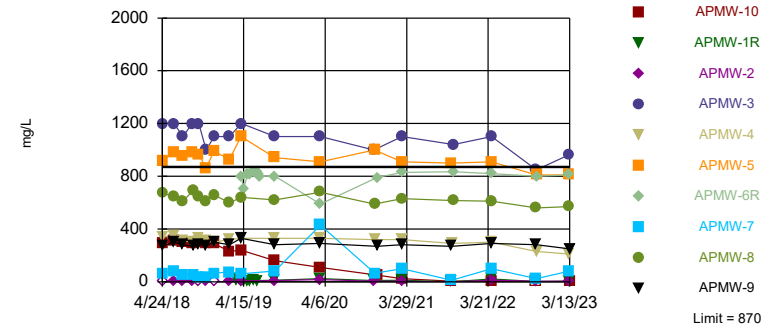
Background Data Summary: Mean=6.293, Std. Dev.=0.2368, n=61. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.959, critical = 0.946. Kappa = 2.007 (c=7, w=10, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0003761. Comparing 10 points to limit.

Constituent: pH Analysis Run 6/1/2023 10:44 AM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Hollow symbols indicate censored values.

Exceeds Limit: APMW-3

Prediction Limit
Interwell Non-parametric

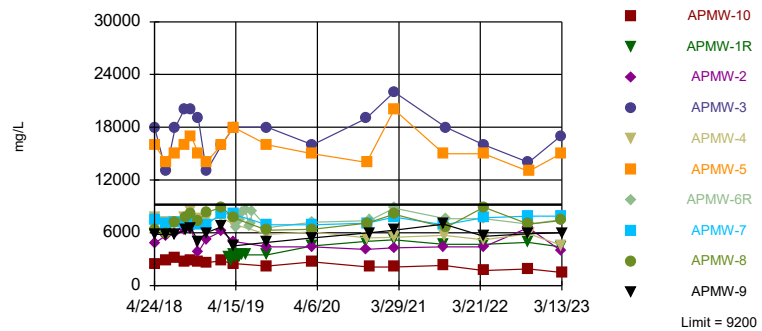


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 59 background values. 10.17% NDs. Annual per-constituent alpha = 0.01071. Individual comparison alpha = 0.0005383 (1 of 2). Comparing 10 points to limit.

Constituent: Sulfate Analysis Run 6/1/2023 10:44 AM 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 Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. Annual per-constituent alpha = 0.01029. Individual comparison alpha = 0.000517 (1 of 2). Comparing 10 points to limit.

Constituent: Total Dissolved Solids Analysis Run 6/1/2023 10:44 AM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/1/2023 10:46 AM View: Appendix III

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-7	APMW-8	APMW-10	APMW-9	APMW-11 (bg)
4/24/2018	4.1	5.3	1.9						
4/25/2018				6.9	1	23	1.7	6.8	
6/13/2018							1.7	6.6	
6/14/2018	4	5.1	1.9	6.8	0.91	21			
7/23/2018						22	2	6.8	
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					1.1	21		6.5	
10/1/2018	4	5	1.7						
10/2/2018				6.5	0.95	21	1.8	6.5	
11/1/2018						19	1.8	5.6	
11/2/2018	3.5	4.6	1.7	5.5	0.82				
12/6/2018			1.7	5.7	1.1	20	1.9	6.4	
12/7/2018	3.9	4.8							
2/13/2019	4.4	6	1.7	7.6	0.95	27	2.4	8.4	
3/16/2019									0.028 (J)
3/27/2019									0.027 (JD)
4/3/2019									0.089 (D)
4/4/2019				5.8	0.98	20	1.8	6.1	
4/5/2019	3.6	4.5	1.6						
4/15/2019									
4/16/2019									<0.08
5/2/2019									
5/3/2019									<0.08
5/14/2019									<0.08
5/28/2019									
5/29/2019									0.034 (J)
6/12/2019									0.05 (J)
6/19/2019									
6/25/2019									
8/29/2019									<0.08
8/30/2019	3.7	5	1.6	6.1	0.88	19	1.9	7.1	
3/16/2020	3.7	5.3	1.6						
3/17/2020				6.6	0.98	20	1.9	7.1	0.057 (J)
7/21/2020									
7/30/2020									
11/3/2020									
11/4/2020									
11/5/2020	3.6	5.1							
11/9/2020			1.3	5.8		21			<0.08
11/10/2020					0.94				
11/20/2020							1.8	6.5	
3/8/2021	3.5						1.8	6.5	
3/9/2021		5.5	1.2	6.1	0.91	21			
3/10/2021									<0.08
10/11/2021									0.053 (J)
10/12/2021	3.8			6.1	1.2		1.9	6.7	
10/14/2021			1.2						
10/15/2021									
10/20/2021									
10/21/2021		5.1				22			
4/4/2022									0.11

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/1/2023 10:46 AM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-7	APMW-8	APMW-10	APMW-9	APMW-11 (bg)
4/5/2022	3.7	6.3					2.1		
4/6/2022			1.1	5.8	1.4	19		5.9	
4/7/2022									
10/17/2022	3.1								<0.08
10/18/2022		5.6			1.2	23	2.4	7.1	
10/19/2022			1.3	6.5					
3/7/2023									<0.08
3/8/2023	3.6	5.7	0.89						
3/9/2023				6.6	0.87	19			
3/10/2023									
3/13/2023							2.1	6.2	
3/14/2023									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/1/2023 10:46 AM View: Appendix III
 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	0.035 (J)	4.5					
3/27/2019	0.033 (JD)	5.2					
4/3/2019	0.023 (JD)	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	0.021 (J)						
5/14/2019	<0.08	5.5	9.3				
5/28/2019		5.7					
5/29/2019	0.044 (J)		9.5				
6/12/2019	0.047 (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				0.718	0.609	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							
11/10/2020							
11/20/2020	0.098		9.5				
3/8/2021		7.3		0.71	0.59	0.63	0.6
3/9/2021			12				
3/10/2021	0.046 (J)						
10/11/2021	0.045 (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	0.082	6.6					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/1/2023 10:46 AM View: Appendix III
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)
4/5/2022							
4/6/2022							
4/7/2022			10	0.71	0.61	0.61	0.58
10/17/2022	<0.08	1.3					
10/18/2022							
10/19/2022			11	0.75	0.73	0.66	0.71
3/7/2023							
3/8/2023		5.3					
3/9/2023			11				
3/10/2023				0.69	0.66	0.66	0.67
3/13/2023							
3/14/2023	<0.08						

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/1/2023 10:46 AM View: Appendix III
 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	13	130					
3/27/2019	15 (D)	140					
4/3/2019	13 (D)	140					
4/4/2019							
4/5/2019			440 (D)				
4/15/2019		130	390				
4/16/2019	12						
5/2/2019		130	400				
5/3/2019	13						
5/14/2019	13	140	420				
5/28/2019		150					
5/29/2019	15		450				
6/12/2019	14	130	440				
6/19/2019			450				
6/25/2019			450				
8/29/2019	12						
8/30/2019		160	460				
3/16/2020		200					
3/17/2020	12		420				
7/21/2020				127	81.7	97.7	
7/30/2020							99.2
11/3/2020					120		
11/4/2020		200		120		110	130
11/5/2020							
11/9/2020							
11/10/2020							
11/20/2020	12		420				
3/8/2021		210		110	69	92	69
3/9/2021			460				
3/10/2021	12						
10/11/2021	12						
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	12	200					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/1/2023 10:46 AM View: Appendix III
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)
4/5/2022							
4/6/2022							
4/7/2022			390	110	64	96	67
10/17/2022	10	200					
10/18/2022							
10/19/2022			400	110	65	100	82
3/7/2023							
3/8/2023		190					
3/9/2023			370				
3/10/2023				110	60	91	57
3/13/2023							
3/14/2023	12						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/1/2023 10:46 AM View: Appendix III

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	14	1900					
3/27/2019	15 (D)	1900					
4/3/2019	15 (D)	1900					
4/4/2019							
4/5/2019			4000 (D)				
4/15/2019		1900	3400				
4/16/2019	14						
5/2/2019		1900	4100				
5/3/2019	15						
5/14/2019	15	2000	4200				
5/28/2019		1900					
5/29/2019	14		4200				
6/12/2019	15	2000	4200				
6/19/2019			4000				
6/25/2019			4000				
8/29/2019	14						
8/30/2019		2100	4100				
3/16/2020		2600					
3/17/2020	14		6000				
7/21/2020				2920	2910	1470	
7/30/2020							2830
11/3/2020					4900		
11/4/2020		4700		3100		5400	4700
11/5/2020							
11/9/2020							
11/10/2020							
11/20/2020	16		4300				
3/8/2021		2500		3000	2900	1600	2600
3/9/2021			4000				
3/10/2021	15						
10/11/2021	15						
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	14	2500					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/1/2023 10:46 AM View: Appendix III
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)
4/5/2022							
4/6/2022							
4/7/2022			3900	2900	3000	1400	3100
10/17/2022	13	2400					
10/18/2022							
10/19/2022			4000	2900	2700	1400	3000
3/7/2023							
3/8/2023		2300					
3/9/2023			3700				
3/10/2023				2700	2800	1300	2600
3/13/2023							
3/14/2023	14						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/1/2023 10:46 AM View: Appendix III

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-7	APMW-8	APMW-9	APMW-10	APMW-11 (bg)
4/24/2018	0.06 (J)	0.33	0.52						
4/25/2018				0.09 (J)	0.11	1	0.06 (J)	0.69	
6/13/2018							0.06 (J)	0.64	
6/14/2018	0.06 (J)	0.37	0.51	0.09 (J)	0.12	1			
7/23/2018						1	0.06 (J)	0.76	
7/24/2018	0.07 (J)	0.42	0.52	0.09 (J)	0.12				
9/1/2018	0.08 (J)	0.45	0.54	0.1					0.81
9/6/2018					0.13	1.1	0.06 (J)		
10/1/2018	0.07 (J)	0.39	0.54						
10/2/2018				0.09 (J)	0.13	1	0.07 (J)	0.78	
11/1/2018						1.1	0.07 (J)	0.88	
11/2/2018	0.08 (J)	0.42	0.58	0.11	0.14				
12/6/2018			0.51	1.4 (o)	0.13	0.98	0.21 (o)	0.75	
12/7/2018	4.3 (o)	0.64							
2/13/2019	0.05 (J)	0.35	0.48	0.07 (J)	0.1	0.98	0.07 (J)	0.72	
3/16/2019									0.047 (J)
3/27/2019									<0.2 (D)
4/3/2019									<0.2 (D)
4/4/2019				<0.2	<0.2	0.58 (J)	<0.2	0.63	
4/5/2019	0.14 (J)	0.7 (J)	0.31 (J)						
4/15/2019									
4/16/2019									0.034 (J)
5/2/2019									
5/3/2019									0.042 (J)
5/14/2019									0.039 (J)
5/28/2019									
5/29/2019									<0.2
6/12/2019									<0.2
6/19/2019									
6/25/2019									
8/8/2019	0.19 (J)	0.8 (J)					0.2 (J)	0.58	0.051 (J)
8/9/2019			0.51	<0.2	0.22 (J)	0.9 (J)			
8/29/2019									0.061 (J)
8/30/2019	0.17 (J)	<0.2	0.54 (J)	<0.2	0.41 (J)	0.85 (J)	0.18 (J)	0.5	
3/16/2020	<0.2	<0.2	<0.2						
3/17/2020				<0.2	1.6	0.52 (J)	<0.2	0.38	<0.2
7/21/2020									
7/30/2020									
11/3/2020									
11/4/2020									
11/5/2020	<0.2	<0.2							
11/9/2020			<0.2	<0.2		0.74 (J)			<0.2
11/10/2020					<0.2				
11/20/2020							<0.2	0.81	
3/8/2021	<0.2						<0.2	0.66	
3/9/2021		0.87 (J)	0.55 (J)	<0.2	0.26 (J)	1.1 (J)			
3/10/2021									0.056 (J)
10/11/2021									0.041 (J)
10/12/2021	0.22 (J)			<0.2	<0.2		<0.2	0.66	
10/14/2021			0.5 (J)						
10/15/2021									
10/20/2021									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/1/2023 10:46 AM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-7	APMW-8	APMW-9	APMW-10	APMW-11 (bg)
10/21/2021		<0.2				1 (J)			
4/4/2022									0.062 (J)
4/5/2022	<0.2	<0.2						0.82	
4/6/2022			0.36 (J)	<0.2	1.2 (J)	16	0.82 (J)		
4/7/2022									
10/17/2022	<0.2								<0.2
10/18/2022		0.32 (J)			0.084 (J)	0.73	<0.2	0.68	
10/19/2022			0.29	0.065 (J)					
3/7/2023									0.051 (J)
3/8/2023	0.068 (J)	0.19 (J)	0.25						
3/9/2023				0.12 (J)	0.14 (J)	0.59			
3/10/2023									
3/13/2023							0.081 (J)	0.87	
3/14/2023									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/1/2023 10:46 AM View: Appendix III

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-12 (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	0.041 (J)	<0.2					
3/27/2019	0.49 (D)	<0.2					
4/3/2019	0.086 (JD)	<0.2					
4/4/2019							
4/5/2019			<0.2 (D)				
4/15/2019		0.14 (J)	<0.2				
4/16/2019	0.055 (J)						
5/2/2019		0.13 (J)	<0.2				
5/3/2019	0.058 (J)						
5/14/2019	0.071 (J)	<0.2	<0.2				
5/28/2019		0.16 (J)					
5/29/2019	0.042 (J)		<0.2				
6/12/2019	0.037 (J)	<0.2	<0.2				
6/19/2019			<0.2				
6/25/2019			0.32 (J)				
8/8/2019	0.072 (J)	0.21 (J)					
8/9/2019			<0.2				
8/29/2019	0.065 (J)						
8/30/2019		0.21 (J)	0.27 (J)				
3/16/2020		<0.2					
3/17/2020	0.036 (J)		<0.2				
7/21/2020				0.17	0.07 (J)	0.09 (J)	
7/30/2020							0.19
11/3/2020				<0.2			
11/4/2020		<0.2			<0.2	0.24 (J)	<0.2
11/5/2020							
11/9/2020							
11/10/2020							
11/20/2020	<0.2		<0.2				
3/8/2021		<0.2		0.41 (J)	<0.2	0.17 (J)	0.28 (J)
3/9/2021			<0.2				
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 6/1/2023 10:46 AM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-12 (bg)	APMW-1R	APMW-6R	APMW-15 (bg)	APMW-14 (bg)	APMW-13 (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)	<0.2	0.39 (J)	0.54 (J)
10/17/2022	<0.2	<0.2					
10/18/2022							
10/19/2022			0.22	0.13 (J)	<0.2	0.034 (J)	0.094 (J)
3/7/2023							
3/8/2023		0.086 (J)					
3/9/2023			0.11 (J)				
3/10/2023				0.19 (J)	0.094 (J)	0.064 (J)	0.18 (J)
3/13/2023							
3/14/2023	0.045 (J)						

Prediction Limit

Constituent: pH (SU) Analysis Run 6/1/2023 10:46 AM View: Appendix III

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-11 (bg)	APMW-1R	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	6.97	6.67					
3/27/2019	6.7	6.59					
4/3/2019	6.45	6.56					
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	6.57	6.7	6.12				
5/28/2019		6.56					
5/29/2019	6.31		6.11				
6/12/2019	6.41	6.69	6.09				
6/19/2019			6.1				
6/25/2019			6.18				
8/8/2019	6.29	6.68					
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 6/1/2023 10:46 AM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-11 (bg)	APMW-1R	APMW-6R	APMW-14 (bg)	APMW-13 (bg)	APMW-15 (bg)	APMW-16 (bg)
10/21/2021							
4/4/2022	5.97	6.34					
4/5/2022							
4/6/2022							
4/7/2022			5.91	6.07	6.07	6.53	6.55
10/17/2022	6.19	6.27					
10/18/2022							
10/19/2022			6.1	6.07	6.08	6.58	6.64
3/7/2023	6.17						
3/8/2023		6.23					
3/9/2023			6.04				
3/10/2023				6	6	6.48	6.5
3/13/2023							
3/14/2023							

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/1/2023 10:46 AM View: Appendix III

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-7	APMW-8	APMW-9	APMW-10	APMW-1R
4/24/2018	<1	1200	340						
4/25/2018				920	65	670	270	290	
6/13/2018							300	310	
6/14/2018	7.2	1200	350	980	81	650			
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					53	690	270		
10/1/2018	<1	1200	330						
10/2/2018				960	34	650	280	300	
11/1/2018						610	270	290	
11/2/2018	1.9 (J)	1000	310	860	35				
12/6/2018			300	990	65	660	300	290	
12/7/2018	<1	1100							
2/13/2019	1.5 (J)	1100	320	930	74	600	280	230	
3/16/2019									14
3/27/2019									19
4/3/2019									4.6 (J)
4/4/2019				1100	61	640	330	240	
4/5/2019	7	1200	330						
4/15/2019									8.6
4/16/2019									
5/2/2019									6
5/3/2019									
5/14/2019									5.8
5/28/2019									9.4
5/29/2019									
6/12/2019									8.8
6/19/2019									
6/25/2019									
8/29/2019									
8/30/2019	8.4	1100	330	940	83	620	280	160	13
3/16/2020	16	1100	330						23
3/17/2020				910	430	680	290	110	
7/21/2020									
7/30/2020									
11/3/2020									
11/4/2020									10
11/5/2020	4.4 (J)	1000							
11/9/2020			320	1000		590			
11/10/2020					64				
11/20/2020							270	50	
3/8/2021	5.7						280	24	12
3/9/2021		1100	320	910	100	630			
3/10/2021									
10/11/2021									
10/12/2021	<1			900	13		270	4	<1
10/14/2021			290						
10/15/2021									
10/20/2021									
10/21/2021		1040 (D)				615 (D)			
4/4/2022									21

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/1/2023 10:46 AM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-4	APMW-5	APMW-7	APMW-8	APMW-9	APMW-10	APMW-1R
4/5/2022	11	1100						7.5	
4/6/2022			300	910	98	610	290		
4/7/2022									
10/17/2022	5.6								1.2
10/18/2022		850			25	560	280	<1	
10/19/2022			230	810					
3/7/2023									
3/8/2023	5.6	960	210						5
3/9/2023				810	79	570			
3/10/2023									
3/13/2023							250	2.5	
3/14/2023									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/1/2023 10:46 AM 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	0.88 (J)	3.6					
3/27/2019	1.3 (D)	0.81 (JD)					
4/3/2019	1.9 (D)	1.1 (D)					
4/4/2019							
4/5/2019			800 (D)				
4/15/2019			700				
4/16/2019	2.5	0.68 (J)					
5/2/2019			810				
5/3/2019	1.3	1.1					
5/14/2019	2.2	1.3	810				
5/28/2019							
5/29/2019	1.2	2.1	830				
6/12/2019	1.1	1.9	830				
6/19/2019			810				
6/25/2019			800				
8/29/2019	1.1	2.3					
8/30/2019			800				
3/16/2020							
3/17/2020	3.2	3.7	590				
7/21/2020				52.9	713	802	
7/30/2020							33.4
11/3/2020				550			
11/4/2020					670	1700 (o)	440
11/5/2020							
11/9/2020		0.51 (J)					
11/10/2020							
11/20/2020	0.79 (J)		790				
3/8/2021				97	740	720	72
3/9/2021			830				
3/10/2021	1.1	<1					
10/11/2021	<1	<1					
10/12/2021							
10/14/2021							
10/15/2021					730		55
10/20/2021			835 (D)	91.5 (D)		840	
10/21/2021							
4/4/2022	1.3	0.91 (J)					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/1/2023 10:46 AM 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			820	160	810	810	140
10/17/2022	<1	<1					
10/18/2022							
10/19/2022			800	76	830	810	57
3/7/2023		0.82 (J)					
3/8/2023							
3/9/2023			810				
3/10/2023				88	870	850	76
3/13/2023							
3/14/2023	<1						

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/1/2023 10:46 AM View: Appendix III
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-12 (bg)	APMW-11 (bg)	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	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				3760	6350	5400	
7/30/2020							5020
11/3/2020						9200	
11/4/2020				5400	6500		8500
11/5/2020							
11/9/2020		68					
11/10/2020							
11/20/2020	160		7400				
3/8/2021				3600	6800	6200	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	3400		5200	
10/21/2021							
4/4/2022	120	78					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/1/2023 10:46 AM View: Appendix III
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-12 (bg)	APMW-11 (bg)	APMW-6R	APMW-13 (bg)	APMW-14 (bg)	APMW-15 (bg)	APMW-16 (bg)
4/5/2022							
4/6/2022							
4/7/2022			7600	3400	6000	5100	5100
10/17/2022	120	86					
10/18/2022							
10/19/2022			7000	3600	5900	5700	5700
3/7/2023		86					
3/8/2023							
3/9/2023			7500				
3/10/2023				3600	5600	5000	4700
3/13/2023							
3/14/2023	120						

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 6/1/2023, 10:52 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	APMW-2	-0.1595	-68	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-11 (bg)	-1.379	-65	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	20.81	67	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-3	-438.9	-88	-63	Yes	17	0	n/a	n/a	0.01	NP
pH (SU)	APMW-10	0.07511	78	68	Yes	18	0	n/a	n/a	0.01	NP
pH (SU)	APMW-11 (bg)	-0.1515	-104	-63	Yes	17	0	n/a	n/a	0.01	NP
pH (SU)	APMW-12 (bg)	-0.0907	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-3	-38.77	-68	-63	Yes	17	0	n/a	n/a	0.01	NP

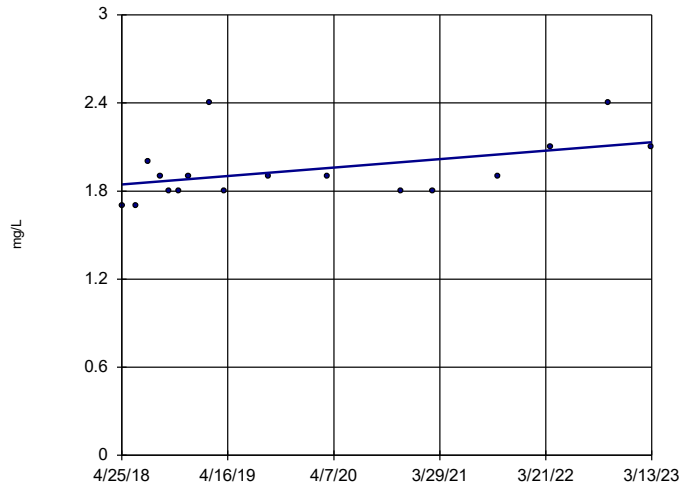
Appendix III Trend Tests - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 6/1/2023, 10:52 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	APMW-10	0.05882	51	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-11 (bg)	0.0006426	28	58	No	16	50	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-12 (bg)	0.01125	46	58	No	16	31.25	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-13 (bg)	0.01615	6	18	No	7	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-14 (bg)	-0.0127	-8	-18	No	7	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-15 (bg)	0.01848	5	18	No	7	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-16 (bg)	-0.0237	-3	-18	No	7	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-1R	0.6591	38	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-2	-0.1595	-68	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-3	0.1144	40	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-5	-0.06689	-21	-63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-6R	0.3824	49	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-8	-0.2703	-25	-63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	APMW-9	-0.03377	-14	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-11 (bg)	-1.379	-65	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-12 (bg)	-0.4117	-57	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-13 (bg)	-2.16	-7	-18	No	7	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-14 (bg)	-4.264	-11	-18	No	7	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-15 (bg)	-8.233	-17	-18	No	7	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-16 (bg)	-16.16	-11	-18	No	7	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-1R	20.81	67	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-2	6.922	30	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-3	0	2	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-5	-3.816	-28	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-6R	-6.769	-18	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-8	-4.748	-27	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	APMW-9	0	-13	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-11 (bg)	-0.1595	-27	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-12 (bg)	0	-18	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-13 (bg)	-149.6	-12	-18	No	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-14 (bg)	-92.41	-12	-18	No	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-15 (bg)	-123.7	-9	-18	No	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-16 (bg)	-98.92	-5	-18	No	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-3	-438.9	-88	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	APMW-5	-115.1	-40	-63	No	17	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-10	-0.00223	-3	-68	No	18	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-11 (bg)	0	10	63	No	17	41.18	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-12 (bg)	-0.001328	-5	-63	No	17	11.76	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-13 (bg)	-0.04845	-5	-18	No	7	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-14 (bg)	0	1	18	No	7	57.14	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-15 (bg)	0	0	18	No	7	14.29	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-16 (bg)	0.03411	1	18	No	7	14.29	n/a	n/a	0.01	NP
Fluoride (mg/L)	APMW-8	-0.06293	-43	-68	No	18	0	n/a	n/a	0.01	NP
pH (SU)	APMW-10	0.07511	78	68	Yes	18	0	n/a	n/a	0.01	NP
pH (SU)	APMW-11 (bg)	-0.1515	-104	-63	Yes	17	0	n/a	n/a	0.01	NP
pH (SU)	APMW-12 (bg)	-0.0907	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (SU)	APMW-13 (bg)	0.01496	2	18	No	7	0	n/a	n/a	0.01	NP
pH (SU)	APMW-14 (bg)	-0.00584	-4	-18	No	7	0	n/a	n/a	0.01	NP
pH (SU)	APMW-15 (bg)	0.01404	4	18	No	7	0	n/a	n/a	0.01	NP
pH (SU)	APMW-16 (bg)	0.009973	5	18	No	7	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-11 (bg)	-0.06411	-18	-58	No	16	18.75	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-12 (bg)	-0.07661	-35	-58	No	16	18.75	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-13 (bg)	18.21	8	14	No	6	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-14 (bg)	64.68	17	18	No	7	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-15 (bg)	-4.488	-3	-18	No	7	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-16 (bg)	1.995	3	18	No	7	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	APMW-3	-38.77	-68	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-11 (bg)	-5.898	-37	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-12 (bg)	-3.823	-30	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-13 (bg)	-71.22	-7	-18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-14 (bg)	-306.7	-11	-18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-15 (bg)	-216	-11	-18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-16 (bg)	-122.6	-3	-18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-3	0	-12	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	APMW-5	0	-16	-63	No	17	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

APMW-10



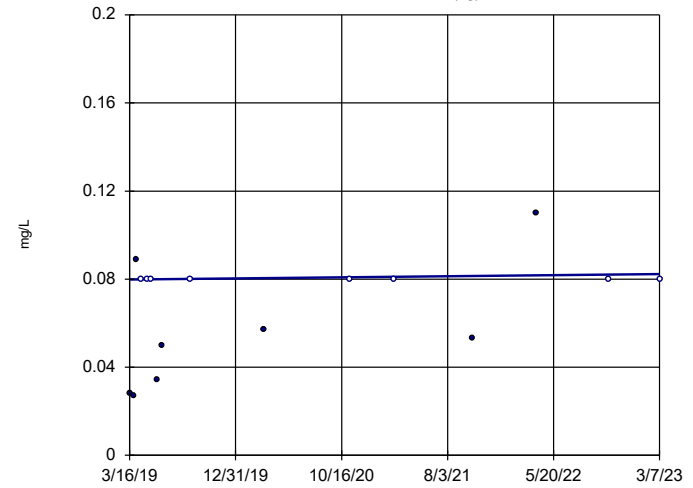
n = 17
 Slope = 0.05882 units per year.
 Mann-Kendall statistic = 51
 critical = 63
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Hollow symbols indicate censored values.

Sen's Slope Estimator

APMW-11 (bg)

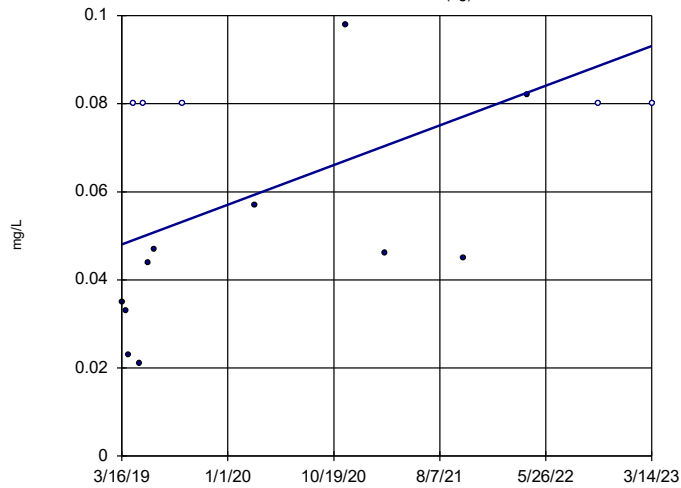


n = 16
 Slope = 0.0006426 units per year.
 Mann-Kendall statistic = 28
 critical = 58
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-12 (bg)

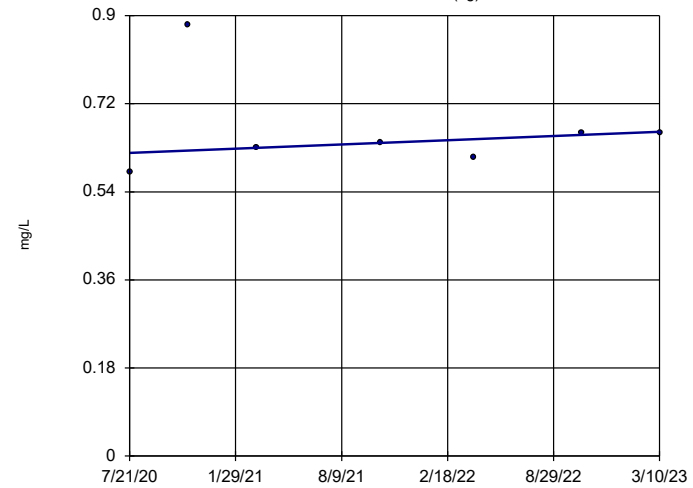


n = 16
 Slope = 0.01125 units per year.
 Mann-Kendall statistic = 46
 critical = 58
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-13 (bg)

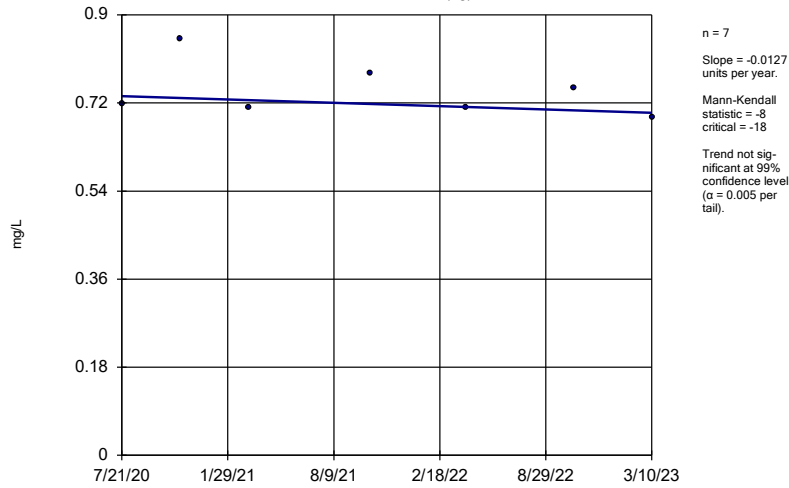


n = 7
 Slope = 0.01615 units per year.
 Mann-Kendall statistic = 6
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

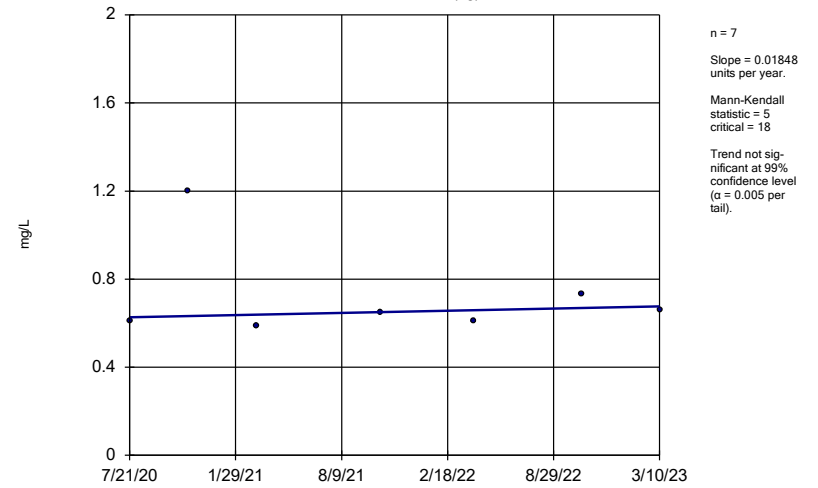
APMW-14 (bg)



Constituent: Boron Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

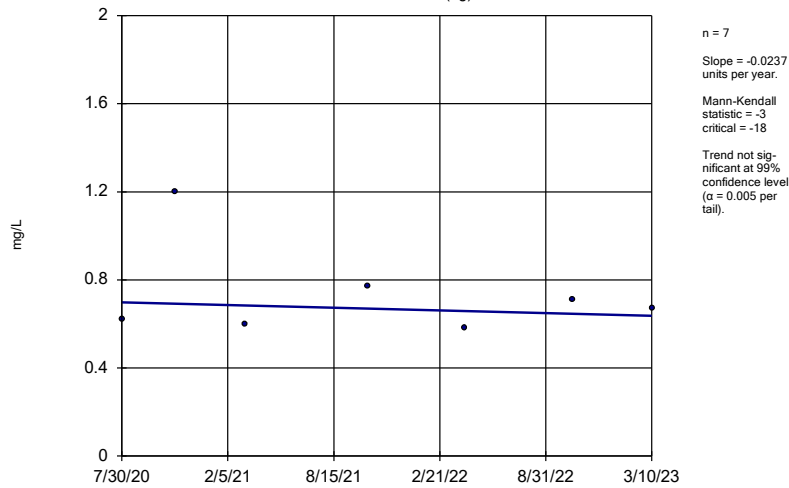
APMW-15 (bg)



Constituent: Boron Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

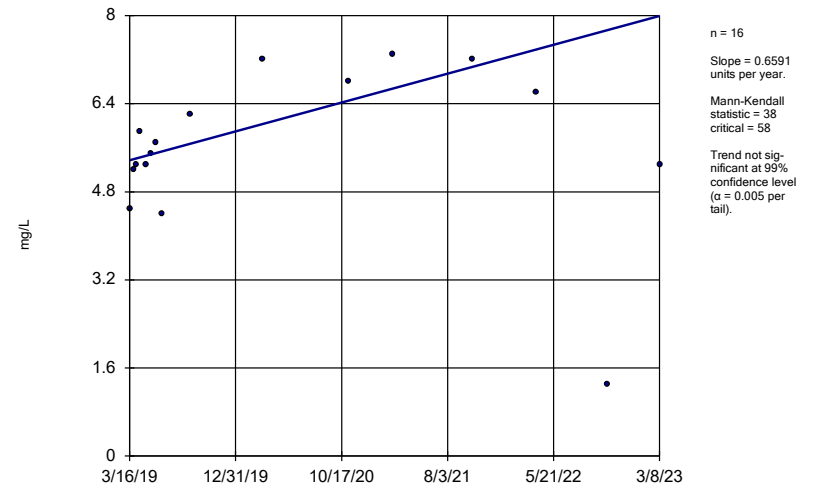
APMW-16 (bg)



Constituent: Boron Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

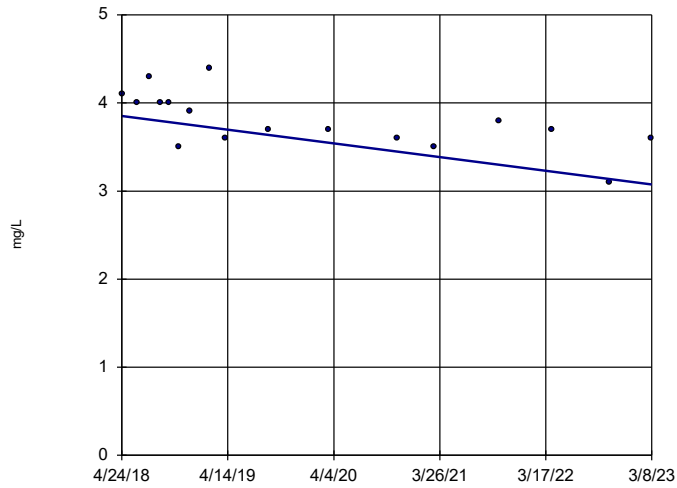
APMW-1R



Constituent: Boron Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

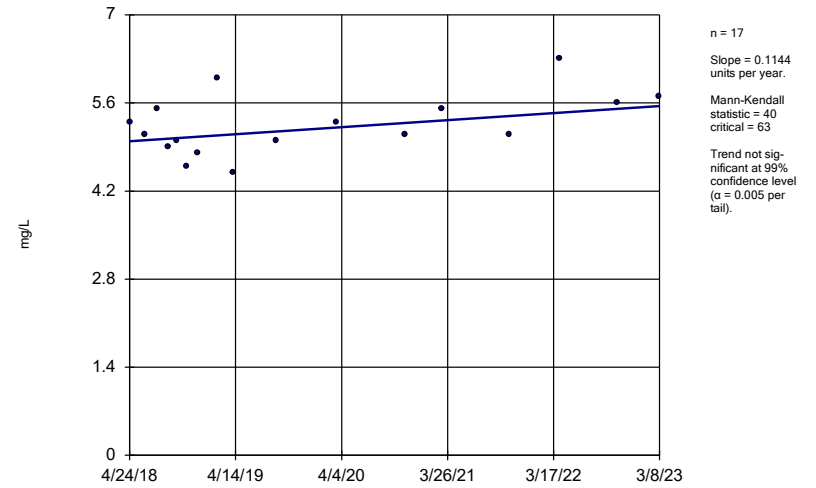
APMW-2



Constituent: Boron Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

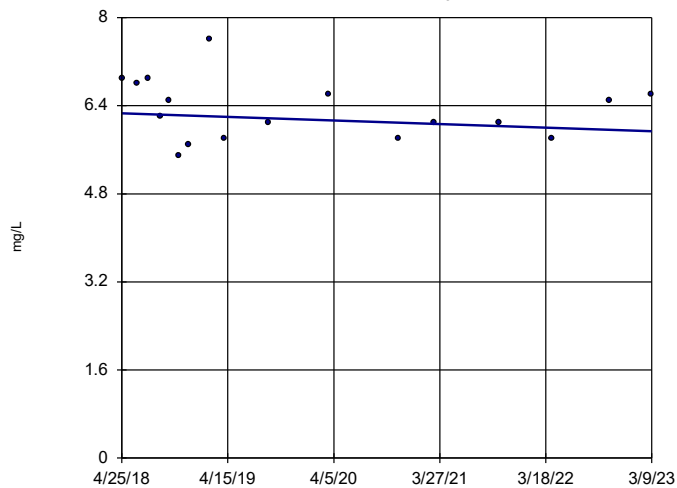
APMW-3



Constituent: Boron Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

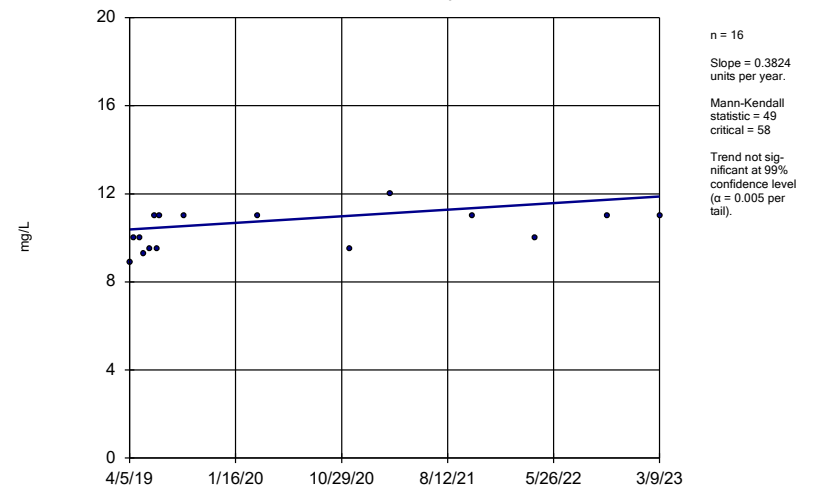
APMW-5



Constituent: Boron Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

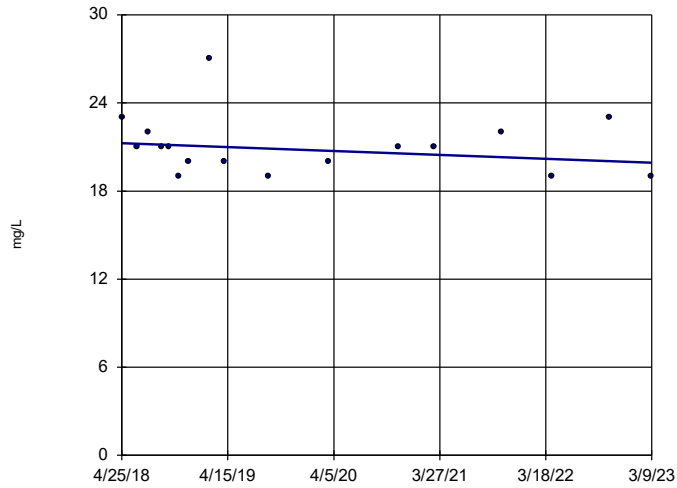
APMW-6R



Constituent: Boron Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-8

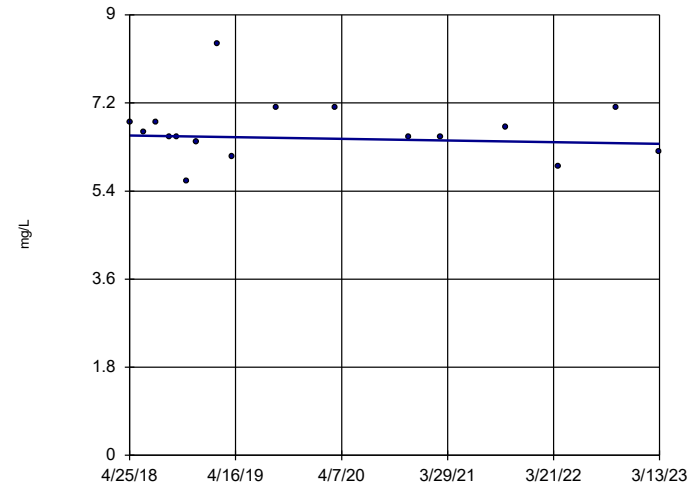


n = 17
 Slope = -0.2703
 units per year.
 Mann-Kendall
 statistic = -25
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Boron Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-9

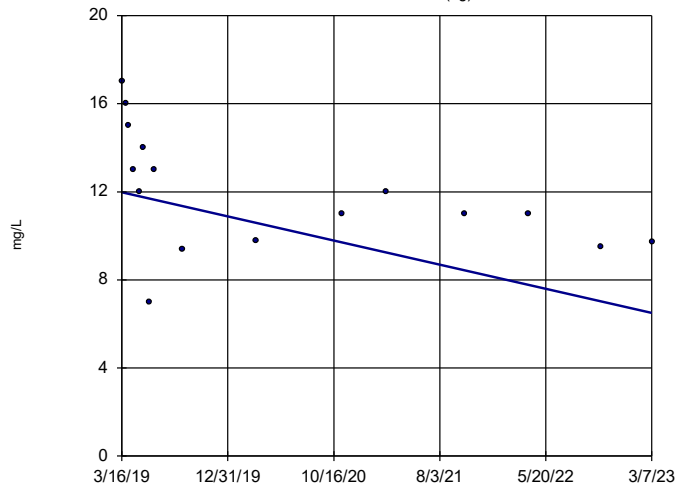


n = 17
 Slope = -0.03377
 units per year.
 Mann-Kendall
 statistic = -14
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Boron Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-11 (bg)

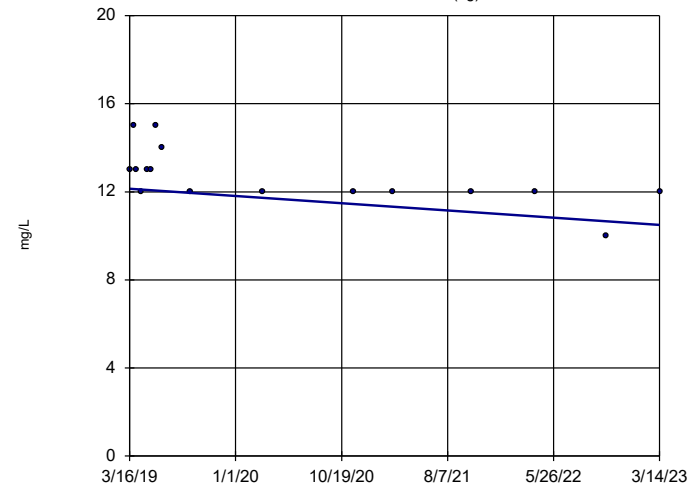


n = 16
 Slope = -1.379
 units per year.
 Mann-Kendall
 statistic = -65
 critical = -58
 Decreasing trend
 significant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Calcium Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-12 (bg)

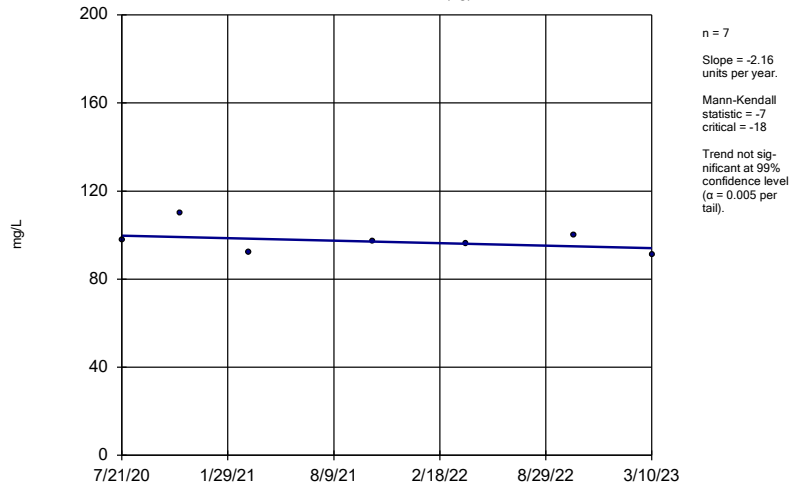


n = 16
 Slope = -0.4117
 units per year.
 Mann-Kendall
 statistic = -57
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Calcium Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

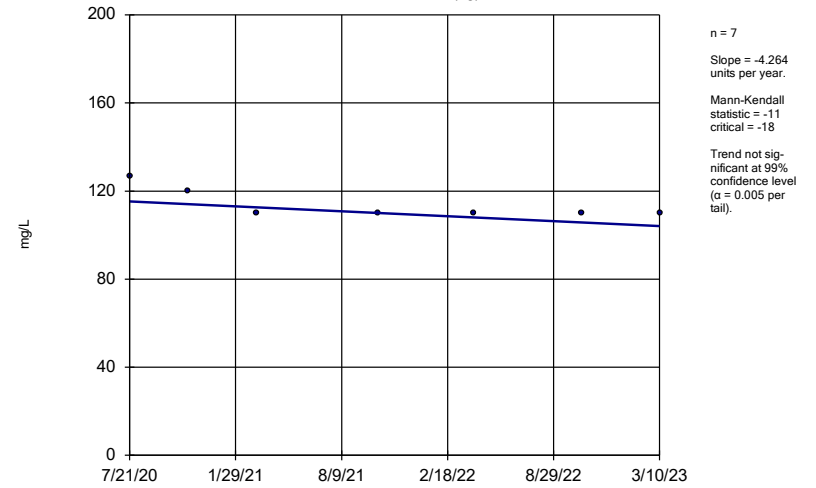
APMW-13 (bg)



Constituent: Calcium Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

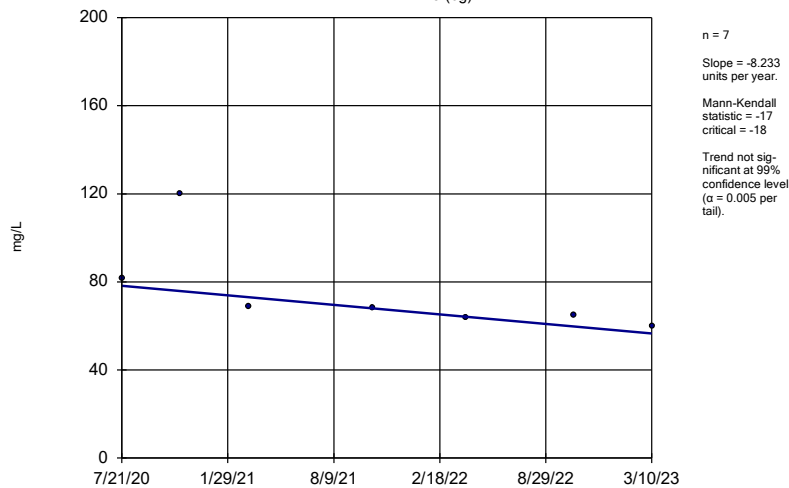
APMW-14 (bg)



Constituent: Calcium Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

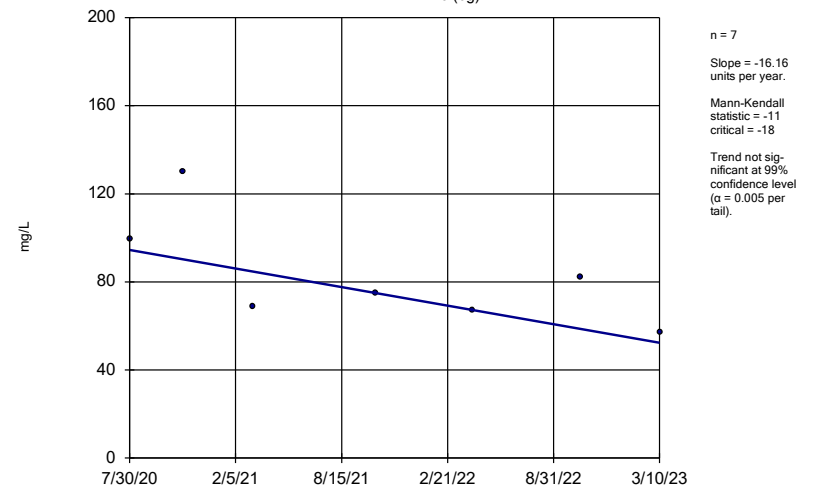
APMW-15 (bg)



Constituent: Calcium Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

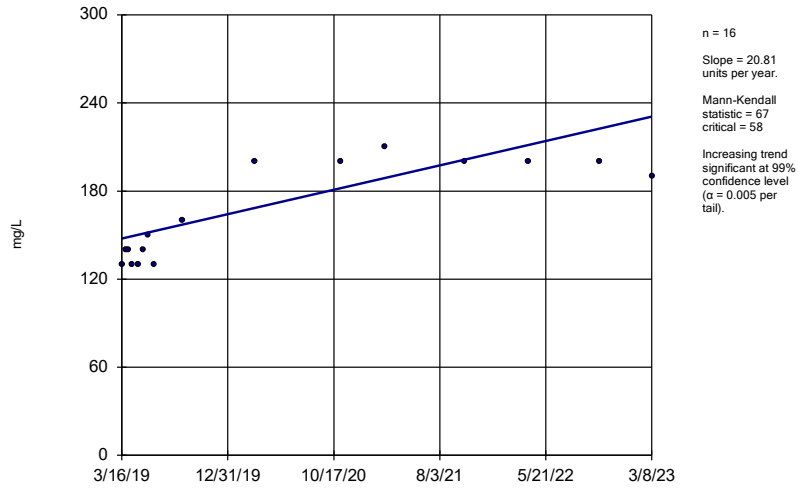
APMW-16 (bg)



Constituent: Calcium Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

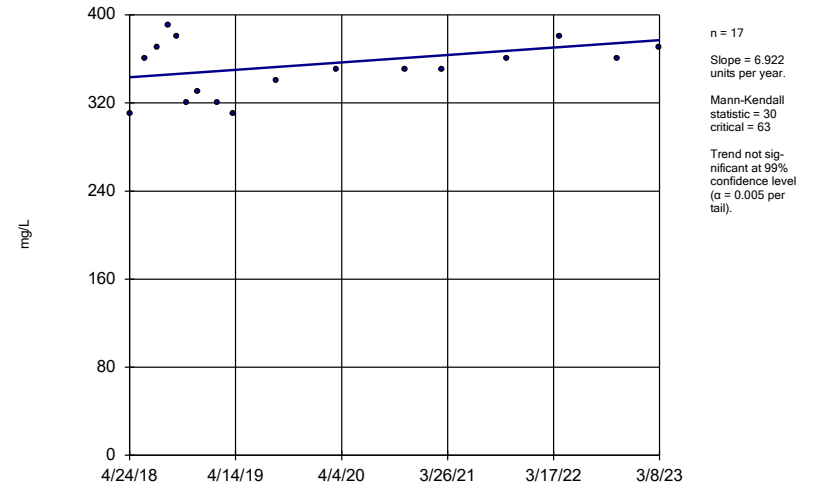
APMW-1R



Constituent: Calcium Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

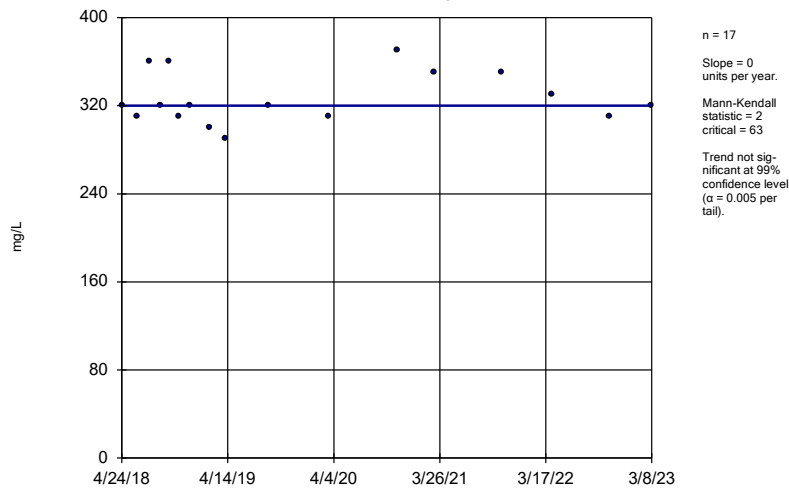
APMW-2



Constituent: Calcium Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

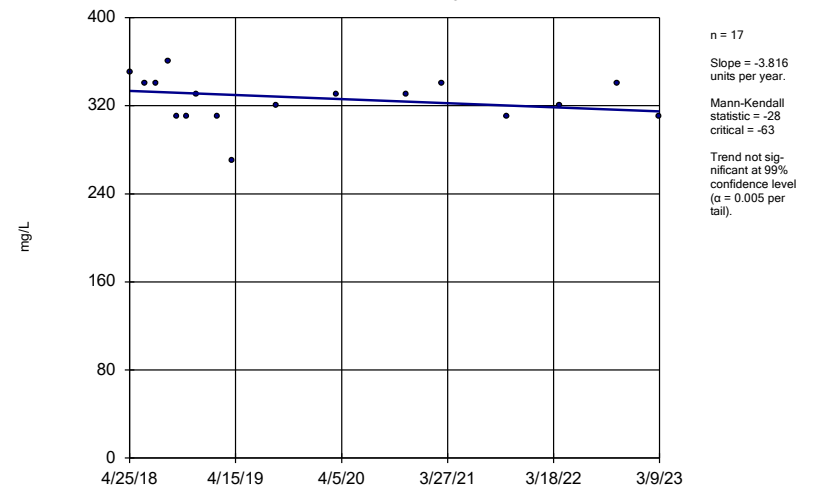
APMW-3



Constituent: Calcium Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

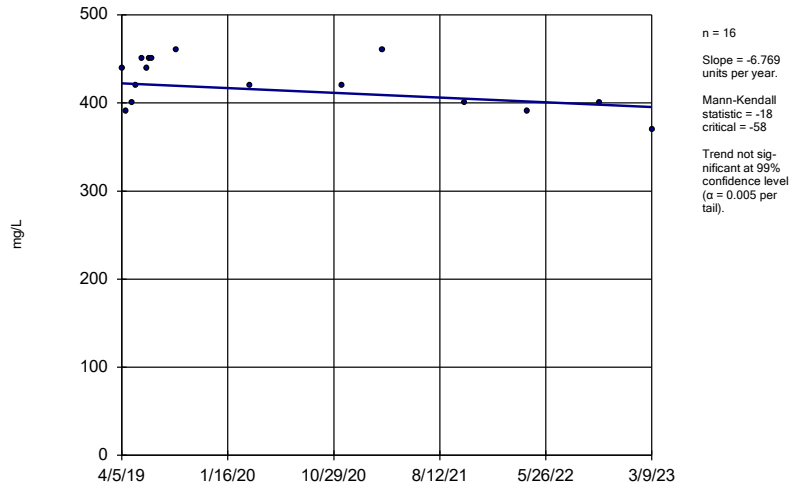
APMW-5



Constituent: Calcium Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

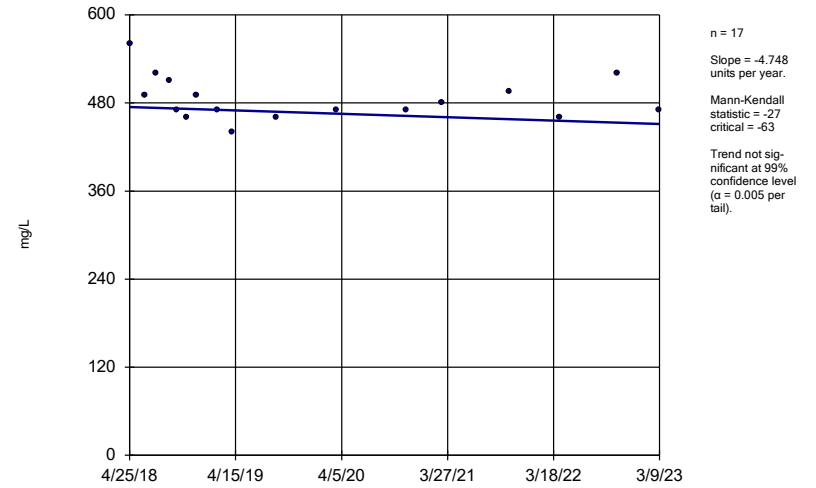
APMW-6R



Constituent: Calcium Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

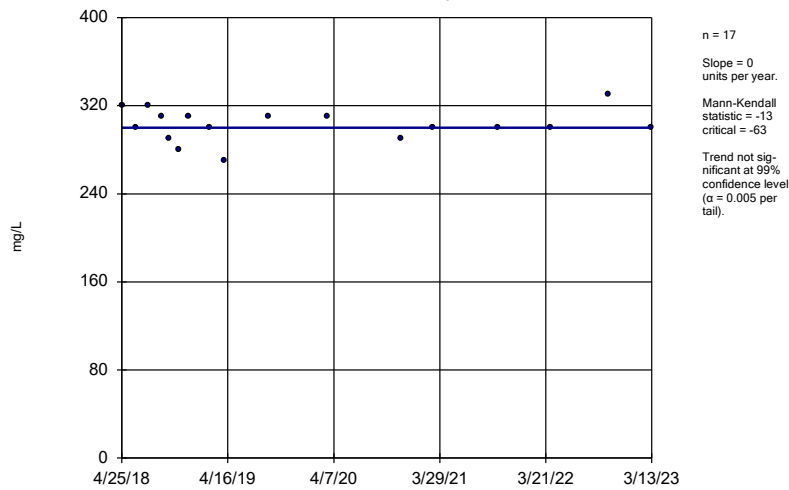
APMW-8



Constituent: Calcium Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

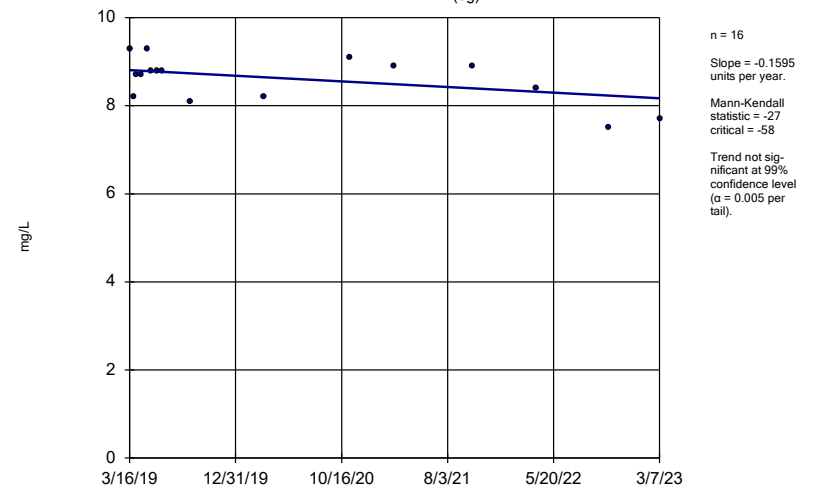
APMW-9



Constituent: Calcium Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

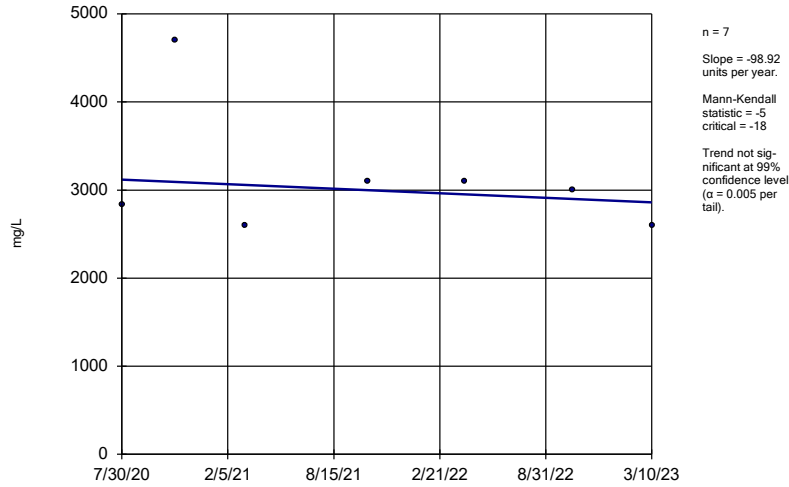
APMW-11 (bg)



Constituent: Chloride Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

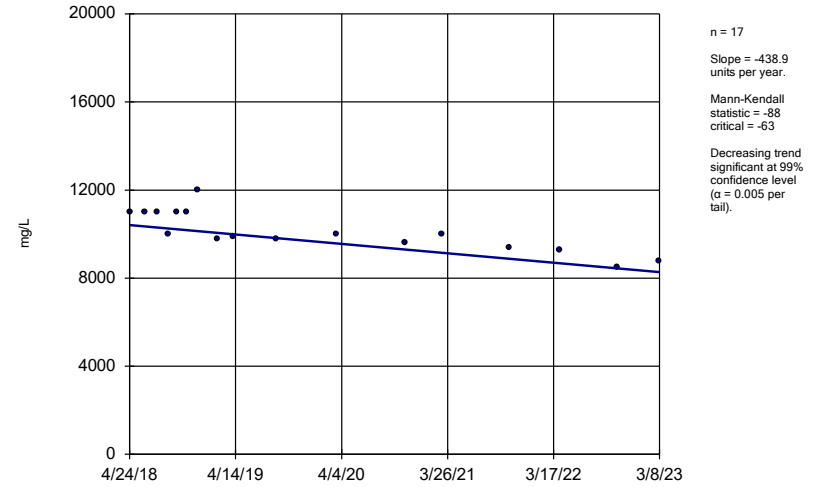
APMW-16 (bg)



Constituent: Chloride Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

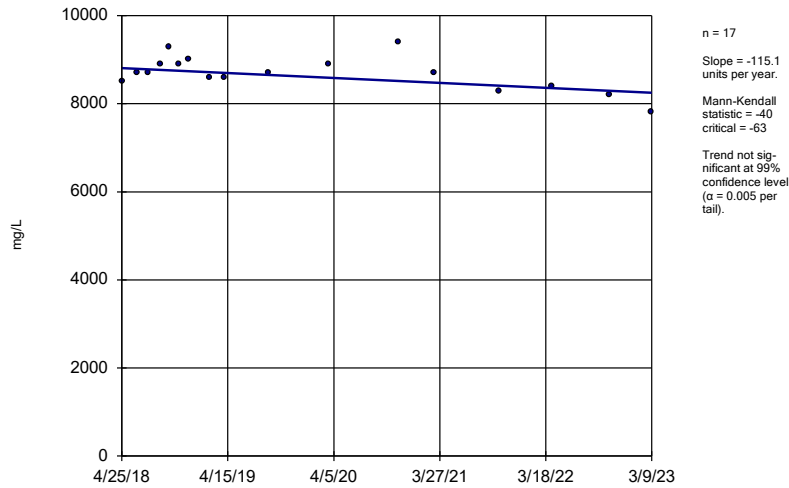
APMW-3



Constituent: Chloride Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

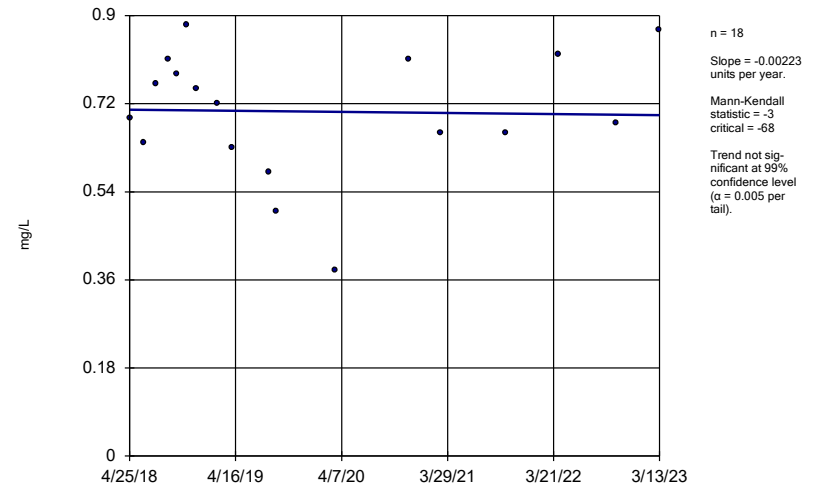
APMW-5



Constituent: Chloride Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

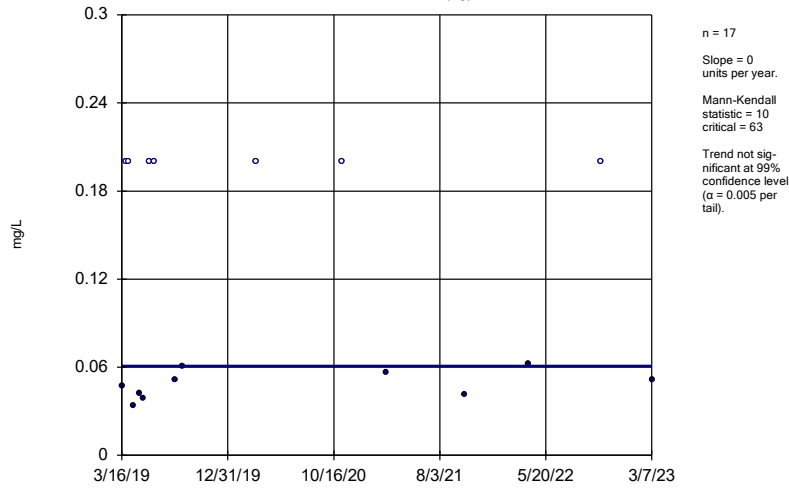
APMW-10



Constituent: Fluoride Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

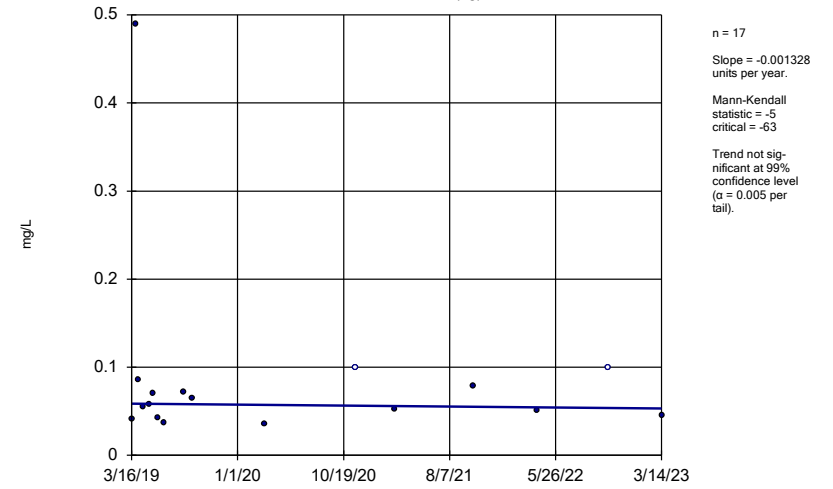
APMW-11 (bg)



Constituent: Fluoride Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

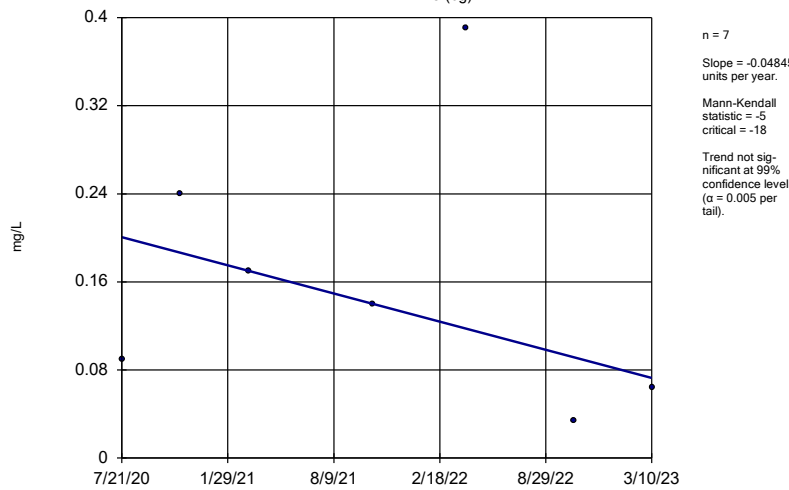
APMW-12 (bg)



Constituent: Fluoride Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

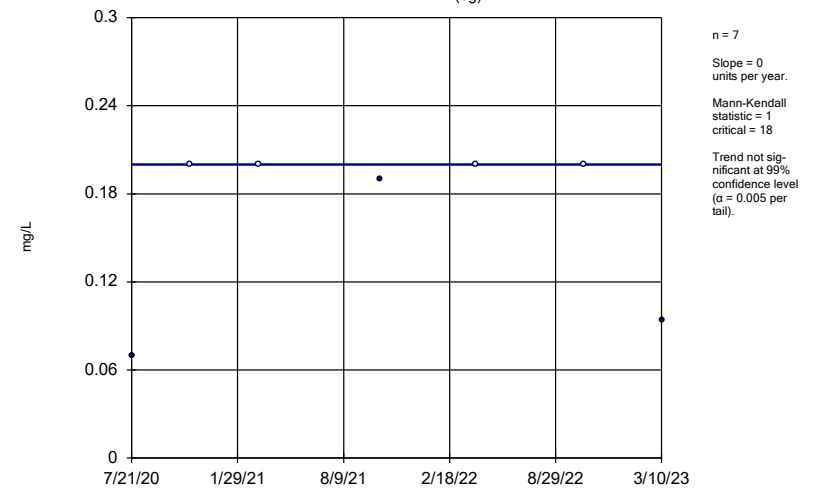
APMW-13 (bg)



Constituent: Fluoride Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

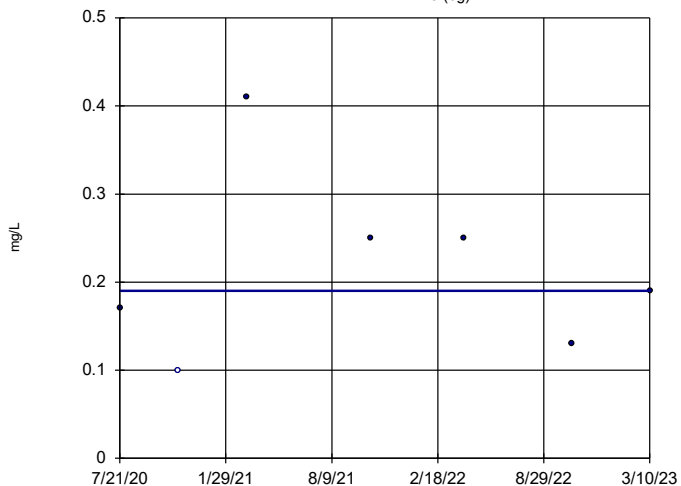
APMW-14 (bg)



Constituent: Fluoride Analysis Run 6/1/2023 10:50 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-15 (bg)

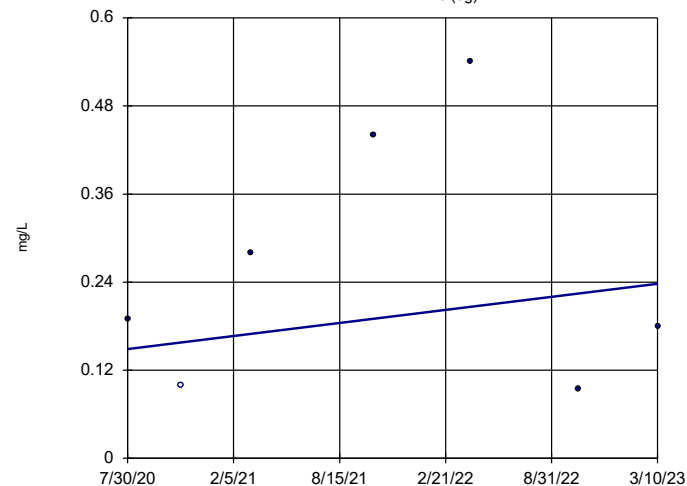


n = 7
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 18
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-16 (bg)

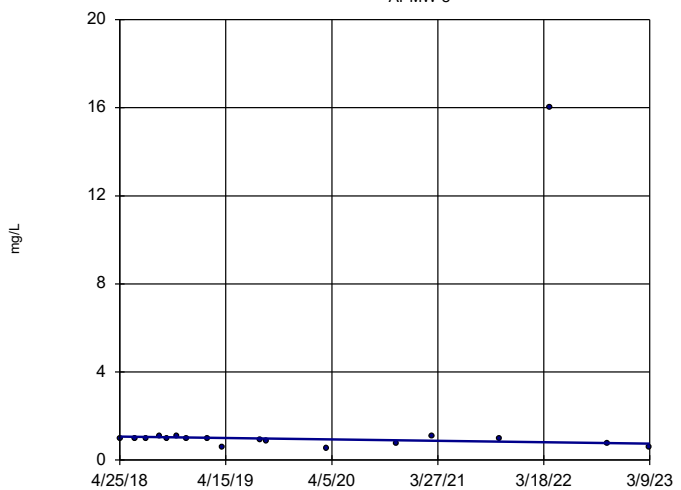


n = 7
Slope = 0.03411
units per year.
Mann-Kendall
statistic = 1
critical = 18
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-8

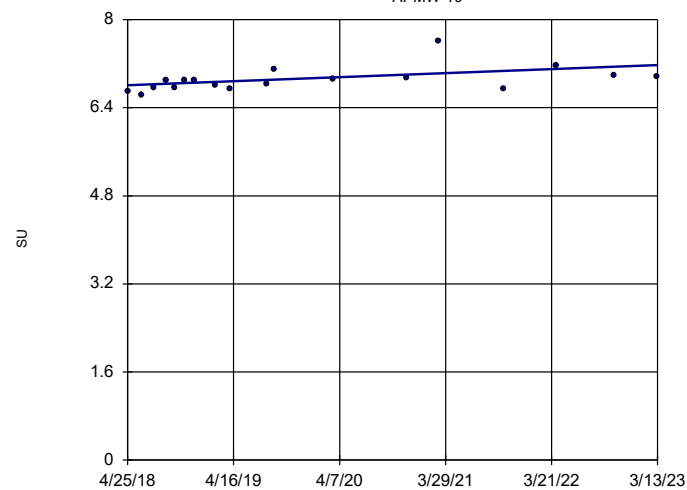


n = 18
Slope = -0.06293
units per year.
Mann-Kendall
statistic = -43
critical = -68
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-10

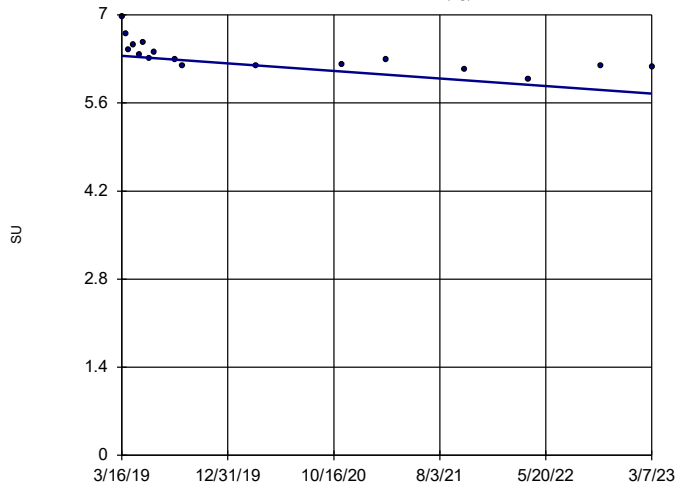


n = 18
Slope = 0.07511
units per year.
Mann-Kendall
statistic = 78
critical = 68
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: pH Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-11 (bg)

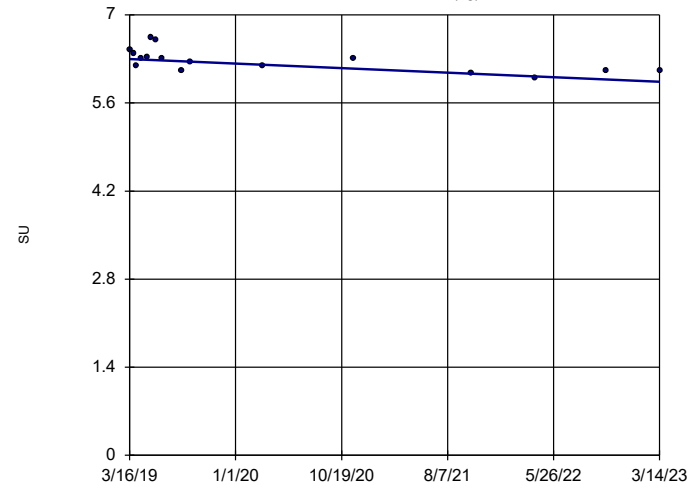


n = 17
 Slope = -0.1515
 units per year.
 Mann-Kendall
 statistic = -104
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-12 (bg)

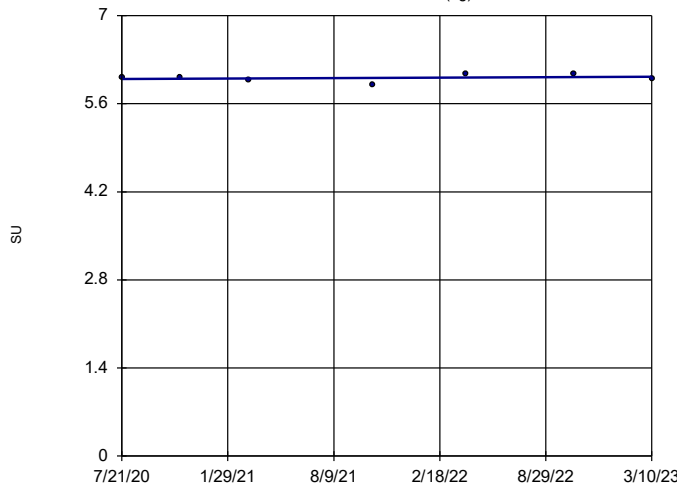


n = 16
 Slope = -0.0907
 units per year.
 Mann-Kendall
 statistic = -62
 critical = -58
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-13 (bg)

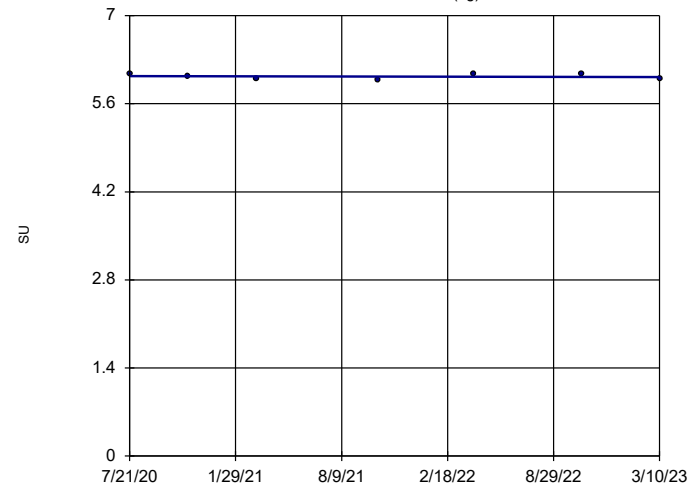


n = 7
 Slope = 0.01496
 units per year.
 Mann-Kendall
 statistic = 2
 critical = 18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-14 (bg)

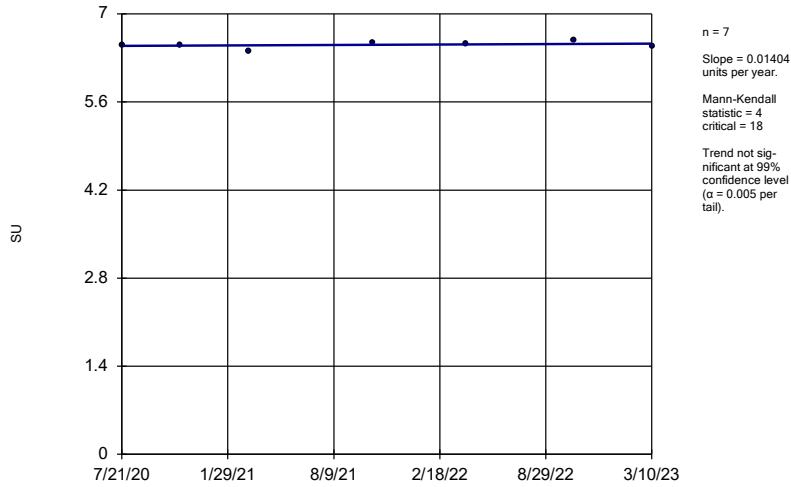


n = 7
 Slope = -0.00584
 units per year.
 Mann-Kendall
 statistic = -4
 critical = -18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

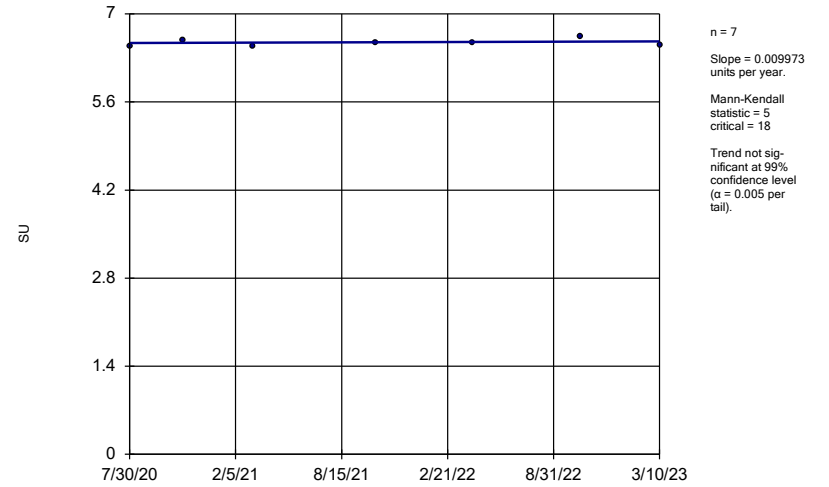
APMW-15 (bg)



Constituent: pH Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

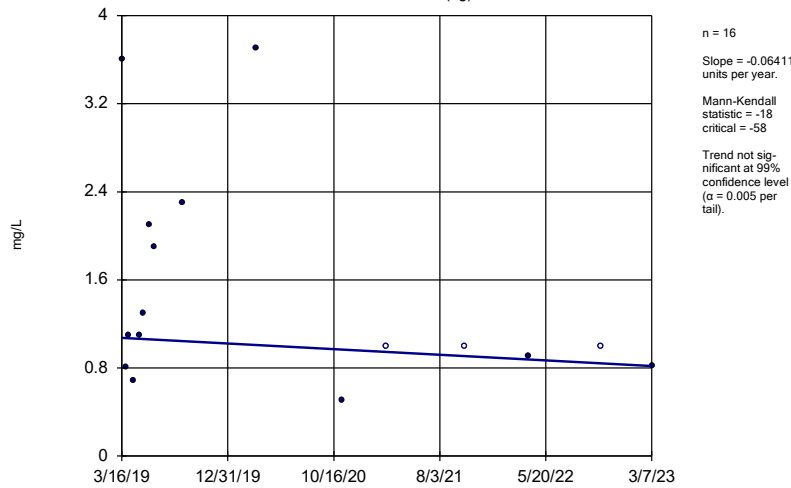
APMW-16 (bg)



Constituent: pH Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

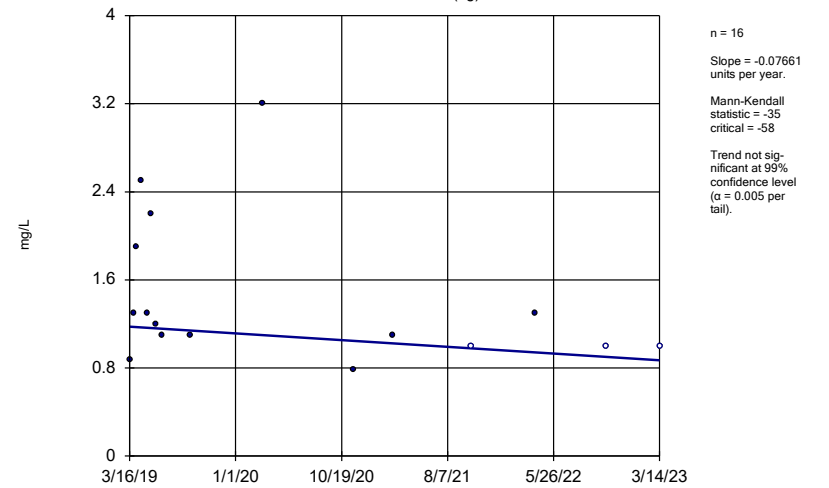
APMW-11 (bg)



Constituent: Sulfate Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

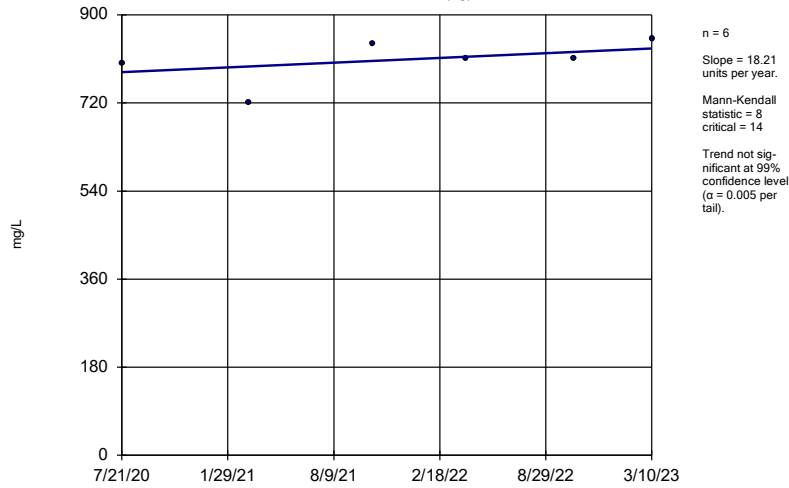
APMW-12 (bg)



Constituent: Sulfate Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

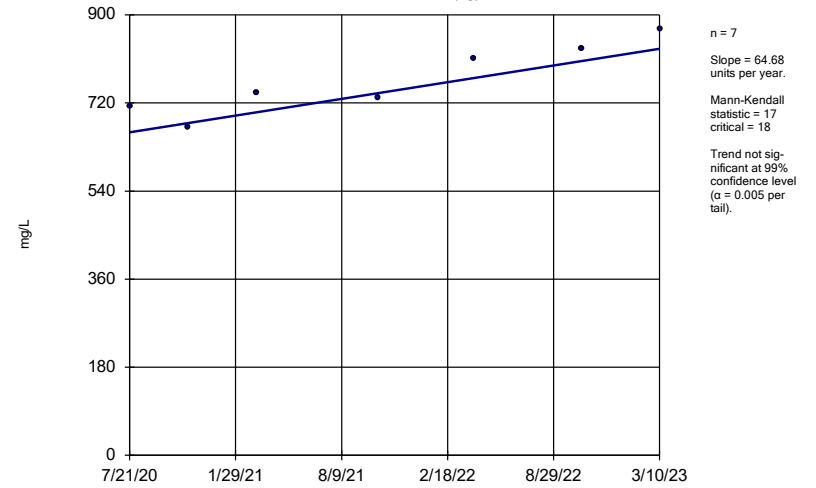
APMW-13 (bg)



Constituent: Sulfate Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

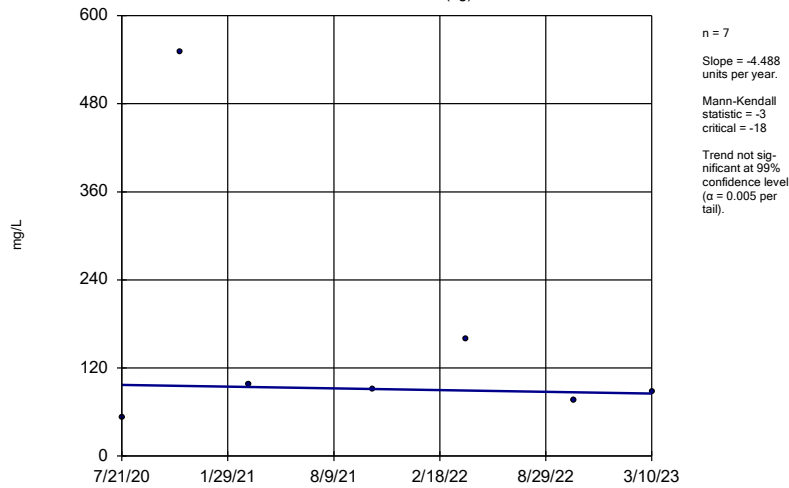
APMW-14 (bg)



Constituent: Sulfate Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

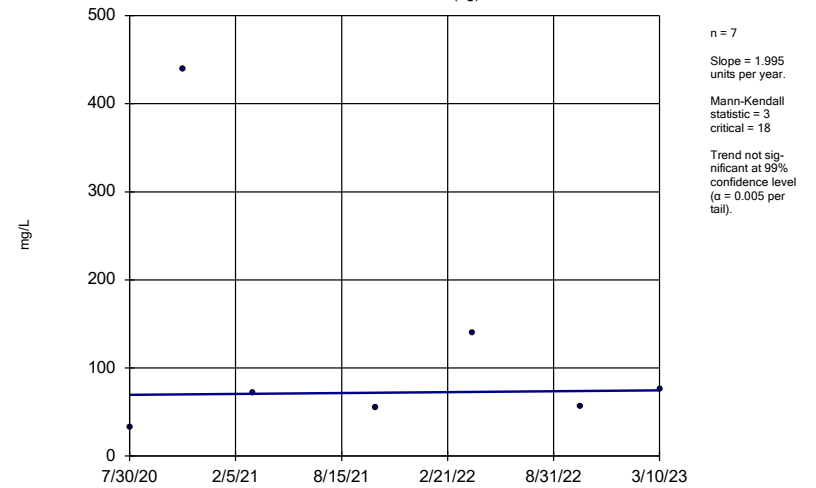
APMW-15 (bg)



Constituent: Sulfate Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

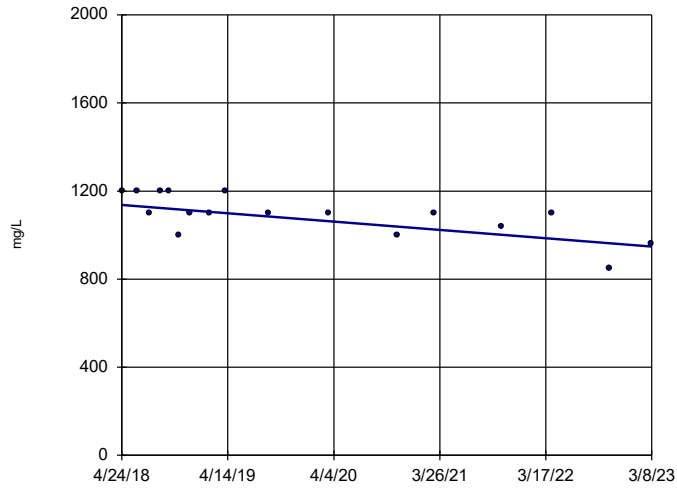
APMW-16 (bg)



Constituent: Sulfate Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

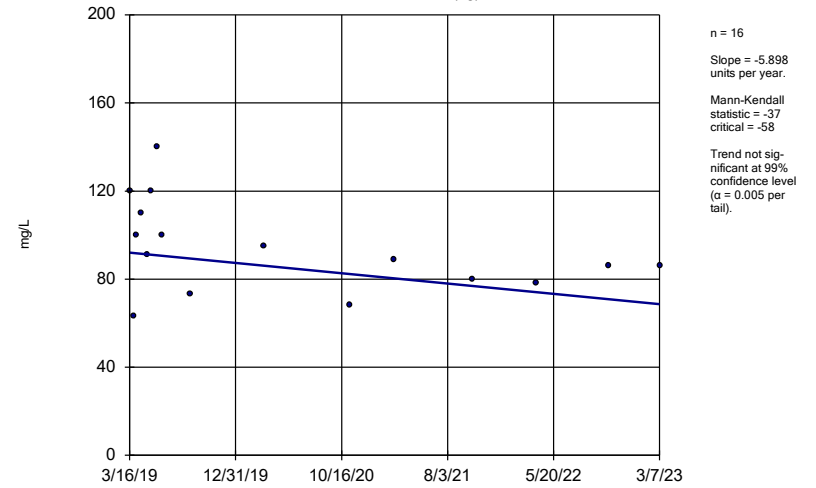
APMW-3



Constituent: Sulfate Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

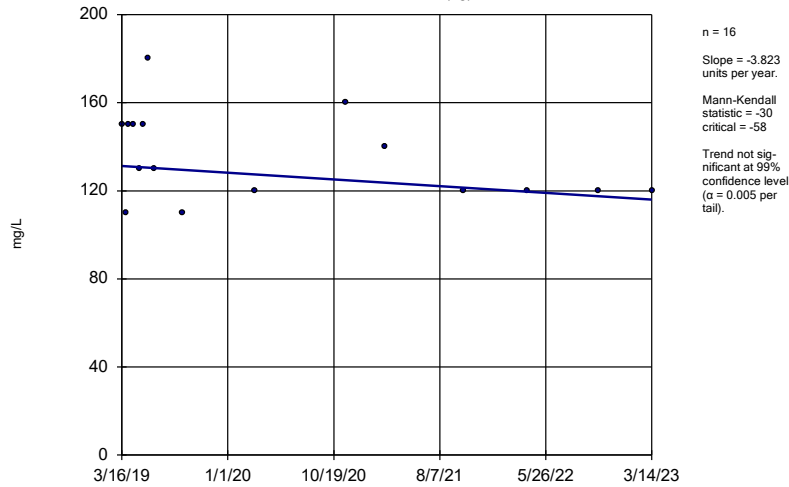
APMW-11 (bg)



Constituent: Total Dissolved Solids Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

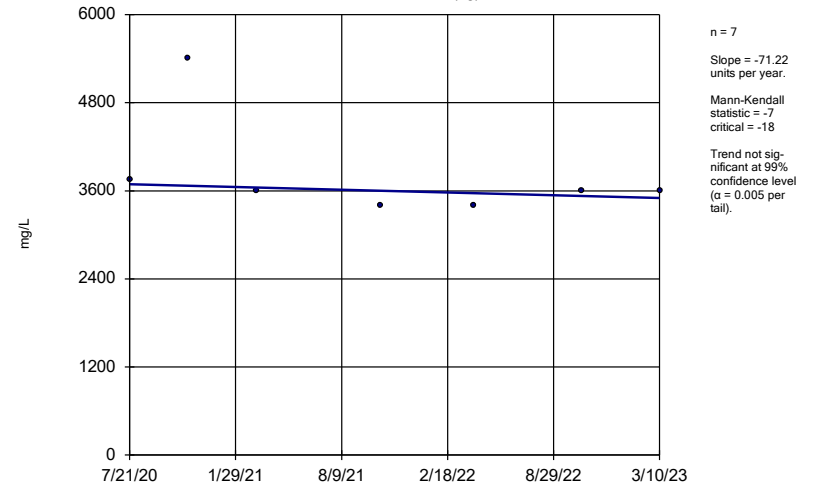
APMW-12 (bg)



Constituent: Total Dissolved Solids Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

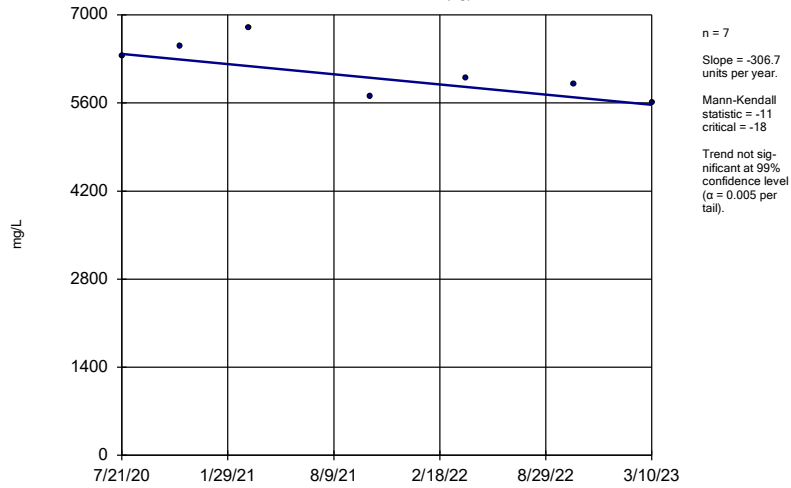
APMW-13 (bg)



Constituent: Total Dissolved Solids Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

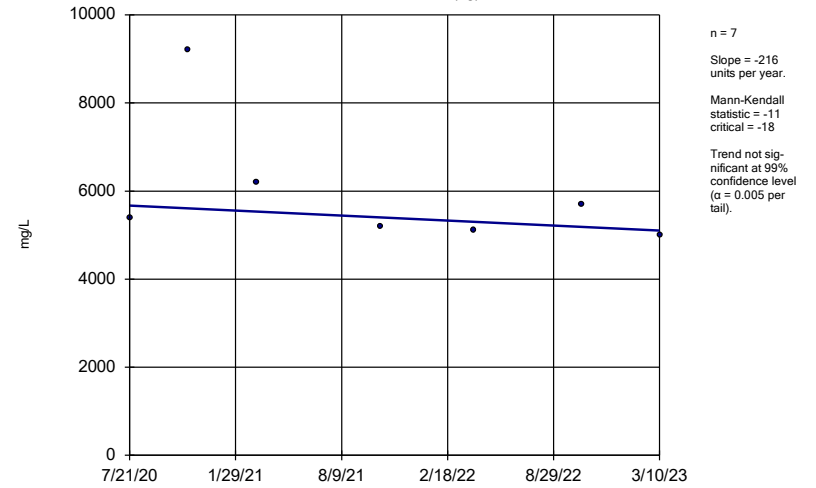
APMW-14 (bg)



Constituent: Total Dissolved Solids Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

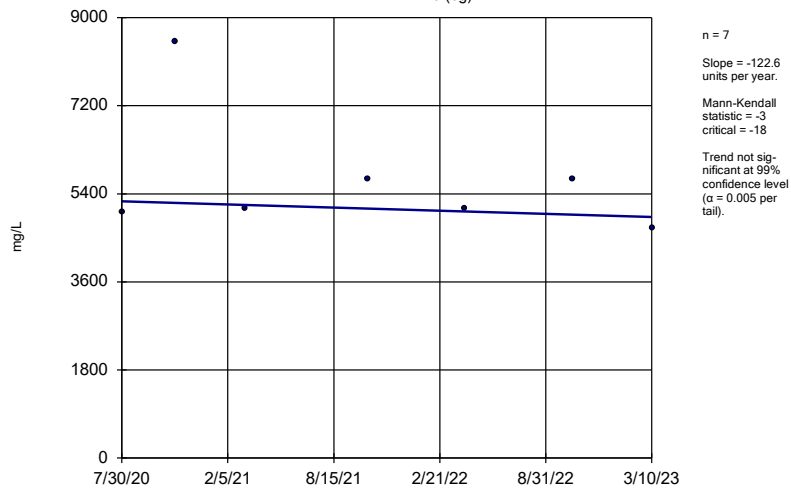
APMW-15 (bg)



Constituent: Total Dissolved Solids Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

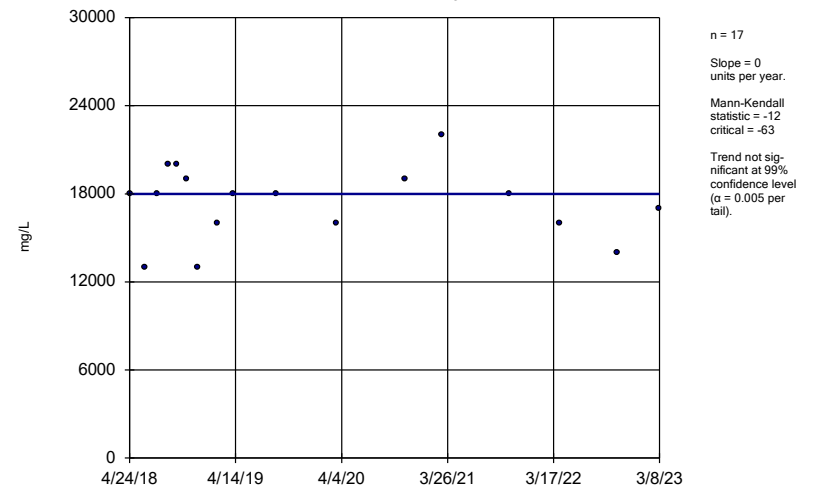
APMW-16 (bg)



Constituent: Total Dissolved Solids Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

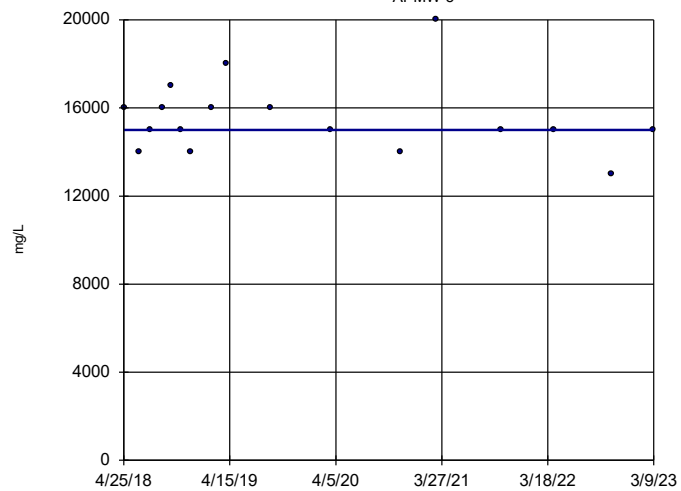
APMW-3



Constituent: Total Dissolved Solids Analysis Run 6/1/2023 10:51 AM View: Appendix III - Trend Tests
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Sen's Slope Estimator

APMW-5



n = 17
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -16
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 6/1/2023 10:51 AM View: Appendix III - 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 6/1/2023, 11:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a 62	n/a	n/a	98.39	n/a	n/a	0.04158	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.00496	n/a	n/a	n/a	n/a 62	n/a	n/a	40.32	n/a	n/a	0.04158	NP Inter(normality)
Barium (mg/L)	n/a	0.25	n/a	n/a	n/a	n/a 62	n/a	n/a	0	n/a	n/a	0.04158	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a 62	n/a	n/a	95.16	n/a	n/a	0.04158	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a 62	n/a	n/a	98.39	n/a	n/a	0.04158	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0044	n/a	n/a	n/a	n/a 58	n/a	n/a	87.93	n/a	n/a	0.05105	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a 62	n/a	n/a	88.71	n/a	n/a	0.04158	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	5.624	n/a	n/a	n/a	n/a 62	1.057	0.3587	3.226	None	x^(1/3)	0.05	Inter
Fluoride (mg/L)	n/a	0.54	n/a	n/a	n/a	n/a 62	n/a	n/a	24.19	n/a	n/a	0.04158	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 62	n/a	n/a	96.77	n/a	n/a	0.04158	NP Inter(NDs)
Lithium (mg/L)	n/a	0.02398	n/a	n/a	n/a	n/a 62	0.09788	0.02835	6.452	None	sqrt(x)	0.05	Inter
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a 58	n/a	n/a	96.55	n/a	n/a	0.05105	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	n/a 62	n/a	n/a	96.77	n/a	n/a	0.04158	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 62	n/a	n/a	100	n/a	n/a	0.04158	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 62	n/a	n/a	96.77	n/a	n/a	0.04158	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		5.62	5.62
Fluoride, Total (mg/L)	4		0.54	4
Lead, Total (mg/L)		0.015	0.001	0.015
Lithium, Total (mg/L)		0.04	0.024	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 6/2/2023, 11:33 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	APMW-10	0.1109	0.07115	0.01	Yes	17	0.08618	0.03652	0	None	x^2	0.01	Param.
Arsenic (mg/L)	APMW-3	0.07888	0.0593	0.01	Yes	17	0.06909	0.01562	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01798	0.01559	0.01	Yes	17	0.01569	0.003811	0	None	x^6	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2352	0.2095	0.01	Yes	17	0.2224	0.02047	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.1869	0.1377	0.01	Yes	17	0.1623	0.03925	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-8	0.07506	0.03906	0.01	Yes	17	0.05706	0.02872	0	None	No	0.01	Param.
Barium (mg/L)	APMW-2	3.415	3.009	2	Yes	17	3.212	0.3238	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	11.03	7.11	5.62	Yes	17	9.071	3.13	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.09	17.87	5.62	Yes	17	18.98	1.773	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	8.11	6.71	5.62	Yes	17	7.428	0.8931	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-3	0.08432	0.06963	0.04	Yes	17	0.07697	0.01172	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-4	0.06089	0.04952	0.04	Yes	17	0.05565	0.009842	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	APMW-6R	0.05784	0.05269	0.04	Yes	17	0.05526	0.004116	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-8	0.095	0.073	0.04	Yes	17	0.08785	0.02389	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-6R	0.4669	0.3837	0.1	Yes	17	0.4253	0.06634	0	None	No	0.01	Param.

Confidence Intervals - All Results

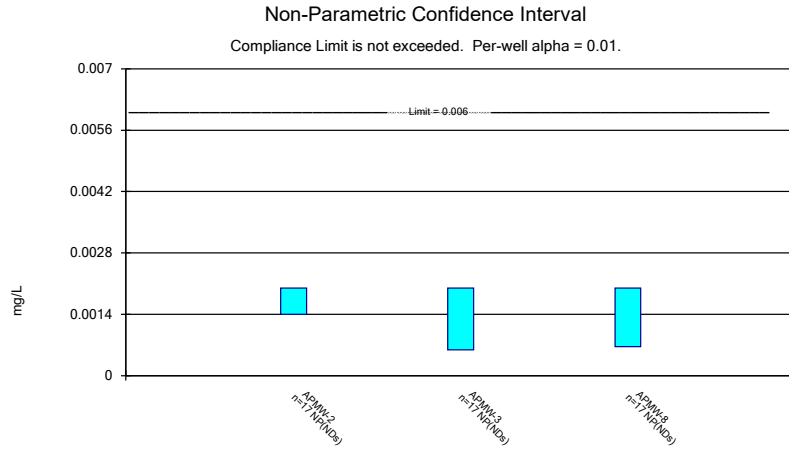
Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 6/2/2023, 11:33 AM

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	17	0.001965	0.0001455	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	APMW-3	0.002	0.00059	0.006	No	17	0.001917	0.000342	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	APMW-8	0.002	0.00066	0.006	No	17	0.001921	0.000325	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	APMW-10	0.1109	0.07115	0.01	Yes	17	0.08618	0.03652	0	None	x^2	0.01	Param.
Arsenic (mg/L)	APMW-1R	0.001711	0.0006871	0.01	No	17	0.001279	0.0008388	11.76	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	APMW-2	0.0012	0.00094	0.01	No	17	0.0009565	0.0001744	76.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	APMW-3	0.07888	0.0593	0.01	Yes	17	0.06909	0.01562	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-4	0.01798	0.01559	0.01	Yes	17	0.01569	0.003811	0	None	x^6	0.01	Param.
Arsenic (mg/L)	APMW-5	0.2352	0.2095	0.01	Yes	17	0.2224	0.02047	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-6R	0.1869	0.1377	0.01	Yes	17	0.1623	0.03925	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-7	0.0021	0.00048	0.01	No	17	0.00116	0.0008757	0	None	No	0.01	NP (normality)
Arsenic (mg/L)	APMW-8	0.07506	0.03906	0.01	Yes	17	0.05706	0.02872	0	None	No	0.01	Param.
Arsenic (mg/L)	APMW-9	0.001416	0.001172	0.01	No	17	0.001294	0.0001952	0	None	No	0.01	Param.
Barium (mg/L)	APMW-10	0.3123	0.2436	2	No	17	0.2794	0.05629	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	APMW-1R	1.5	0.93	2	No	17	1.192	0.3023	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-2	3.415	3.009	2	Yes	17	3.212	0.3238	0	None	No	0.01	Param.
Barium (mg/L)	APMW-3	0.11	0.098	2	No	17	0.1021	0.006508	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-4	0.5	0.22	2	No	17	0.3547	0.138	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-5	0.11	0.093	2	No	17	0.1019	0.008038	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-6R	0.06299	0.05089	2	No	17	0.05694	0.00966	0	None	No	0.01	Param.
Barium (mg/L)	APMW-7	0.8453	0.6347	2	No	17	0.74	0.168	0	None	No	0.01	Param.
Barium (mg/L)	APMW-8	0.24	0.2	2	No	17	0.2224	0.02412	0	None	No	0.01	NP (normality)
Barium (mg/L)	APMW-9	0.4847	0.4353	2	No	17	0.46	0.03937	0	None	No	0.01	Param.
Beryllium (mg/L)	APMW-10	0.0025	0.00076	0.004	No	17	0.002276	0.0006353	88.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-1R	0.0025	0.00019	0.004	No	17	0.002364	0.0005603	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-2	0.0025	0.00061	0.004	No	17	0.002119	0.0008528	82.35	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-3	0.0025	0.00018	0.004	No	17	0.002364	0.0005627	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-6R	0.0025	0.00036	0.004	No	17	0.002374	0.000519	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-7	0.0025	0.00025	0.004	No	17	0.002368	0.0005457	94.12	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-8	0.0025	0.00038	0.004	No	17	0.002246	0.0007175	88.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	APMW-9	0.0025	0.00049	0.004	No	17	0.002118	0.0008528	82.35	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-10	0.0025	0.00025	0.005	No	17	0.002368	0.0005457	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-1R	0.0025	0.00045	0.005	No	17	0.002379	0.0004972	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	APMW-6R	0.0025	0.00026	0.005	No	17	0.002229	0.0007641	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-1R	0.0032	0.002	0.1	No	15	0.00208	0.0003098	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-3	0.002	0.0014	0.1	No	15	0.00196	0.0001549	93.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-4	0.002184	0.001476	0.1	No	15	0.00202	0.0004296	40	Kaplan-Meier	No	0.01	Param.
Chromium (mg/L)	APMW-5	0.0024	0.0014	0.1	No	15	0.001853	0.0003357	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-7	0.0022	0.0014	0.1	No	15	0.001787	0.0003137	53.33	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	APMW-8	0.0032	0.0014	0.1	No	15	0.00204	0.0003562	86.67	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-10	0.0025	0.00033	0.006	No	17	0.00209	0.0009139	82.35	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-1R	0.0025	0.0004	0.006	No	17	0.001499	0.001098	52.94	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-3	0.003101	0.002417	0.006	No	17	0.002759	0.0005455	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-4	0.003731	0.003092	0.006	No	17	0.003412	0.0005098	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-5	0.0025	0.000079	0.006	No	17	0.002215	0.0008047	88.24	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-6R	0.003422	0.002108	0.006	No	17	0.002765	0.001049	0	None	No	0.01	Param.
Cobalt (mg/L)	APMW-7	0.0025	0.00025	0.006	No	17	0.001456	0.001142	52.94	None	No	0.01	NP (NDs)
Cobalt (mg/L)	APMW-9	0.0025	0.000089	0.006	No	17	0.002216	0.0008015	88.24	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	APMW-10	3.393	2.637	5.62	No	17	3.015	0.6031	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-1R	11.03	7.11	5.62	Yes	17	9.071	3.13	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-2	20.09	17.87	5.62	Yes	17	18.98	1.773	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-3	6.883	5.481	5.62	No	17	6.11	1.207	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-4	2.532	1.839	5.62	No	17	2.185	0.5534	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-5	4.537	3.641	5.62	No	17	4.089	0.7148	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-6R	3.299	2.761	5.62	No	17	2.913	0.7669	0	None	x^3	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-7	7.351	5.497	5.62	No	17	6.424	1.479	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-8	4.4	3.427	5.62	No	17	3.914	0.7759	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	APMW-9	8.11	6.71	5.62	Yes	17	7.428	0.8931	0	None	No	0.01	NP (normality)

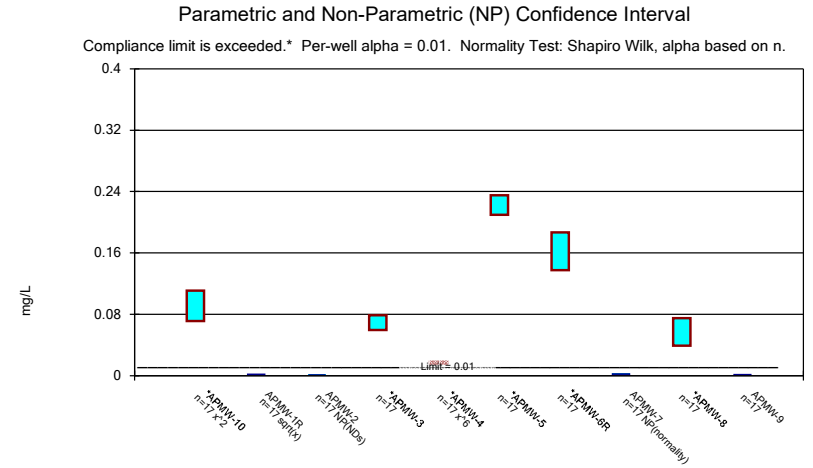
Confidence Intervals - All Results

Plant Watson Client: Southern Company Data: Plant Watson AP CCR Printed 6/2/2023, 11:33 AM

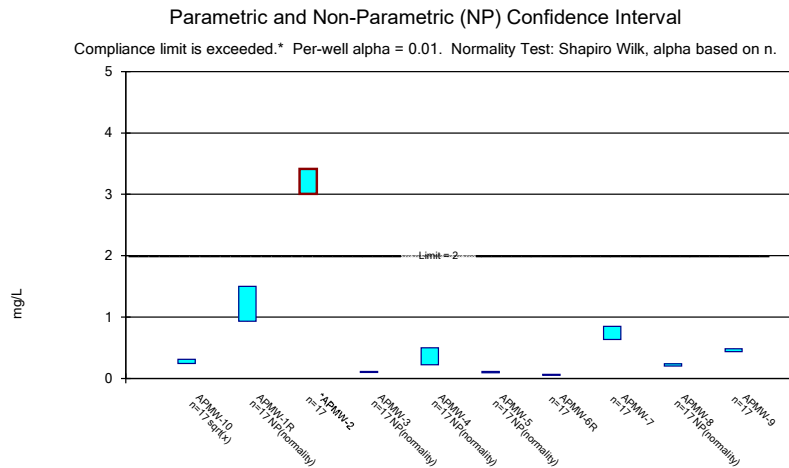
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	APMW-10	0.779	0.6232	4	No	18	0.7011	0.1287	0	None	No	0.01	Param.
Fluoride (mg/L)	APMW-1R	0.21	0.14	4	No	17	0.1845	0.04257	52.94	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-2	0.2	0.068	4	No	17	0.1328	0.06615	29.41	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-3	0.4666	0.248	4	No	18	0.4028	0.2156	27.78	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	APMW-4	0.5281	0.4439	4	No	18	0.4283	0.1544	11.11	None	x^6	0.01	Param.
Fluoride (mg/L)	APMW-5	0.2	0.09	4	No	17	0.1426	0.05707	47.06	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-6R	0.27	0.11	4	No	17	0.5771	1.501	64.71	None	No	0.01	NP (NDs)
Fluoride (mg/L)	APMW-7	0.26	0.12	4	No	18	0.3052	0.4112	16.67	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-8	1.1	0.73	4	No	18	1.732	3.566	0	None	No	0.01	NP (normality)
Fluoride (mg/L)	APMW-9	0.2	0.06	4	No	17	0.1724	0.1794	35.29	None	No	0.01	NP (normality)
Lead (mg/L)	APMW-10	0.0011	0.0006	0.015	No	17	0.0008853	0.0002859	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-2	0.001	0.00022	0.015	No	17	0.0009541	0.0001892	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-3	0.001	0.00048	0.015	No	17	0.0009359	0.0001812	88.24	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-4	0.001	0.00062	0.015	No	17	0.0009776	0.00009216	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-5	0.0011	0.00041	0.015	No	17	0.0009335	0.0002081	82.35	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-6R	0.001	0.00032	0.015	No	17	0.00096	0.0001649	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-7	0.0019	0.001	0.015	No	17	0.001053	0.0002183	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-8	0.0013	0.00075	0.015	No	17	0.001038	0.0001746	82.35	None	No	0.01	NP (NDs)
Lead (mg/L)	APMW-9	0.001	0.00039	0.015	No	17	0.0009129	0.00025	88.24	None	No	0.01	NP (NDs)
Lithium (mg/L)	APMW-10	0.01775	0.01038	0.04	No	17	0.01456	0.007111	0	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	APMW-1R	0.016	0.011	0.04	No	17	0.01441	0.004169	5.882	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-2	0.03064	0.02419	0.04	No	17	0.02741	0.005149	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-3	0.08432	0.06963	0.04	Yes	17	0.07697	0.01172	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-4	0.06089	0.04952	0.04	Yes	17	0.05565	0.009842	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	APMW-5	0.052	0.04	0.04	No	17	0.04782	0.009806	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-6R	0.05784	0.05269	0.04	Yes	17	0.05526	0.004116	0	None	No	0.01	Param.
Lithium (mg/L)	APMW-7	0.004345	0.002656	0.04	No	16	0.00415	0.001536	18.75	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	APMW-8	0.095	0.073	0.04	Yes	17	0.08785	0.02389	0	None	No	0.01	NP (normality)
Lithium (mg/L)	APMW-9	0.005339	0.003213	0.04	No	16	0.004694	0.00156	18.75	Kaplan-Meier	No	0.01	Param.
Mercury (mg/L)	APMW-10	0.0002	0.000085	0.002	No	15	0.0001923	0.00002969	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-1R	0.0002	0.00015	0.002	No	15	0.0001967	0.00001291	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-5	0.0002	0.000093	0.002	No	15	0.0001929	0.00002763	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-7	0.0002	0.00009	0.002	No	15	0.0001927	0.0000284	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-8	0.0002	0.000077	0.002	No	15	0.0001918	0.00003176	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	APMW-9	0.00035	0.0002	0.002	No	15	0.00021	0.00003873	93.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-10	0.11	0.043	0.1	No	17	0.07865	0.03036	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	APMW-2	0.015	0.00079	0.1	No	17	0.01416	0.003446	94.12	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-3	0.06996	0.06069	0.1	No	17	0.06532	0.007401	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-4	0.009538	0.006427	0.1	No	17	0.007982	0.002483	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-5	0.1037	0.0655	0.1	No	17	0.08459	0.03047	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-6R	0.4669	0.3837	0.1	Yes	17	0.4253	0.06634	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-7	0.015	0.0062	0.1	No	17	0.01153	0.004996	64.71	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	APMW-8	0.1428	0.07845	0.1	No	17	0.1106	0.05138	0	None	No	0.01	Param.
Molybdenum (mg/L)	APMW-9	0.015	0.00093	0.1	No	17	0.01334	0.004678	88.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-10	0.005	0.00061	0.05	No	17	0.004194	0.001795	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-2	0.005	0.00072	0.05	No	17	0.004218	0.001743	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-3	0.005	0.0011	0.05	No	17	0.003269	0.001909	52.94	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-4	0.005	0.00068	0.05	No	17	0.004211	0.001757	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-5	0.005	0.0016	0.05	No	17	0.00403	0.001815	76.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-7	0.005	0.00046	0.05	No	17	0.004189	0.001806	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-8	0.005	0.00076	0.05	No	17	0.003957	0.001939	76.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	APMW-9	0.005	0.0012	0.05	No	17	0.003982	0.001901	76.47	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-10	0.001	0.00068	0.002	No	17	0.0009065	0.0002308	82.35	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-1R	0.001	0.00019	0.002	No	17	0.0009524	0.0001965	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-2	0.001	0.00084	0.002	No	17	0.0009906	0.00003881	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-3	0.001	0.00012	0.002	No	17	0.0009482	0.0002134	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-8	0.0013	0.00025	0.002	No	17	0.0009247	0.000279	82.35	None	No	0.01	NP (NDs)
Thallium (mg/L)	APMW-9	0.0016	0.00024	0.002	No	17	0.0009906	0.0002419	88.24	None	No	0.01	NP (NDs)



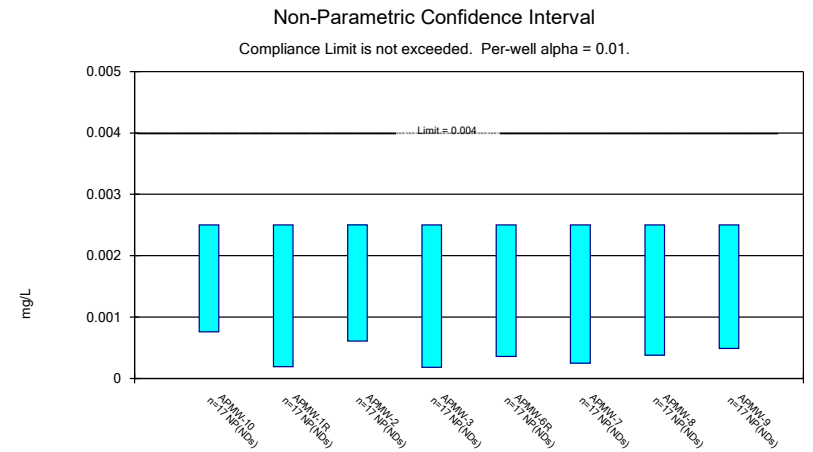
Constituent: Antimony Analysis Run 6/2/2023 11:31 AM View: Appendix IV - Confidence Intervals
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR



Constituent: Arsenic Analysis Run 6/2/2023 11:31 AM View: Appendix IV - Confidence Intervals
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR



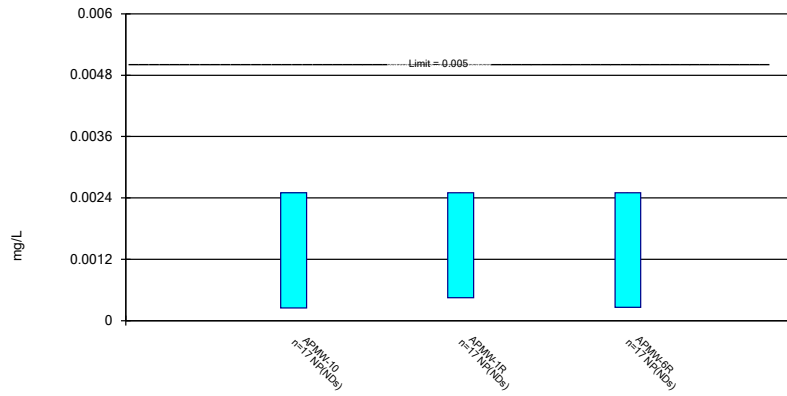
Constituent: Barium Analysis Run 6/2/2023 11:31 AM View: Appendix IV - Confidence Intervals
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR



Constituent: Beryllium Analysis Run 6/2/2023 11:31 AM View: Appendix IV - Confidence Intervals
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

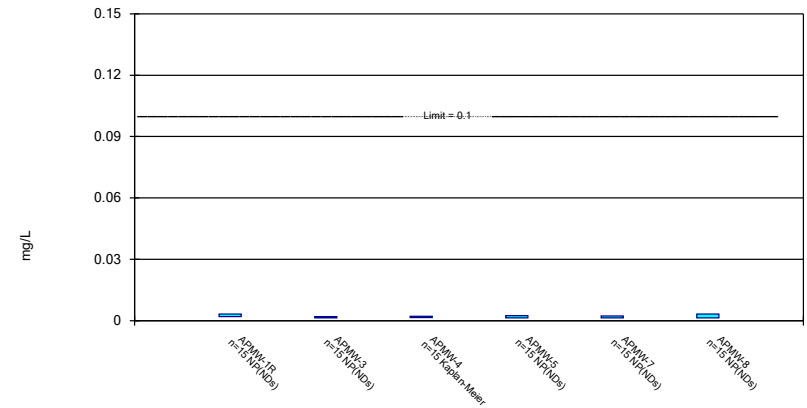
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 6/2/2023 11:31 AM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

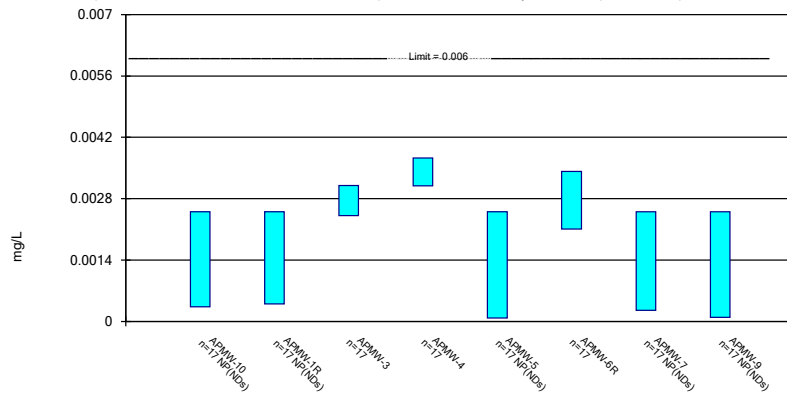
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 6/2/2023 11:31 AM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

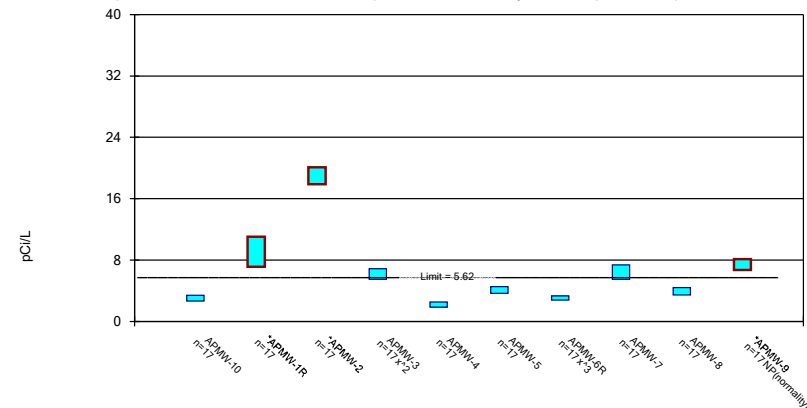
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/2/2023 11:31 AM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

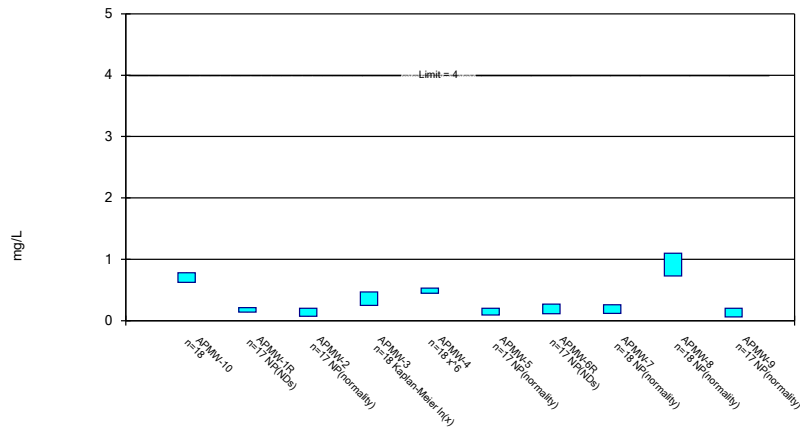
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/2/2023 11:31 AM View: Appendix IV - Confiden
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

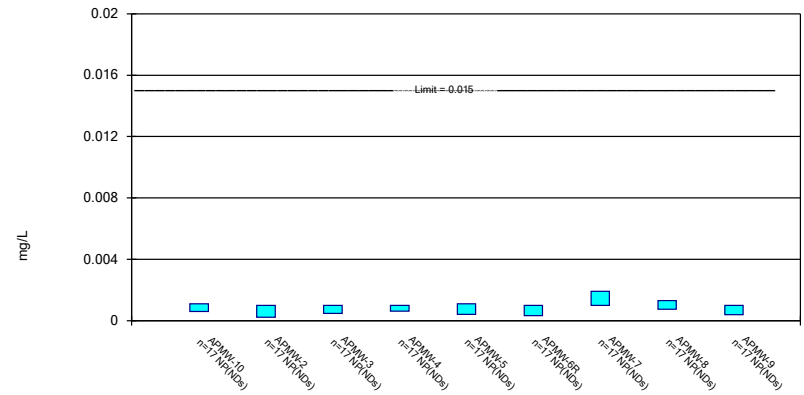
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 6/2/2023 11:31 AM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

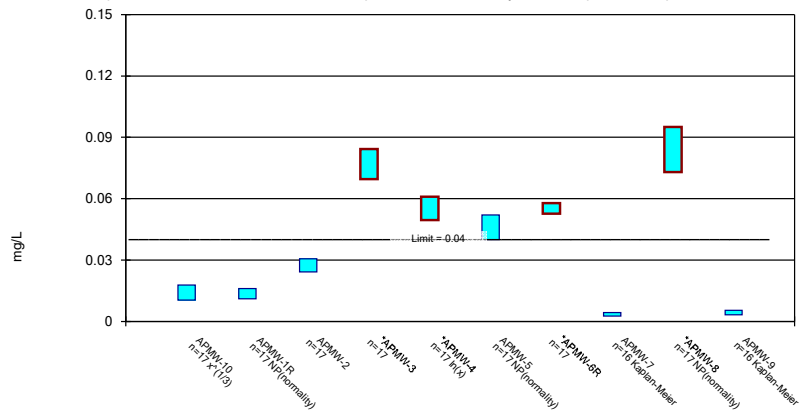
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 6/2/2023 11:32 AM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

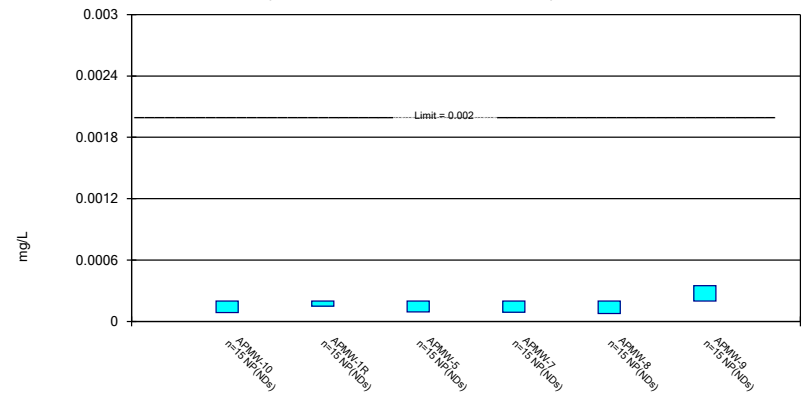
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/2/2023 11:32 AM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

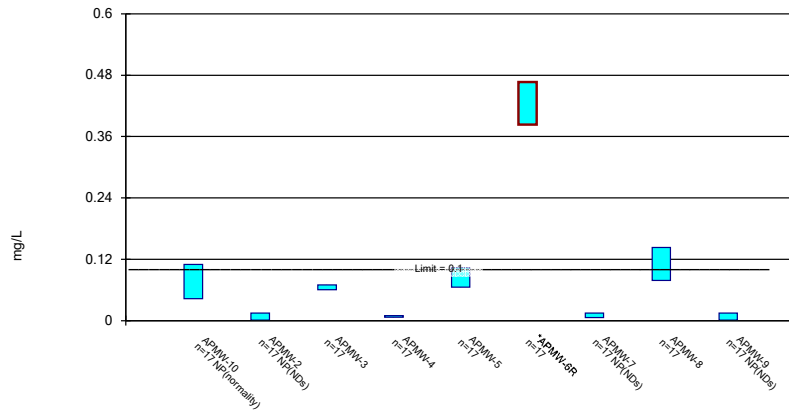
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 6/2/2023 11:32 AM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Parametric and Non-Parametric (NP) Confidence Interval

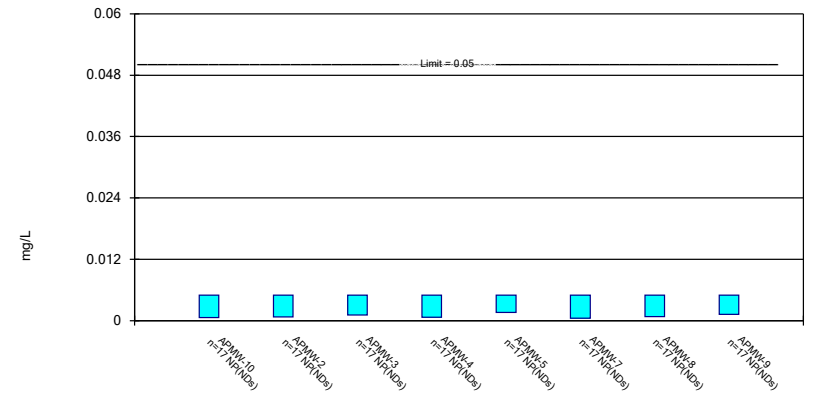
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 6/2/2023 11:32 AM View: Appendix IV - Confidence Intervals
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Non-Parametric Confidence Interval

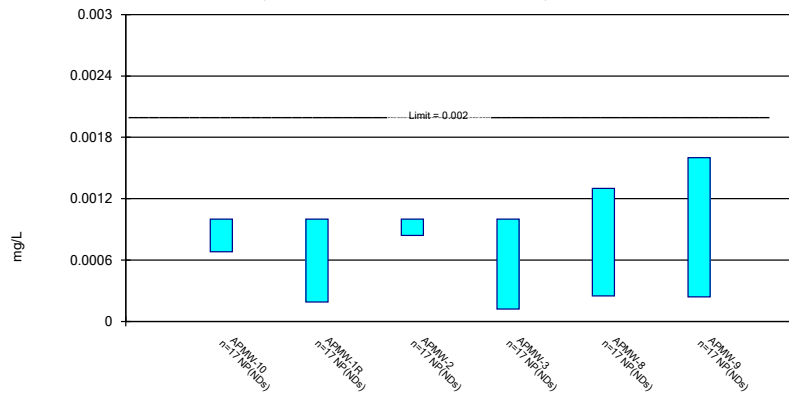
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 6/2/2023 11:32 AM 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 6/2/2023 11:32 AM View: Appendix IV - Confidence Intervals
 Plant Watson Client: Southern Company Data: Plant Watson AP CCR

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 6/2/2023 11:33 AM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-2	APMW-3	APMW-8
4/24/2018	<0.002	<0.002	
4/25/2018			<0.002
6/14/2018	<0.002	<0.002	<0.002
7/23/2018			<0.002
7/24/2018	<0.002	<0.002	
9/1/2018	<0.002	<0.002	
9/6/2018			<0.002
10/1/2018	<0.002	<0.002	
10/2/2018			<0.002
11/1/2018			<0.002
11/2/2018	<0.002	<0.002	
12/6/2018			<0.002
12/7/2018	<0.002	<0.002	
2/13/2019	<0.002	<0.002	<0.002
8/8/2019	0.0014 (J)	<0.002	
8/9/2019			<0.002
8/30/2019	<0.002	<0.002	<0.002
3/16/2020	<0.002	<0.002	
3/17/2020			<0.002
11/5/2020	<0.002	<0.002	
11/9/2020			<0.002
3/8/2021	<0.002		
3/9/2021		<0.002	<0.002
10/12/2021	<0.002		
10/21/2021		<0.002	<0.002
4/5/2022	<0.002	<0.002	
4/6/2022			0.00066 (J)
10/17/2022	<0.002		
10/18/2022		0.00059 (J)	<0.002
3/8/2023	<0.002	<0.002	
3/9/2023			<0.002
Mean	0.001965	0.001917	0.001921
Std. Dev.	0.0001455	0.000342	0.000325
Upper Lim.	0.002	0.002	0.002
Lower Lim.	0.0014	0.00059	0.00066

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/2/2023 11:33 AM 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	APMW-6R	APMW-7	APMW-8
4/24/2018			0.00077 (J)	0.084	0.019				
4/25/2018	0.13					0.24		0.0021	0.097
6/13/2018	0.11								
6/14/2018			<0.001	0.081	0.018	0.22		0.0015	0.089
7/23/2018	0.13								0.094
7/24/2018			<0.001	0.093	0.018	0.23		0.0015	
9/1/2018	0.12		<0.001	0.099	0.017	0.22			
9/6/2018								0.0013	0.082
10/1/2018			0.00094 (J)	0.077	0.017				
10/2/2018	0.11					0.21		0.0014	0.075
11/1/2018	0.11								0.081
11/2/2018			0.0012 (J)	0.067	0.018	0.26		0.0028	
12/6/2018	0.12				0.018	0.23		0.0033	0.079
12/7/2018			<0.001	0.063					
2/13/2019	0.098		<0.001	0.065	0.019	0.23		0.0012 (J)	0.077
3/16/2019		0.0021							
3/27/2019		0.0019							
4/3/2019		0.0019							
4/5/2019							0.13 (D)		
4/15/2019		0.0025					0.13		
5/2/2019		0.0019					0.089		
5/14/2019		0.0027					0.13		
5/28/2019		<0.001							
5/29/2019							0.12		
6/12/2019		0.0023					0.13		
6/19/2019							0.16		
6/25/2019							0.13		
8/8/2019	0.11	0.0012	0.00035 (J)	0.074					
8/9/2019					0.018	0.24	0.16	0.00053 (J)	0.052
8/30/2019	0.079	0.0011	<0.001	0.07	0.016	0.2	0.17	0.00044 (J)	0.05
3/16/2020		0.00085 (J)	<0.001	0.071	0.017				
3/17/2020	0.093					0.21	0.18	0.00053 (J)	0.043
11/4/2020		0.00069 (J)							
11/5/2020			<0.001	0.064					
11/9/2020					0.018	0.26			0.036
11/10/2020								0.00058 (J)	
11/20/2020	0.072						0.18		
3/8/2021	0.047	0.0005 (J)	<0.001						
3/9/2021				0.042	0.016	0.21	0.21	0.00045 (J)	0.035
10/12/2021	0.028	<0.001	<0.001			0.21		0.00044 (J)	
10/14/2021					0.012				
10/20/2021							0.2 (D)		
10/21/2021				0.0445 (D)					0.026 (D)
4/4/2022		0.0004 (J)							
4/5/2022	0.039		<0.001	0.047					
4/6/2022					0.011	0.21		0.00048 (J)	0.023
4/7/2022							0.21		
10/17/2022		0.00031 (J)	<0.001						
10/18/2022	0.037			0.061				0.00066 (J)	0.02
10/19/2022					0.0073	0.18	0.21		
3/8/2023		0.0004 (J)	<0.001	0.072	0.0075				
3/9/2023						0.22	0.22	0.00051 (J)	0.011

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/2/2023 11:33 AM 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	APMW-6R	APMW-7	APMW-8
3/13/2023	0.032								
Mean	0.08618	0.001279	0.0009565	0.06909	0.01569	0.2224	0.1623	0.00116	0.05706
Std. Dev.	0.03652	0.0008388	0.0001744	0.01562	0.003811	0.02047	0.03925	0.0008757	0.02872
Upper Lim.	0.1109	0.001711	0.0012	0.07888	0.01798	0.2352	0.1869	0.0021	0.07506
Lower Lim.	0.07115	0.0006871	0.00094	0.0593	0.01559	0.2095	0.1377	0.00048	0.03906

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/2/2023 11:33 AM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-9
4/24/2018	
4/25/2018	0.0016
6/13/2018	0.001 (J)
6/14/2018	
7/23/2018	0.0011 (J)
7/24/2018	
9/1/2018	
9/6/2018	0.0011 (J)
10/1/2018	
10/2/2018	0.0015
11/1/2018	0.0014
11/2/2018	
12/6/2018	0.0016
12/7/2018	
2/13/2019	0.0013
3/16/2019	
3/27/2019	
4/3/2019	
4/5/2019	
4/15/2019	
5/2/2019	
5/14/2019	
5/28/2019	
5/29/2019	
6/12/2019	
6/19/2019	
6/25/2019	
8/8/2019	0.0012
8/9/2019	
8/30/2019	0.0011
3/16/2020	
3/17/2020	0.001
11/4/2020	
11/5/2020	
11/9/2020	
11/10/2020	
11/20/2020	0.0012
3/8/2021	0.0015
3/9/2021	
10/12/2021	0.0013
10/14/2021	
10/20/2021	
10/21/2021	
4/4/2022	
4/5/2022	
4/6/2022	0.0013
4/7/2022	
10/17/2022	
10/18/2022	0.0014
10/19/2022	
3/8/2023	
3/9/2023	

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/2/2023 11:33 AM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-9
3/13/2023	0.0014
Mean	0.001294
Std. Dev.	0.0001952
Upper Lim.	0.001416
Lower Lim.	0.001172

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/2/2023 11:33 AM 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	APMW-6R	APMW-7	APMW-8
4/24/2018			2.8	0.097	0.46				
4/25/2018	0.26					0.093		0.66	0.2
6/13/2018	0.3								
6/14/2018			3.1	0.11	0.5	0.11		0.74	0.22
7/23/2018	0.24								0.2
7/24/2018			3	0.1	0.54	0.093		0.72	
9/1/2018	0.25		2.9	0.12	0.53	0.1			
9/6/2018								0.79	0.22
10/1/2018			4	0.1	0.5				
10/2/2018	0.23					0.1		0.93	0.21
11/1/2018	0.23								0.21
11/2/2018			3.1	0.1	0.5	0.12		1.1	
12/6/2018	0.24					0.43	0.1	0.7	0.22
12/7/2018			3.3	0.11					
2/13/2019	0.26		2.9	0.1	0.45	0.1		0.59	0.23
3/16/2019		0.89							
3/27/2019		1.1							
4/3/2019		1.1							
4/5/2019							0.071 (D)		
4/15/2019		0.98					0.067		
5/2/2019		0.94					0.071		
5/14/2019		1					0.068		
5/28/2019		1							
5/29/2019							0.067 (J)		
6/12/2019		0.91					0.064 (J)		
6/19/2019							0.059 (J)		
6/25/2019							0.057 (J)		
8/8/2019	0.24	0.93	3.2	0.1					
8/9/2019					0.33	0.11	0.058	0.76	0.2
8/30/2019	0.2	0.91	2.7	0.1	0.29	0.086	0.052	0.56	0.2
3/16/2020		1.2	3.2	0.1	0.27				
3/17/2020	0.25					0.1	0.05	0.53	0.21
11/4/2020		1.4							
11/5/2020			3.2	0.1					
11/9/2020					0.23	0.1			0.23
11/10/2020								0.77	
11/20/2020	0.27						0.048		
3/8/2021	0.32	1.3	3.3						
3/9/2021				0.1	0.22	0.1	0.055	0.53	0.22
10/12/2021	0.34	1.5	3.3			0.1		0.97	
10/14/2021					0.21				
10/20/2021							0.048		
10/21/2021				0.095					0.23
4/4/2022		1.6							
4/5/2022	0.37		3.6	0.098					
4/6/2022					0.17	0.11		0.61	0.24
4/7/2022							0.043 (J)		
10/17/2022		1.7	3.4						
10/18/2022	0.37			0.096				0.97	0.24
10/19/2022					0.23	0.1	0.044		
3/8/2023		1.8	3.6	0.11	0.17				
3/9/2023						0.11	0.046	0.65	0.3

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/2/2023 11:33 AM 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	APMW-6R	APMW-7	APMW-8
3/13/2023	0.38								
Mean	0.2794	1.192	3.212	0.1021	0.3547	0.1019	0.05694	0.74	0.2224
Std. Dev.	0.05629	0.3023	0.3238	0.006508	0.138	0.008038	0.00966	0.168	0.02412
Upper Lim.	0.3123	1.5	3.415	0.11	0.5	0.11	0.06299	0.8453	0.24
Lower Lim.	0.2436	0.93	3.009	0.098	0.22	0.093	0.05089	0.6347	0.2

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/2/2023 11:33 AM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-9
4/24/2018	
4/25/2018	0.42
6/13/2018	0.45
6/14/2018	
7/23/2018	0.42
7/24/2018	
9/1/2018	
9/6/2018	0.45
10/1/2018	
10/2/2018	0.43
11/1/2018	0.43
11/2/2018	
12/6/2018	0.44
12/7/2018	
2/13/2019	0.44
3/16/2019	
3/27/2019	
4/3/2019	
4/5/2019	
4/15/2019	
5/2/2019	
5/14/2019	
5/28/2019	
5/29/2019	
6/12/2019	
6/19/2019	
6/25/2019	
8/8/2019	0.42
8/9/2019	
8/30/2019	0.42
3/16/2020	
3/17/2020	0.49
11/4/2020	
11/5/2020	
11/9/2020	
11/10/2020	
11/20/2020	0.48
3/8/2021	0.47
3/9/2021	
10/12/2021	0.49
10/14/2021	
10/20/2021	
10/21/2021	
4/4/2022	
4/5/2022	
4/6/2022	0.52
4/7/2022	
10/17/2022	
10/18/2022	0.5
10/19/2022	
3/8/2023	
3/9/2023	

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/2/2023 11:33 AM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-9
3/13/2023	0.55
Mean	0.46
Std. Dev.	0.03937
Upper Lim.	0.4847
Lower Lim.	0.4353

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 6/2/2023 11:33 AM 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	APMW-8	APMW-9
4/24/2018			<0.0025	<0.0025				
4/25/2018	<0.0025					<0.0025	<0.0025	<0.0025
6/13/2018	<0.0025							<0.0025
6/14/2018			<0.0025	<0.0025		<0.0025	<0.0025	
7/23/2018	<0.0025						<0.0025	<0.0025
7/24/2018			<0.0025	<0.0025		<0.0025		
9/1/2018	<0.0025		<0.0025	<0.0025				
9/6/2018						<0.0025	<0.0025	<0.0025
10/1/2018			<0.0025	<0.0025				
10/2/2018	<0.0025					<0.0025	<0.0025	<0.0025
11/1/2018	<0.0025						<0.0025	<0.0025
11/2/2018			<0.0025	<0.0025		<0.0025		
12/6/2018	<0.0025					<0.0025	<0.0025	<0.0025
12/7/2018			<0.0025	<0.0025				
2/13/2019	<0.0025		<0.0025	<0.0025		<0.0025	<0.0025	<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		<0.0025			<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	0.00061 (J)	<0.0025				<0.0025
8/9/2019					<0.0025	<0.0025	<0.0025	
8/30/2019	0.00043 (J)	0.00019 (J)	0.00023 (J)	0.00018 (J)	0.00036 (J)	0.00025 (J)	0.00038 (J)	0.00049 (J)
3/16/2020		<0.0025	<0.0025	<0.0025				
3/17/2020	<0.0025				<0.0025	<0.0025	<0.0025	<0.0025
11/4/2020		<0.0025						
11/5/2020			<0.0025	<0.0025				
11/9/2020							<0.0025	
11/10/2020						<0.0025		
11/20/2020	<0.0025				<0.0025			<0.0025
3/8/2021	0.00076 (J)	<0.0025	0.00018 (J)					0.00024 (J)
3/9/2021				<0.0025	<0.0025	<0.0025	<0.0025	
10/12/2021	<0.0025	<0.0025	<0.0025			<0.0025		<0.0025
10/20/2021					<0.0025			
10/21/2021				<0.0025			<0.0025	
4/4/2022		<0.0025						
4/5/2022	<0.0025		<0.0025	<0.0025				
4/6/2022						<0.0025	<0.0025	<0.0025
4/7/2022					<0.0025			
10/17/2022		<0.0025	<0.0025					
10/18/2022	<0.0025			<0.0025		<0.0025	<0.0025	<0.0025
10/19/2022					<0.0025			
3/8/2023		<0.0025	<0.0025	<0.0025				
3/9/2023					<0.0025	<0.0025	0.0003 (J)	
3/13/2023	<0.0025							0.00027 (J)

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 6/2/2023 11:33 AM 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	APMW-8	APMW-9
Mean	0.002276	0.002364	0.002119	0.002364	0.002374	0.002368	0.002246	0.002118
Std. Dev.	0.0006353	0.0005603	0.0008528	0.0005627	0.000519	0.0005457	0.0007175	0.0008528
Upper Lim.	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Lower Lim.	0.00076	0.00019	0.00061	0.00018	0.00036	0.00025	0.00038	0.00049

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 6/2/2023 11:33 AM 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
10/17/2022		<0.0025	
10/18/2022	<0.0025		
10/19/2022			<0.0025
3/8/2023		<0.0025	
3/9/2023			<0.0025
3/13/2023	<0.0025		
Mean	0.002368	0.002379	0.002229
Std. Dev.	0.0005457	0.0004972	0.0007641
Upper Lim.	0.0025	0.0025	0.0025
Lower Lim.	0.00025	0.00045	0.00026

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 6/2/2023 11:33 AM 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
10/17/2022	<0.002					
10/18/2022		<0.002			<0.002	<0.002
10/19/2022			0.0021	<0.002		
3/8/2023	<0.002	<0.002	<0.002			
3/9/2023				<0.002	<0.002	<0.002
Mean	0.00208	0.00196	0.00202	0.001853	0.001787	0.00204
Std. Dev.	0.0003098	0.0001549	0.0004296	0.0003357	0.0003137	0.0003562
Upper Lim.	0.0032	0.002	0.002184	0.0024	0.0022	0.0032
Lower Lim.	0.002	0.0014	0.001476	0.0014	0.0014	0.0014

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/2/2023 11:33 AM 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	APMW-7	APMW-9
4/24/2018			0.0026	0.0033				
4/25/2018	<0.0025				<0.0025		<0.0025	<0.0025
6/13/2018	<0.0025							<0.0025
6/14/2018			0.0023 (J)	0.0032	<0.0025		<0.0025	
7/23/2018	<0.0025							<0.0025
7/24/2018			0.0026	0.0036	<0.0025		<0.0025	
9/1/2018	<0.0025		0.0023 (J)	0.0039	<0.0025			
9/6/2018							0.00043 (J)	<0.0025
10/1/2018			0.0028	0.0029				
10/2/2018	<0.0025				<0.0025		<0.0025	<0.0025
11/1/2018	<0.0025							<0.0025
11/2/2018			0.0027	0.0034	<0.0025		<0.0025	
12/6/2018	<0.0025			0.0032	<0.0025		<0.0025	<0.0025
12/7/2018			0.0028					
2/13/2019	<0.0025		0.0028	0.0043	<0.0025		<0.0025	<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					8.4E-05 (J)
8/9/2019				0.0034	7.5E-05 (J)	0.0022	0.00025 (J)	
8/30/2019	8.2E-05 (J)	0.00017 (J)	0.0025	0.0034	7.9E-05 (J)	0.0039	0.00023 (J)	8.9E-05 (J)
3/16/2020		<0.0025	0.0022	0.0039				
3/17/2020	<0.0025				<0.0025	0.0029	0.00024 (J)	<0.0025
11/4/2020		<0.0025						
11/5/2020			0.003					
11/9/2020				0.0037	<0.0025			
11/10/2020							0.00024 (J)	
11/20/2020	<0.0025					0.0024 (J)		<0.0025
3/8/2021	0.00033 (J)	<0.0025						<0.0025
3/9/2021			0.0034	0.0041	<0.0025	0.0017 (J)	0.00025 (J)	
10/12/2021	<0.0025	<0.0025			<0.0025		0.00028 (J)	<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		<0.0025	<0.0025
4/7/2022						0.0028		
10/17/2022		<0.0025						
10/18/2022	<0.0025		0.003				0.00033 (J)	<0.0025
10/19/2022				0.0021 (J)	<0.0025	0.0028		
3/8/2023		<0.0025	0.0023 (J)	0.003				
3/9/2023					<0.0025	0.0025	<0.0025	

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/2/2023 11:33 AM 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	APMW-7	APMW-9
3/13/2023	<0.0025							<0.0025
Mean	0.00209	0.001499	0.002759	0.003412	0.002215	0.002765	0.001456	0.002216
Std. Dev.	0.0009139	0.001098	0.0005455	0.0005098	0.0008047	0.001049	0.001142	0.0008015
Upper Lim.	0.0025	0.0025	0.003101	0.003731	0.0025	0.003422	0.0025	0.0025
Lower Lim.	0.00033	0.0004	0.002417	0.003092	7.9E-05	0.002108	0.00025	8.9E-05

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/2/2023 11:33 AM 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	APMW-6R	APMW-7	APMW-8
4/24/2018			21.8	5.84	2.4				
4/25/2018	2.66					3.67		5.8	3.26
6/13/2018	2.91								
6/14/2018			20.9	6.37	2.5	4.18		5.94	3.41
7/23/2018	3.49								4.02
7/24/2018			19.2	7.22	3.01	4.95		6.56	
9/1/2018	3.15		17.5	5.46	2.3	4.44			
9/6/2018								7.39	3.86
10/1/2018			19.9	8.54	3.49				
10/2/2018	3.38					4.79		8.19	4.63
11/1/2018	2.19								3.37
11/2/2018			17.4	6.02	1.94	4		5.87	
12/6/2018	2.69					2.68		6.64	3.92
12/7/2018			18.5	6.26					
2/13/2019	2.97		19.2	6.67	2.05	4.53		6.19	3.66
3/16/2019		5.87							
3/27/2019		6.56							
4/3/2019		7.03							
4/5/2019							2.85		
4/15/2019		6.75					3.24		
5/2/2019		6.82					3		
5/14/2019		6.96					3.2		
5/28/2019		4.12							
5/29/2019							2.88		
6/12/2019		8.8					3.04		
6/19/2019							3.59		
6/25/2019							3.61		
8/8/2019	2.16	7.52	18.7	6.41					
8/9/2019					2.09	3.81	3.14	6.86	3.52
8/30/2019	2.19	7.98	16.5	5.45	1.24	2.82	2.52	6.63	3.96
3/16/2020		10.6	18.8	6.5	1.71				
3/17/2020	2.94					4.23	3.16	5.37	3.43
11/4/2020		8.99							
11/5/2020			15.3	5.33					
11/9/2020					2	3.42			2.55
11/10/2020								6.91	
11/20/2020	3.47						3.32		
3/8/2021	2.86	14.2	21.4						
3/9/2021				2.68	2.08	4.01	0.234 (U)	2.66	3.52
10/12/2021	3.57	12	20.6			3.74		7.77	
10/14/2021					2.56				
10/20/2021							2.8		
10/21/2021				5.6					4.05
4/4/2022		12.5							
4/5/2022	3.1		17.4	7.45					
4/6/2022					1.71	5.09		6.15	4.27
4/7/2022							3.12		
10/17/2022		14	19.1						
10/18/2022	4.61			6.3				9.51	5.83
10/19/2022					1.61	4.24	3.45		
3/8/2023		13.5	20.4	5.77	1.78				
3/9/2023						2.58	2.37	4.77	5.27

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/2/2023 11:33 AM 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	APMW-6R	APMW-7	APMW-8
3/13/2023	2.92								
Mean	3.015	9.071	18.98	6.11	2.185	4.089	2.913	6.424	3.914
Std. Dev.	0.6031	3.13	1.773	1.207	0.5534	0.7148	0.7669	1.479	0.7759
Upper Lim.	3.393	11.03	20.09	6.883	2.532	4.537	3.299	7.351	4.4
Lower Lim.	2.637	7.11	17.87	5.481	1.839	3.641	2.761	5.497	3.427

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/2/2023 11:33 AM View: Appendix IV - Confidence Intervals

Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-9
4/24/2018	
4/25/2018	6.49
6/13/2018	6.43
6/14/2018	
7/23/2018	6.82
7/24/2018	
9/1/2018	
9/6/2018	7.4
10/1/2018	
10/2/2018	7.43
11/1/2018	6.67
11/2/2018	
12/6/2018	6.92
12/7/2018	
2/13/2019	6.91
3/16/2019	
3/27/2019	
4/3/2019	
4/5/2019	
4/15/2019	
5/2/2019	
5/14/2019	
5/28/2019	
5/29/2019	
6/12/2019	
6/19/2019	
6/25/2019	
8/8/2019	6.71
8/9/2019	
8/30/2019	7.32
3/16/2020	
3/17/2020	7.36
11/4/2020	
11/5/2020	
11/9/2020	
11/10/2020	
11/20/2020	8.11
3/8/2021	9.26
3/9/2021	
10/12/2021	8.92
10/14/2021	
10/20/2021	
10/21/2021	
4/4/2022	
4/5/2022	
4/6/2022	6.93
4/7/2022	
10/17/2022	
10/18/2022	9.03
10/19/2022	
3/8/2023	
3/9/2023	

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/2/2023 11:33 AM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-9
3/13/2023	7.57
Mean	7.428
Std. Dev.	0.8931
Upper Lim.	8.11
Lower Lim.	6.71

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 6/2/2023 11:33 AM 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	APMW-6R	APMW-7	APMW-8
4/24/2018			0.06 (J)	0.33	0.52				
4/25/2018	0.69					0.09 (J)		0.11	1
6/13/2018	0.64								
6/14/2018			0.06 (J)	0.37	0.51	0.09 (J)		0.12	1
7/23/2018	0.76								1
7/24/2018			0.07 (J)	0.42	0.52	0.09 (J)		0.12	
9/1/2018	0.81		0.08 (J)	0.45	0.54	0.1			
9/6/2018								0.13	1.1
10/1/2018			0.07 (J)	0.39	0.54				
10/2/2018	0.78					0.09 (J)		0.13	1
11/1/2018	0.88								1.1
11/2/2018			0.08 (J)	0.42	0.58	0.11		0.14	
12/6/2018	0.75				0.51	1.4 (o)		0.13	0.98
12/7/2018			4.3 (o)	0.64					
2/13/2019	0.72		0.05 (J)	0.35	0.48	0.07 (J)		0.1	0.98
3/16/2019		<0.2							
3/27/2019		<0.2							
4/3/2019		<0.2							
4/4/2019	0.63					<0.2		<0.2	0.58 (J)
4/5/2019			0.14 (J)	0.7 (J)	0.31 (J)		<0.2 (D)		
4/15/2019		0.14 (J)					<0.2		
5/2/2019		0.13 (J)					<0.2		
5/14/2019		<0.2					<0.2		
5/28/2019		0.16 (J)							
5/29/2019							<0.2		
6/12/2019		<0.2					<0.2		
6/19/2019							<0.2		
6/25/2019							0.32 (J)		
8/8/2019	0.58	0.21 (J)	0.19 (J)	0.8 (J)					
8/9/2019					0.51	<0.2	<0.2	0.22 (J)	0.9 (J)
8/30/2019	0.5	0.21 (J)	0.17 (J)	<0.2	0.54 (J)	<0.2	0.27 (J)	0.41 (J)	0.85 (J)
3/16/2020		<0.2	<0.2	<0.2	<0.2				
3/17/2020	0.38					<0.2	<0.2	1.6	0.52 (J)
11/4/2020		<0.2							
11/5/2020			<0.2	<0.2					
11/9/2020					<0.2	<0.2			0.74 (J)
11/10/2020								<0.2	
11/20/2020	0.81						<0.2		
3/8/2021	0.66	<0.2	<0.2						
3/9/2021				0.87 (J)	0.55 (J)	<0.2	<0.2	0.26 (J)	1.1 (J)
10/12/2021	0.66	0.27 (J)	0.22 (J)			<0.2		<0.2	
10/14/2021					0.5 (J)				
10/20/2021							0.29 (J)		
10/21/2021				<0.2					1 (J)
4/4/2022		0.13 (J)							
4/5/2022	0.82		<0.2	<0.2					
4/6/2022					0.36 (J)	<0.2		1.2 (J)	16
4/7/2022							6.4		
10/17/2022		<0.2	<0.2						
10/18/2022	0.68			0.32 (J)				0.084 (J)	0.73
10/19/2022					0.29	0.065 (J)	0.22		
3/8/2023		0.086 (J)	0.068 (J)	0.19 (J)	0.25				

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 6/2/2023 11:33 AM 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	APMW-6R	APMW-7	APMW-8
3/9/2023						0.12 (J)	0.11 (J)	0.14 (J)	0.59
3/13/2023	0.87								
Mean	0.7011	0.1845	0.1328	0.4028	0.4283	0.1426	0.5771	0.3052	1.732
Std. Dev.	0.1287	0.04257	0.06615	0.2156	0.1544	0.05707	1.501	0.4112	3.566
Upper Lim.	0.779	0.21	0.2	0.4666	0.5281	0.2	0.27	0.26	1.1
Lower Lim.	0.6232	0.14	0.068	0.248	0.4439	0.09	0.11	0.12	0.73

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 6/2/2023 11:33 AM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-9
4/24/2018	
4/25/2018	0.06 (J)
6/13/2018	0.06 (J)
6/14/2018	
7/23/2018	0.06 (J)
7/24/2018	
9/1/2018	
9/6/2018	0.06 (J)
10/1/2018	
10/2/2018	0.07 (J)
11/1/2018	0.07 (J)
11/2/2018	
12/6/2018	0.21 (o)
12/7/2018	
2/13/2019	0.07 (J)
3/16/2019	
3/27/2019	
4/3/2019	
4/4/2019	<0.2
4/5/2019	
4/15/2019	
5/2/2019	
5/14/2019	
5/28/2019	
5/29/2019	
6/12/2019	
6/19/2019	
6/25/2019	
8/8/2019	0.2 (J)
8/9/2019	
8/30/2019	0.18 (J)
3/16/2020	
3/17/2020	<0.2
11/4/2020	
11/5/2020	
11/9/2020	
11/10/2020	
11/20/2020	<0.2
3/8/2021	<0.2
3/9/2021	
10/12/2021	<0.2
10/14/2021	
10/20/2021	
10/21/2021	
4/4/2022	
4/5/2022	
4/6/2022	0.82 (J)
4/7/2022	
10/17/2022	
10/18/2022	<0.2
10/19/2022	
3/8/2023	

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 6/2/2023 11:33 AM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-9
3/9/2023	
3/13/2023	0.081 (J)
Mean	0.1724
Std. Dev.	0.1794
Upper Lim.	0.2
Lower Lim.	0.06

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 6/2/2023 11:33 AM 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	APMW-7	APMW-8	APMW-9
4/24/2018		<0.001	<0.001	<0.001	<0.001				
4/25/2018	<0.001				<0.001		<0.001	<0.001	<0.001
6/13/2018	<0.001								<0.001
6/14/2018		<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	
7/23/2018	<0.001							<0.001	<0.001
7/24/2018		<0.001	<0.001	<0.001	<0.001		<0.001		
9/1/2018	<0.001	<0.001	<0.001	<0.001	<0.001				
9/6/2018							<0.001	<0.001	<0.001
10/1/2018		<0.001	<0.001	<0.001					
10/2/2018	<0.001				<0.001		<0.001	<0.001	<0.001
11/1/2018	0.0011 (J)							0.0016	<0.001
11/2/2018		<0.001	0.00048 (J)	0.00062 (J)	0.0011 (J)		0.0019		
12/6/2018	0.0006 (J)			<0.001	0.00041 (J)		<0.001	0.0013	0.00039 (J)
12/7/2018		<0.001	<0.001						
2/13/2019	<0.001	<0.001	<0.001	<0.001	0.00036 (J)		<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	<0.001	<0.001						0.00013 (J)
8/9/2019				<0.001	<0.001	<0.001	<0.001	<0.001	
8/30/2019	<0.001	<0.001	<0.001	<0.001	<0.001	0.00032 (J)	<0.001	<0.001	<0.001
3/16/2020		<0.001	<0.001	<0.001					
3/17/2020	<0.001				<0.001	<0.001	<0.001	<0.001	<0.001
11/5/2020		<0.001	<0.001						
11/9/2020				<0.001	<0.001			<0.001	
11/10/2020							<0.001		
11/20/2020	<0.001					<0.001			<0.001
3/8/2021	0.00016 (J)	<0.001							<0.001
3/9/2021			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
10/12/2021	<0.001	<0.001			<0.001		<0.001		<0.001
10/14/2021				<0.001					
10/20/2021						<0.001			
10/21/2021			<0.001					<0.001	
4/5/2022	0.00019 (J)	0.00022 (J)	0.00043 (J)						
4/6/2022				<0.001	<0.001		<0.001	<0.001	<0.001
4/7/2022						<0.001			
10/17/2022		<0.001							
10/18/2022	<0.001		<0.001				<0.001	<0.001	<0.001
10/19/2022				<0.001	<0.001	<0.001			
3/8/2023		<0.001	<0.001	<0.001					
3/9/2023					<0.001	<0.001	<0.001	0.00075 (J)	
3/13/2023	<0.001								<0.001
Mean	0.0008853	0.0009541	0.0009359	0.0009776	0.0009335	0.00096	0.001053	0.001038	0.0009129
Std. Dev.	0.0002859	0.0001892	0.0001812	9.216E-05	0.0002081	0.0001649	0.0002183	0.0001746	0.00025
Upper Lim.	0.0011	0.001	0.001	0.001	0.0011	0.001	0.0019	0.0013	0.001
Lower Lim.	0.0006	0.00022	0.00048	0.00062	0.00041	0.00032	0.001	0.00075	0.00039

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/2/2023 11:33 AM 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	APMW-6R	APMW-7	APMW-8
4/24/2018			0.029	0.11	0.079				
4/25/2018	0.021					0.069		0.004 (J)	0.13
6/13/2018	0.013								
6/14/2018			0.023	0.073	0.055	0.046		0.0026 (J)	0.085
7/23/2018	0.015								0.09
7/24/2018			0.023	0.079	0.057	0.049		0.003 (J)	
9/1/2018	0.015		0.022	0.088	0.054	0.045			
9/6/2018								0.0029 (J)	0.099
10/1/2018			0.026	0.091	0.063				
10/2/2018	0.017					0.052		0.0021 (J)	0.095
11/1/2018	0.038								0.16
11/2/2018			0.024 (J)	0.081	0.077	0.074		0.014 (o)	
12/6/2018	0.011				0.054	0.044		<0.005	0.082
12/7/2018			0.022	0.072					
2/13/2019	0.012		0.02	0.071	0.053	0.045		0.0018 (J)	0.08
3/16/2019		0.013							
3/27/2019		0.014							
4/3/2019		0.01							
4/5/2019							0.051 (D)		
4/15/2019		0.012					0.054		
5/2/2019		0.013					0.055		
5/14/2019		0.011					0.047		
5/28/2019		<0.05							
5/29/2019							0.055		
6/12/2019		0.012					0.062		
6/19/2019							0.059		
6/25/2019							0.052		
8/8/2019	0.018	0.012	0.031	0.076					
8/9/2019					0.061	0.049	0.063	<0.005	0.086
8/30/2019	0.01	0.011	0.022	0.072	0.052	0.044	0.059	<0.005	0.068
3/16/2020		0.013	0.03	0.07	0.053				
3/17/2020	0.017					0.044	0.056	0.0071	0.08
11/4/2020		0.014							
11/5/2020			0.031	0.07					
11/9/2020					0.049	0.044			0.08
11/10/2020								0.0048 (J)	
11/20/2020	0.013						0.055		
3/8/2021	0.01	0.013	0.03						
3/9/2021				0.075	0.051	0.048	0.057	0.004 (J)	0.073
10/12/2021	0.0056	0.014	0.028			0.039		0.0036 (J)	
10/14/2021					0.052				
10/20/2021							0.0535 (D)		
10/21/2021				0.0665 (D)					0.0735 (D)
4/4/2022		0.023 (J)							
4/5/2022	0.012		0.037	0.081					
4/6/2022					0.046	0.046		0.0043 (J)	0.075
4/7/2022							0.057		
10/17/2022		0.016	0.032						
10/18/2022	0.01			0.056				0.0041 (J)	0.07
10/19/2022					0.049	0.035	0.05		
3/8/2023		0.019	0.036	0.077	0.041				
3/9/2023						0.04	0.054	0.0071	0.067

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/2/2023 11:33 AM 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	APMW-6R	APMW-7	APMW-8
3/13/2023	0.01								
Mean	0.01456	0.01441	0.02741	0.07697	0.05565	0.04782	0.05526	0.00415	0.08785
Std. Dev.	0.007111	0.004169	0.005149	0.01172	0.009842	0.009806	0.004116	0.001536	0.02389
Upper Lim.	0.01775	0.016	0.03064	0.08432	0.06089	0.052	0.05784	0.004345	0.095
Lower Lim.	0.01038	0.011	0.02419	0.06963	0.04952	0.04	0.05269	0.002656	0.073

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/2/2023 11:33 AM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-9
4/24/2018	
4/25/2018	0.0039 (J)
6/13/2018	0.0027 (J)
6/14/2018	
7/23/2018	0.0041 (J)
7/24/2018	
9/1/2018	
9/6/2018	0.0035 (J)
10/1/2018	
10/2/2018	0.004 (J)
11/1/2018	0.018 (o)
11/2/2018	
12/6/2018	<0.005
12/7/2018	
2/13/2019	0.0026 (J)
3/16/2019	
3/27/2019	
4/3/2019	
4/5/2019	
4/15/2019	
5/2/2019	
5/14/2019	
5/28/2019	
5/29/2019	
6/12/2019	
6/19/2019	
6/25/2019	
8/8/2019	0.0053
8/9/2019	
8/30/2019	<0.005
3/16/2020	
3/17/2020	0.0077
11/4/2020	
11/5/2020	
11/9/2020	
11/10/2020	
11/20/2020	0.0035 (J)
3/8/2021	0.0045 (J)
3/9/2021	
10/12/2021	<0.005
10/14/2021	
10/20/2021	
10/21/2021	
4/4/2022	
4/5/2022	
4/6/2022	0.0084
4/7/2022	
10/17/2022	
10/18/2022	0.0046 (J)
10/19/2022	
3/8/2023	
3/9/2023	

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/2/2023 11:33 AM View: Appendix IV - Confidence Intervals
Plant Watson Client: Southern Company Data: Plant Watson AP CCR

	APMW-9
3/13/2023	0.0053
Mean	0.004694
Std. Dev.	0.00156
Upper Lim.	0.005339
Lower Lim.	0.003213

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 6/2/2023 11:33 AM 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
10/17/2022		<0.0002				
10/18/2022	<0.0002			<0.0002	<0.0002	<0.0002
10/19/2022			<0.0002			
3/8/2023		<0.0002				
3/9/2023			<0.0002	<0.0002	<0.0002	
3/13/2023	<0.0002					<0.0002
Mean	0.0001923	0.0001967	0.0001929	0.0001927	0.0001918	0.00021
Std. Dev.	2.969E-05	1.291E-05	2.763E-05	2.84E-05	3.176E-05	3.873E-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 6/2/2023 11:33 AM 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	APMW-7	APMW-8	APMW-9
4/24/2018		<0.015	0.073	0.011 (J)					
4/25/2018	0.11				0.056		0.00096 (J)	0.18	<0.015
6/13/2018	0.09								<0.015
6/14/2018		<0.015	0.068	0.0083 (J)	0.048		0.0062 (J)	0.17	
7/23/2018	0.11							0.17	<0.015
7/24/2018		<0.015	0.065	0.0075 (J)	0.078		0.0063 (J)		
9/1/2018	0.11	<0.015	0.05	0.0082 (J)	0.081				
9/6/2018							<0.015	0.15	<0.015
10/1/2018		<0.015	0.061	0.0088 (J)					
10/2/2018	0.1				0.07		<0.015	0.15	0.0009 (J)
11/1/2018	0.11							0.16	<0.015
11/2/2018		<0.015	0.062	0.0083 (J)	0.1		0.0066 (J)		
12/6/2018	0.1			0.0093 (J)	0.069		0.0062 (J)	0.14	<0.015
12/7/2018		<0.015	0.062						
2/13/2019	0.085	<0.015	0.061	0.0093 (J)	0.1		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	0.11	0.00079 (J)	0.073						<0.015
8/9/2019				0.012	0.15	0.48	<0.015	0.12	
8/30/2019	0.078	<0.015	0.065	0.011	0.088	0.42	<0.015	0.11	0.00093 (J)
3/16/2020		<0.015	0.072	0.01					
3/17/2020	0.081				0.079	0.47	<0.015	0.094	<0.015
11/5/2020		<0.015	0.067						
11/9/2020				0.0084 (J)	0.11			0.072	
11/10/2020							<0.015		
11/20/2020	0.059					0.42			<0.015
3/8/2021	0.055	<0.015							<0.015
3/9/2021			0.076	0.0059 (J)	0.072	0.48	<0.015	0.069	
10/12/2021	0.033	<0.015			0.074		<0.015		<0.015
10/14/2021				0.0042 (J)					
10/20/2021						0.45 (D)			
10/21/2021			0.0705 (D)					0.056 (D)	
4/5/2022	0.043	<0.015	0.071						
4/6/2022				0.005 (J)	0.074		<0.015	0.053	<0.015
4/7/2022						0.5			
10/17/2022		<0.015							
10/18/2022	0.03		0.05				<0.015	0.039	<0.015
10/19/2022				0.0043 (J)	0.039	0.44			
3/8/2023		<0.015	0.064	0.0042 (J)					
3/9/2023					0.15	0.58	<0.015	0.018	
3/13/2023	0.033								<0.015
Mean	0.07865	0.01416	0.06532	0.007982	0.08459	0.4253	0.01153	0.1106	0.01334
Std. Dev.	0.03036	0.003446	0.007401	0.002483	0.03047	0.06634	0.004996	0.05138	0.004678
Upper Lim.	0.11	0.015	0.06996	0.009538	0.1037	0.4669	0.015	0.1428	0.015
Lower Lim.	0.043	0.00079	0.06069	0.006427	0.0655	0.3837	0.0062	0.07845	0.00093

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 6/2/2023 11:33 AM 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	APMW-8	APMW-9
4/24/2018		<0.005	0.0016	0.00055 (J)				
4/25/2018	0.00061 (J)				0.00071 (J)	0.00046 (J)	0.00042 (J)	0.00081 (J)
6/13/2018	0.00034 (J)							0.00027 (J)
6/14/2018		0.00061 (J)	0.0019	0.00068 (J)	0.0006 (J)	0.00039 (J)	0.00049 (J)	
7/23/2018	0.00035 (J)						0.0006 (J)	0.00041 (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	<0.005	<0.005
10/1/2018		<0.005	<0.005	<0.005				
10/2/2018	<0.005				<0.005	<0.005	<0.005	<0.005
11/1/2018	<0.005						<0.005	<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	<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	<0.005	<0.005
8/8/2019	<0.005	<0.005	0.0017 (J)					<0.005
8/9/2019				<0.005	<0.005	<0.005	<0.005	
8/30/2019	<0.005	<0.005	<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	<0.005	<0.005
11/5/2020		<0.005	<0.005					
11/9/2020				<0.005	<0.005		<0.005	
11/10/2020						<0.005		
11/20/2020	<0.005							<0.005
3/8/2021	<0.005	<0.005						<0.005
3/9/2021			<0.005	<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				<0.005	
4/5/2022	<0.005	<0.005	<0.005					
4/6/2022				<0.005	<0.005	<0.005	<0.005	<0.005
10/17/2022		<0.005						
10/18/2022	<0.005		<0.005			<0.005	<0.005	<0.005
10/19/2022				<0.005	<0.005			
3/8/2023		<0.005	0.0014 (J)	<0.005				
3/9/2023					0.0016 (J)	<0.005	0.00076 (J)	
3/13/2023	<0.005							0.0012 (J)
Mean	0.004194	0.004218	0.003269	0.004211	0.00403	0.004189	0.003957	0.003982
Std. Dev.	0.001795	0.001743	0.001909	0.001757	0.001815	0.001806	0.001939	0.001901
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00061	0.00072	0.0011	0.00068	0.0016	0.00046	0.00076	0.0012

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 6/2/2023 11:33 AM 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
10/17/2022		<0.001	<0.001			
10/18/2022	<0.001			<0.001	<0.001	<0.001
3/8/2023		<0.001	<0.001	<0.001		
3/9/2023					<0.001	
3/13/2023	<0.001					<0.001
Mean	0.0009065	0.0009524	0.0009906	0.0009482	0.0009247	0.0009906
Std. Dev.	0.0002308	0.0001965	3.881E-05	0.0002134	0.000279	0.0002419
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