



Prepared for

Georgia Power Company
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2022 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT WANSLEY ASH POND 1 (AP-1)

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CERTIFICATION STATEMENT

This 2022 *Semiannual Groundwater Monitoring and Corrective Action Report, Plant Wansley Ash Pond 1 (AP-1)* has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule [40 Code of Federal Regulations 257 Subpart D], specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Geosyntec Consultants. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management, and 40 CFR Part 258.50(g).



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August 31, 2022
Date

SUMMARY

This summary of the 2022 *Semiannual Groundwater Monitoring and Corrective Action Report* provides the status of groundwater monitoring and corrective action program for the reporting period of January through July 2022 (referred to herein as the 2022 semiannual reporting period) at Georgia Power Company's (Georgia Power's) Plant Wansley Ash Pond 1 (AP-1) (the Site). This summary was prepared by Geosyntec Consultants, Inc. (Geosyntec) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6¹ of the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (federal CCR Rule) (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Wansley is located on approximately 5,200 acres about 12 miles southeast of the City of Carrollton, Georgia. Although the majority of the plant property lies within Heard County, the physical address of and entrance to the plant is 1371 Liberty Church Road, Carrollton, Carroll County, Georgia. AP-1 is a 343-acre surface impoundment located northwest of the plant, which was designed to receive and store CCR materials. AP-1 began receiving process water containing fly ash and bottom ash in 1976.



Plant Wansley and the Site

As of April 2019, all process-related flows from the plant to AP-1 have ceased. As part of the 2022 Integrated Resource Plan, the Georgia Public Service Commission approved decertification and retirement of the Plant Wansley coal fired units by August 31, 2022. As part of that plan, Georgia Power has elected to close Plant Wansley AP-1 by removal. The 2018 permit submittal will be updated to reflect these changes and submitted to EPD for further review.

Groundwater at the Site is monitored using a comprehensive well network that meets federal and state monitoring requirements. Routine sampling and reporting began after the background groundwater conditions were established between May 2016 to September 2017. Based on groundwater conditions at the Site, an assessment monitoring program was established in January 2018. During the 2022 semiannual reporting period, the Site remained in assessment monitoring.

¹ 80 FR 21468, Apr. 17, 2015, as amended at 81 FR 51807, Aug. 5, 2016; 83 FR 36452, July 30, 2018; 85 FR 53561, Aug. 28, 2020

During the 2022 semiannual reporting period, Geosyntec conducted the semiannual assessment monitoring event in February/March 2022, and two supplementary sampling events in January and June 2022. Groundwater samples collected during the 2022 semiannual reporting period were submitted to Eurofins Environment Testing America (Eurofins) for analysis. Per the federal CCR Rule, groundwater data obtained from these three events were evaluated in accordance with the certified statistical methods. The evaluations identified statistically significant values of select Appendix III² and Appendix IV³ constituents in excess of established groundwater protection standards (GWPS) in select monitoring wells, as summarized in the table below for the 2022 semiannual reporting period. On February 22, 2022, GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS where a maximum contaminant level (MCL) has not been established. These levels were specified for cobalt (0.006 milligrams per liter (mg/L)), lead (0.015 mg/L), lithium (0.040 mg/L) and molybdenum (0.100 mg/L), except when site specific background concentrations of these constituents are higher. Statistical evaluations for the February/March 2022 and the June 2022 monitoring events were updated to reflect these changes; the data obtained from the January 2022 event were not evaluated due to the limited number of independent samples (i.e., minimum of four).

Appendix III Constituent	February/March 2022	June 2022⁴
Boron	WGWC-8, WGWC-9, WGWC-16	---
Calcium	WGWC-8	---
Chloride	WGWC-8, WGWC-16	---
Fluoride	WGWC-9, WGWC-15, WGWC-19	---
Sulfate	WGWC-8, WGWC-9, WGWC-16	---
Total Dissolved Solids	WGWC-8	---
Appendix IV Constituent⁵	February/March 2022	June 2022⁶
Beryllium	---	WGWC-20
Lithium	WGWC-19	WGWC-20

² Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)

³ Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

⁴ Only compliance monitoring wells WGWC-20 through WGWC-25 were sampled in June 2022.

⁵ A statistically significant level (SSL)-related constituent is determined by comparing the confidence intervals developed to either the constituent's maximum contaminant level (MCL), if available; where an MCL has not been established, then a CCR-rule specific GWPS; or background concentrations for constituents where the concentration is greater than the MCL or rule specified GWPS.

⁶ Only compliance monitoring wells WGWC-20 through WGWC-25 were sampled in June 2022.

An Alternate Source Demonstration (ASD)⁷ was submitted that presents multiple lines of evidence that the lithium groundwater concentrations detected at WGWC-19 are not associated with a release from AP-1 but are instead attributed to a natural source of lithium in rock formations at the Site.

Based on the statistical analyses results reported herein, SSLs of Appendix IV constituents were identified for groundwater data collected during this 2022 semiannual reporting period that are not addressed by preexisting ASDs. Pursuant to § 257.96(a), within 90 days from determining an SSL, Georgia Power will either (1) prepare a demonstration that a source other than AP-1 was the cause, or (2) initiate an assessment of corrective measures (ACM) program per § 257.96. Pursuant to § 257.96(b), Georgia Power will continue to monitor the groundwater at AP-1 in accordance with the assessment monitoring program regulations of § 257.95 during this evaluation period. Reports will be posted to Georgia Power's CCR Rule Compliance website and provided to GA EPD semiannually.

⁷ An ASD was submitted in January 2019 (ACC, 2019b). An Addendum to the ASD was submitted in November 2020 (Geosyntec, 2020) and revised in February 2021 (Geosyntec, 2021b).

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LIST OF ACRONYMS AND ABBREVIATIONS

ACC	Atlantic Coast Consulting, Inc.
ACM	Assessment of Corrective Measures
AP-1	Ash Pond 1
ASD	Alternate Source Demonstration
CCR	coal combustion residuals
CFR	Code of Federal Regulations
cm/sec	centimeters per second
DO	dissolved oxygen
ERM	Environmental Resources Management
Eurofins	Eurofins Environment Testing America
ft bgs	feet below ground surface
ft/day	feet per day
ft/ft	feet per foot
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
Geosyntec	Geosyntec Consultants, Inc.
GSC	Groundwater Stats Consulting
GWPS	Groundwater Protection Standard
HAR	Hydrogeologic Assessment Report
i	horizontal hydraulic gradient
K_h	horizontal hydraulic conductivity
MCL	Maximum Contaminant Level
mg/L	milligram per liter
n_e	effective porosity
NELAP	National Environmental Laboratory Accreditation Program
NTU	nephelometric turbidity units
ORP	oxidation-reduction potential
PE	Professional Engineer
PL	prediction limit
PWR	partially weathered rock
QA/QC	Quality Assurance/Quality Control
SSI	statistically significant increase
SSL	statistically significant level
s.u.	standard unit
TDS	total dissolved solids
Unified Guidance	Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance

USEPA

United States Environmental Protection Agency

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (federal CCR Rule) [40 Code of Federal Regulations (CFR) Part 257, Subpart D] and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, Geosyntec Consultants, Inc. (Geosyntec) has prepared this *2022 Semiannual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted at Georgia Power Company (Georgia Power) Plant Wansley (Site) Ash Pond 1 (AP-1) for the reporting period of January through July 2022 (referred to herein as the 2022 semiannual reporting period).

Groundwater monitoring and reporting for the CCR unit is performed in accordance with the monitoring requirements of § 257.90 through 257.95 of the federal CCR Rule, and GA EPD Rules for Solid Waste Management 391-3-4-.10(6). To specify groundwater monitoring requirements, GA EPD rule 391-3-4-.10(6)(a) incorporates by reference the federal CCR Rule. For ease of reference, the federal CCR Rule is cited within this report in lieu of citing both sets of regulations.

1.1 Site Description and Background

Plant Wansley is located on approximately 5,200 acres about 12 miles southeast of the City of Carrollton, Georgia. Although the majority of the plant property lies within Heard County, the physical address of and entrance to the plant is 1371 Liberty Church Road, Carrollton, Carroll County, Georgia. The plant property is bounded on the east and southeast by the Chattahoochee River, and sparsely populated, forested, rural, and agricultural land to the north, south, and west. AP-1 is a 343-acre surface impoundment located northwest of the plant (**Figure 1**), which was designed to receive and store CCR materials. AP-1 began receiving process water containing fly ash and bottom ash in 1976. As of April 2019, all process-related flows from the plant to AP-1 have ceased. As part of the 2022 Integrated Resource Plan, the Georgia Public Service Commission approved decommissioning of the Plant Wansley coal fired units on August 31, 2022. As part of that plan, Georgia Power has elected to close Plant Wansley AP-1 by removal. The 2018 permit submittal will be updated to reflect these changes and submitted to EPD for further review.

1.2 Regional Geology and Hydrogeologic Setting

The following section summarizes the geologic and hydrogeologic conditions at AP-1 as described in the *Hydrogeologic Assessment Report Revision 02 – Plant Wansley* (HAR Rev 02) (Geosyntec, 2022) submitted to GA EPD in support of the closure permit application.

1.2.1 Regional and Site Geology

Plant Wansley is located within the Piedmont Physiographic Province (Piedmont) of western Georgia, which is characterized by gently rolling hills with locally pronounced low, linear ridges, trending northeast-southwest, and separated by valleys. Over geologic time, the Piedmont has been subjected to multiple events of uplift, folding and faulting, alternation, and erosion.

The Piedmont Province is generally underlain by a variably thick blanket of overburden, which is comprised of residual and saprolitic soils derived from the in-place weathering of bedrock. Near the ground surface, soils are generally silt- and clay-rich, with fine-sand and sand becoming more prominent with depth. With increasing depth, the weathered materials tend to retain details of the structural features of the underlying bedrock. Occasional deposits of alluvium are present in valleys and drainage features. A mantle of partially weathered rock (PWR) and the upper fractured surface of the bedrock in the Piedmont comprises a zone often referred to as the “transition zone.”

Bedrock in the Piedmont is predominately composed of metamorphic rock of Precambrian to Paleozoic age. The Site is underlain by several bedrock types consisting of graphitic schist, muscovite schist, biotite schist, schist with interlayered mafic units, amphibolite/hornblende gneiss, granitic gneiss, and feldspathic quartzite as identified in boring logs. Saprolitic soils were described at variable thickness across the Site but were generally encountered at or near ground surface. As is characteristic of this province, the Site has two pronounced ridges, one on the northwest side of AP-1 and one on the southeast side of AP-1, as well as smaller rolling hills along the western property boundary.

1.2.2 Hydrogeologic Setting

While the aquifer characteristics of each lithologic unit may vary, the groundwater is interconnected between these units, and they effectively act as one, unconfined aquifer. The uppermost aquifer at AP-1 occurs primarily in PWR and fractured bedrock.

According to previous site investigations, the potentiometric surface is a subdued reflection of the topography. The top of bedrock surface also generally follows topography and likely controls groundwater flow direction in the uppermost aquifer. Because of the steep topography at the Site and variable lithologic framework, the depth to the water table is variable, ranging from approximately 1 to 50 feet below ground surface (ft bgs). The regional groundwater flow direction is expected to be to the southeast; however, in topographically high areas south of AP-1, shallower water table elevations are noted within the saprolite and PWR, and hydraulic gradients indicate localized flow northward (or inward) toward the pond.

Groundwater in the saprolite and PWR is hydraulically connected to the bedrock via fractures and deeply weathered areas of the rock. Recharge is by precipitation infiltrating through the saprolite to the bedrock. Based on observations of soil types and horizontal conductivity values, the movement of groundwater in the saprolite is very slow and likely acts as flow through a low-permeability porous media. Groundwater flow in the PWR and the transition zone between the PWR and the fractured bedrock is expected to be greater than in the overlying saprolite and the underlying fractured bedrock. Groundwater flow in the bedrock is restricted entirely to flow through fractures. Visual observations and geophysical logging during field investigations indicate a trend of decreasing fracture aperture and density with depth, consistent with regional geologic trends.

1.3 Groundwater Monitoring Well Network

In accordance with § 257.91, a groundwater monitoring system was installed at AP-1 that consists of a sufficient number of wells installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer to represent the groundwater quality both upgradient of AP-1 (i.e., background conditions) and passing the waste boundary of AP-1. The number, spacing, and depths of the groundwater monitoring wells were selected based on the characterization of site-specific hydrogeologic conditions.

Piezometers and characterization wells are used in combination with the compliance well network to gauge groundwater levels in the vicinity of AP-1 to refine groundwater flow direction and gradients. The locations of the compliance monitoring wells, piezometers, and characterization wells are shown on **Figure 2**; well and piezometer construction details are listed in **Table 1**.

2.0 GROUNDWATER MONITORING ACTIVITIES

In accordance with § 257.90(e), the following describes monitoring-related activities performed during the 2022 semiannual reporting period and discusses any changes in status of the monitoring program. Groundwater sampling was performed in accordance with § 257.93.

2.1 Monitoring Well Installation and Maintenance

No additional compliance monitoring wells, characterization wells, or piezometers were installed during the 2022 semiannual reporting period.

The well and piezometer networks are inspected semiannually to evaluate if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In February/March 2022, the networks were inspected. As documented in the *Well Maintenance and Repair Documentation Memorandum* provided in **Appendix A**, no corrective actions were identified. This well inspection and documentation was performed under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 Assessment Monitoring

Georgia Power initiated an assessment monitoring program for groundwater at AP-1 in January 2018. Statistical analyses of the 2018 assessment monitoring data identified an SSL of lithium in compliance monitoring wells WGWC-8, WGWC-9, WGWC-10, and WGWC-19 in excess of the associated federal and/or state groundwater protection standards (GWPS).

During the 2022 semiannual reporting period, compliance monitoring wells WGWA-1 through WGWC-25 were sampled in February/March 2022 in support of the assessment monitoring program. Supplemental sampling events were conducted in January and June 2022 to provide a data set consisting of a minimum of four samples for compliance monitoring wells WGWC-20 through WGWC-25 to allow for statistical analysis. The number of groundwater samples collected for analysis and the dates the samples were collected at AP-1 are summarized in **Table 2**. Details of the events and analytical results are discussed in Section 3. Laboratory reports associated with the groundwater sampling events completed in January, February/March, and June 2022 are presented in **Appendix B**.

2.3 Additional Groundwater and Surface Water Sampling

During the February/March 2022 groundwater sampling event, supplemental groundwater samples were collected from the compliance monitoring well network for laboratory analysis for major cations (calcium, magnesium, potassium, and sodium) and anions (chloride, sulfate, and bicarbonate alkalinity), as well as iron, manganese, and sulfide. Major cation and anion data collected in February/March 2022 were used to evaluate the geochemical composition of the groundwater. The laboratory reports associated with the additional groundwater sampling completed in February/March 2022 are presented in **Appendix B**.

In support of risk evaluation efforts, Georgia Power collected surface water samples from the Chattahoochee River at locations upstream and downstream of AP-1 in March 2022. The field sampling forms and laboratory report associated with the surface water sampling is presented in **Appendix B**.

3.0 SAMPLING METHODOLOGY AND ANALYSES

The following section presents a summary of the field sampling procedures that were implemented, and the groundwater sampling results that were obtained in connection with the assessment monitoring program conducted at AP-1 during the 2022 semiannual reporting period.

3.1 Groundwater Level Measurement

A synoptic round of depth-to-groundwater-level measurements were recorded from the AP-1 wells and piezometers on February 28, 2022, and used to calculate the corresponding groundwater elevations, which are presented in **Table 3**. The reported elevations are generally representative of the groundwater elevations reported for prior monitoring events.

The groundwater elevation data were used to prepare a potentiometric surface map for the February/March 2022 event, which is presented on **Figure 3**. Groundwater in the AP-1 area flows under the influence of topography and generally flows inward towards AP-1 with a minor component of flow to the southeast from AP-1.

3.2 Groundwater Gradient and Flow Velocity

The horizontal groundwater hydraulic gradients within the uppermost aquifer at AP-1 were calculated using the groundwater elevation data from the February/March 2022 event. Hydraulic gradients were calculated along the flow paths between PZ-01 and WGWC-17 and between PZ-10 and WGWC-19. The supporting calculations are presented in **Table 4**; the locations of the flow paths used in the calculations and associated potentiometric contour lines are shown on **Figure 3**. The calculated hydraulic gradient between PZ-01 and WGWC-17 is 0.085 feet per foot (ft/ft); the hydraulic gradient between PZ-10 and WGWC-19 is 0.092 ft/ft.

The approximate horizontal flow velocities associated with AP-1 were calculated using the following derivative of Darcy's Law. The calculations are presented in **Table 4**.

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

where:

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

K_h = Horizontal hydraulic conductivity $\left(\frac{\text{feet}}{\text{day}}\right)$

i = Horizontal hydraulic gradient $\left(\frac{\text{feet}}{\text{foot}}\right) = \frac{h_1 - h_2}{L}$

h_1 and h_2 = Groundwater elevation at location 1 and 2

L = Distance between location 1 and 2

n_e = Effective porosity

The average horizontal hydraulic conductivity (K_h) for AP-1 of 9.5×10^{-5} centimeters per second (cm/sec) [0.27 feet per day (ft/day)] was computed from previous slug test data obtained from testing of wells at AP-1 (Geosyntec, 2022). An estimated effective porosity of 0.25 is used to represent average conditions at AP-1, derived based on review of literature (Driscoll, 1986; Freeze and Cherry, 1979), observed site lithology, and professional judgement. With these variables defined, and accounting for the averaged hydraulic gradient discussed above, the calculated flow velocity for the 2022 semiannual reporting period was approximately 0.092 ft/day (PZ-01 to WGWC-17) and 0.099 ft/day (PZ-10 to WGWC-19), for an average groundwater flow velocity in the vicinity of AP-1 of 0.095 ft/day, or approximately 35 ft/year.

3.3 Groundwater Sampling Procedures

Groundwater samples were collected using low-flow sampling procedures in accordance with § 257.93(a). Purging and sampling was performed using dedicated bladder pumps with dedicated tubing, non-dedicated bladder pumps, and peristaltic pumps. For wells sampled with non-dedicated bladder pumps and peristaltic pumps, the pump intake was lowered to the midpoint of the well screen (or as appropriate based on the groundwater level). Non-dedicated bladder pump and peristaltic pump samples were collected using new disposable polyethylene tubing; all non-dedicated tubing was disposed of following the sampling event. All non-disposable equipment was decontaminated before use and between well locations.

An in-situ water quality field meter (SmarTroll, Aqua TROLL, or similar) was used to monitor and record field water quality parameters [i.e., pH, conductivity, dissolved oxygen (DO), temperature, and oxidation reduction potential (ORP)] during well purging to verify stabilization prior to sampling. Turbidity was measured using a LaMotte 2100Q

(or similar) portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met:

- pH \pm 0.1 standard units (s.u.)
- Conductivity \pm 5 %
- \pm 0.2 milligrams per liter (mg/L) or \pm 10% (whichever is greater) for DO > 0.5 mg/L. No criterion applies if DO < 0.5 mg/L, record only.
- Turbidity measured less than 5 nephelometric turbidity units (NTU) or measured between 5 and 10 NTU following three hours of purging.

Following purging, and once stabilization was achieved, unfiltered samples were collected into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to Eurofins Environment Testing America (Eurofins) in Pittsburgh, Pennsylvania following chain-of-custody protocol. The field sampling and equipment calibration forms generated during the 2022 semiannual reporting period are provided in **Appendix B**.

3.4 Laboratory Analyses

Laboratory analyses were performed by Eurofins, which is accredited by the National Environmental Laboratory Accreditation Program (NELAP). Eurofins maintains a NELAP certification for the Appendix III and Appendix IV constituents analyzed for this project. Analytical methods used for groundwater sample analyses, and associated results, are listed in the analytical laboratory reports included in **Appendix B**.

The groundwater analytical results from the 2022 semiannual assessment monitoring event and the January and June 2022 sampling events for WGWC-20 through WGWC-25 are summarized in **Table 5**.

3.5 Quality Assurance and Quality Control Summary

Quality assurance/quality control (QA/QC) samples were collected during the groundwater monitoring events at the minimum rate of one set of QA/QC samples per 10 groundwater samples. One set of QA/QC samples included the following: field duplicate, equipment blank (where non-dedicated sampling equipment was used), and field blank samples. QA/QC samples were collected in appropriately preserved laboratory-supplied

sample containers and submitted under the same chain of custody as the primary samples for analysis of the same constituents by Eurofins.

In addition to collecting QA/QC samples, the data were validated based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and applicable federal guidance documents (USEPA, 2011; USEPA, 2017). Where necessary, the data were qualified with supporting documentation and justifications. The data are considered usable for meeting project objectives, and the results are considered valid. The associated data validation reports are provided in **Appendix B** with the laboratory reports.

4.0 STATISTICAL ANALYSIS

The following section summarizes the statistical analysis of Appendix III groundwater monitoring data performed pursuant to § 257.93. In addition, pursuant to § 257.95(d)(2), Georgia Power established GWPS for the Appendix IV constituents and completed statistical analyses of the Appendix IV groundwater monitoring data obtained during the 2022 semiannual reporting period. The data were analyzed by Groundwater Stats Consulting (GSC); the report generated from the analyses are provided in **Appendix C**.

4.1 Statistical Methods

Groundwater data from the 2022 semiannual reporting period were statistically analyzed in accordance with the Professional Engineer-certified (PE-certified) Statistical Analysis Method Certification (October 2017, revised January 2020) (ERM, 2017; Atlantic Coast Consulting, Inc. [ACC], 2020). 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 and guidance as recommended in the USEPA document *Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance* (Unified Guidance) (USEPA, 2009).

Appendix III statistical analysis was performed to assess if Appendix III constituents have returned to background levels. Appendix IV constituents were evaluated to assess if concentrations statistically exceeded the established GWPS. Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in the statistical analysis report provided in **Appendix C** and summarized in Sections 4.1.1 and 4.1.2. The GWPS were finalized pursuant to § 257.95(d)(2) and presented in **Table 6**. On February 22, 2022, GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS where a maximum contaminant level (MCL) has not been established. These levels were specified for cobalt (0.006 milligrams per liter (mg/L)), lead (0.015 mg/L), lithium (0.040 mg/L) and molybdenum (0.100 mg/L), except when site specific background concentrations of these constituents are higher. Therefore the statistical report and **Table 6** do not differentiate between two sets of GWPS as previously required.

4.1.1 Appendix III Statistical Methods

Based on guidance from GA EPD, statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits (PL) combined with a 1-of-2

verification resample plan for each of the Appendix III constituents. Interwell PLs pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the background limit for each constituent to assess whether there are statistically significant increases (SSIs). An "initial exceedance" occurs when an Appendix III constituent reported in the groundwater of a downgradient compliance monitoring well exceeds the constituent's associated PL. The 1-of-2 resample plan allows for collection of an independent resample. A confirmed exceedance is noted only when the resample confirms the initial exceedance by also exceeding the statistical limit. If the resample falls within its respective PL, no exceedance is declared.

4.1.2 Appendix IV Statistical Methods

To statistically compare groundwater data to GWPS, confidence intervals are constructed for each of the detected Appendix IV constituents in each downgradient compliance monitoring well with a data set consisting of a minimum of four samples. In accordance with Section 21.1.1 of the Unified Guidance (USEPA, 2009), four independent data are the minimum population size recommended to construct confidence intervals required to assess statistically significant levels (SSLs) of Appendix IV constituents. Due to previous non-routine sampling, some Appendix IV constituents at a well location have differing number of analytical data points

The confidence intervals are compared to the GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its GWPS. If a confidence interval exceeds a GWPS, an SSL exceedance is identified.

USEPA revised the federal CCR Rule on July 30, 2018, updating GWPS for cobalt, lead, lithium, and molybdenum. As described in § 257.95(h)(1-3), the GWPS is defined by the below criteria. These criteria were adopted into the GA EPD Rules for Solid Waste Management 391-3-4-.10 on February 22, 2022. Therefore, the statistical evaluation for the February/March 2022 and June 2022 events were updated to reflect these changes.

- (1) The MCL established under § 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.

Following the above requirements, GWPS have been established for statistical comparison of Appendix IV constituents and are presented in **Table 6**.

4.2 Statistical Analyses Results

Based on review of the Appendix III statistical analysis discussion presented in **Appendix C**, groundwater conditions have not returned to background levels and assessment monitoring should continue. Based on the statistical analyses of Appendix IV constituents, the following constituent(s) exceeded the GWPS for the 2022 semiannual reporting period:

4.2.1 February/March 2022 Data

- Lithium: WGWC-19 and WGWC-20

4.2.2 June 2022 Data

- Beryllium: WGWC-20
- Lithium: WGWC-20

4.2.3 Summary of Statistical Analyses

No SSLs of lithium were identified in WGWC-8 and WGWC-9. All previously identified SSLs of lithium in these wells have at all times complied with the GWPS, as established by GA EPD on February 22, 2022.

The SSLs of beryllium and lithium in WGWC-20 were first identified during this reporting period following collection of a sufficient number of groundwater samples (minimum of four independent samples) from WGWC-20 to complete statistical analysis of the data.

As noted in Section 5.0, an alternate source demonstration (ASD) and an ASD Addendum have been submitted to GA EPD (ACC, 2019b; Geosyntec, 2021b), which provide lines of evidence to demonstrate that the lithium in groundwater at WGWC-19 is naturally-derived from the subsurface rock formations.

5.0 ALTERNATE SOURCE DEMONSTRATION

In accordance with § 257.94(e), Georgia Power implemented assessment monitoring in January 2018. SSLs of the Appendix IV constituent lithium were identified in compliance monitoring wells WGWC-8, WGWC-9, WGWC-10⁸, and WGWC-19 during the 2018 reporting year. In accordance with § 257.95(g)(3), Georgia Power prepared an ASD for lithium (ACC, 2019b), which was included in the *2018 Annual Groundwater Monitoring and Corrective Action Report* (ACC, 2019a). The ASD presented evidence that the source of lithium in groundwater at wells WGWC-8, WGWC-9, WGWC-10, and WGWC-19 was naturally-derived from the subsurface rock formations and did not originate from the unit.

An ASD Addendum was submitted to GA EPD under separate cover in November 2020 (Geosyntec, 2020) and was provided in the *2020 Annual Groundwater Monitoring and Corrective Action Report* (Geosyntec, 2021a). A revised ASD Addendum was submitted to GA EPD under separate cover in February 2021 (Geosyntec, 2021b). The ASD Addendum presents supplemental data collected since submittal of the ASD, which provide additional lines of evidence to demonstrate that the lithium SSLs identified at WGWC-8, WGWC-9, and WGWC-19 are associated with naturally occurring lithium within rock formations at the Site. As noted previously, with adoption of the USEPA federal GWPS by GA EPD on February 22, 2022, SSLs of lithium are no longer identified at WGWC-8 and WGWC-9.

⁸ As presented in the ASD Addendum (Geosyntec, 2021b), decreasing lithium concentrations detected at WGWC-10 reduced the lower confidence interval to below the state GWPS of 0.009 mg/L following the second semiannual groundwater assessment event in September 2019, thereby no longer identifying an SSL of lithium at this compliance well.

6.0 MONITORING PROGRAM STATUS

Based on the statistical analyses results reported herein, SSLs of Appendix IV constituents were identified for groundwater data collected during this 2022 semiannual reporting period that are not addressed by preexisting ASDs. Pursuant to § 257.96(a), within 90 days from determining an SSL, Georgia Power will either (1) prepare a demonstration that a source other than AP-1 was the cause, or (2) initiate an assessment of corrective measures (ACM) program per § 257.96. Pursuant to § 257.96(b), Georgia Power will continue to monitor the groundwater at AP-1 in accordance with the assessment monitoring program regulations of § 257.95 during this evaluation period.

7.0 CONCLUSIONS AND FUTURE ACTIONS

This 2022 *Semiannual Groundwater Monitoring and Corrective Action Report* for Plant Wansley AP-1 was prepared to fulfill the requirements of the federal CCR Rule and GA EPD Rules for Solid Waste Management 391-3-4-.10. Statistical analyses of the groundwater monitoring data for AP-1 for the 2022 semiannual reporting period identified SSLs of beryllium and lithium in WGWC-20, and lithium in WGWC-19.

The 2018 ASD and 2021 ASD Addendum present multiple lines of evidence that illustrate that lithium SSLs in groundwater at AP-1 are associated with naturally occurring lithium within rock formations at the Site and are not originating from AP-1. As noted in Section 6, Georgia Power is evaluating options to address the SSLs identified during this 2022 semiannual reporting period in accordance with the requirements, and options, of § 257.96.

Georgia Power will continue to monitor the groundwater in the vicinity of AP-1 in accordance with the current assessment monitoring program. The next routine semiannual assessment monitoring event is scheduled for August 2022. The August 2022 semiannual assessment monitoring event will include sampling and analysis of all Appendix III and IV constituents.

8.0 REFERENCES

- ACC, 2019a. *2018 Annual Groundwater Monitoring and Corrective Action Report - Plant Wansley Ash Pond 1 (AP-1)*. January 2019.
- ACC, 2019b. *Alternate Source Demonstration – Plant Wansley Ash Pond*. January 2019.
- ACC, 2020. *Statistical Analysis Method Certification – Georgia Rule 391-3-4-.10(6) and 40 CFR §257.93(f) – Plant Wansley Ash Pond (AP-1) – Georgia Power Company*. January 2020.
- Driscoll, F.G.. 1986, *Groundwater and Wells*. 2nd Edition, Johnson Screens, St. Paul, MN. 1986.
- ERM, 2017. *Statistical Analysis Method Certification – 40 C.F.R. §257.93(f) – Plant Wansley Ash Pond (AP-1) – Georgia Power Company*. October 2017.
- Freeze, R.A. and Cherry, J.A., 1979, *Groundwater*. Prentice-Hall, Englewood Cliffs, NJ. 1979.
- Geosyntec, 2020. *Alternative Source Demonstration Addendum – Lithium – Plant Wansley Ash Pond 1 (AP-1)*. November 2020.
- Geosyntec, 2021a. *2020 Annual Groundwater Monitoring and Corrective Action Report – Plant Wansley Ash Pond 1 (AP-1)*. January 2021.
- Geosyntec, 2021b. *Alternative Source Demonstration Addendum - Lithium – Plant Wansley Ash Pond 1 (AP-1)*. February 2021.
- Geosyntec, 2022. *Hydrogeologic Assessment Report (Revision 02) – Plant Wansley*. July 2022.
- Sanitas: Groundwater Statistical Software, v. 9.6.05 (2018). Sanitas Technologies[®], Boulder, CO.
- USEPA, 2009. *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance*. Office of Resource Conservation and Recovery – Program Implementation and Information Division. March 2009.

USEPA, 2011. *Region IV Data Validation Standard Operating Procedures*. Science and Ecosystem Support Division. Region IV. Athens, GA. September 2011.

USEPA, 2017. *National Functional Guidelines for Inorganic Superfund Methods Data Review*. Office of Superfund Remediation and Technology Innovation. OLEM 9355.0-135 [EPA-540-R-2017-001]. Washington, DC. January 2017.

TABLES

Table 1
Monitoring Well Network Summary
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Well ID	Hydraulic Location / Purpose	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Ground Surface Elevation ^(1,2) (ft)	Top of Casing Elevation ⁽¹⁾ (ft)	Top of Screen Elevation ⁽¹⁾ (ft)	Bottom of Screen Elevation ⁽¹⁾ (ft)	Well Depth (ft BTOC) ⁽³⁾	Screen Interval Length (ft)
Compliance Monitoring Well										
WGWA-1	Upgradient	10/21/2015	1250656.10	2035580.71	780.37	782.93	663.37	653.37	129.56	10
WGWA-2	Upgradient	10/16/2015	1251556.40	2035590.11	755.77	758.23	665.77	655.77	102.46	10
WGWA-3	Upgradient	12/15/2014	1240848.21	2022350.10	826.63	828.91	820.23	810.23	18.68	10
WGWA-4	Upgradient	01/13/2015	1240879.58	2022339.66	831.33	834.34	780.43	760.43	74.31	20
WGWA-5	Upgradient	12/23/2014	1241997.94	2022368.85	899.28	902.15	888.88	878.88	23.66	10
WGWA-6	Upgradient	01/13/2015	1241932.02	2022360.58	894.62	897.13	822.62	792.62	104.91	30
WGWA-7	Upgradient	12/22/2014	1243338.63	2023843.81	894.49	897.33	867.69	857.69	40.04	10
WGWA-18	Upgradient	12/16/2014	1244592.56	2025580.71	875.47	878.02	848.47	838.47	39.95	10
WGWC-8	Downgradient	10/29/2015	1242929.40	2029644.58	777.70	780.08	730.70	720.70	59.38	10
WGWC-9	Downgradient	12/4/2014	1242801.12	2029115.75	809.33	812.03	760.93	750.93	61.50	10
WGWC-10	Downgradient	10/27/2015	1240971.96	2026725.61	809.61	812.38	673.61	663.61	148.77	10
WGWC-11	Downgradient	12/8/2014	1240860.18	2025773.39	821.44	823.96	783.14	773.14	51.22	10
WGWC-12	Downgradient	10/22/2015	1240827.68	2025755.99	820.57	823.04	756.57	746.57	76.47	10
WGWC-13	Downgradient	11/4/2015	1240610.93	2024585.91	807.32	809.78	734.32	714.32	95.46	20
WGWC-14A	Downgradient	01/31/2017	1240604.54	2024599.63	808.20	810.94	778.20	768.20	42.74	10
WGWC-15	Downgradient	11/11/2015	1240483.16	2023912.92	802.03	804.69	758.53	748.53	56.16	10
WGWC-16	Downgradient	11/11/2015	1240480.46	2023903.77	801.72	804.21	779.72	769.72	34.50	10
WGWC-17	Downgradient	11/06/2015	1240052.06	2022623.82	813.36	816.00	730.36	720.36	95.94	10
WGWC-19	Downgradient	10/28/2015	1241851.51	2028949.19	780.60	783.42	698.60	688.60	94.82	10
WGWC-20	Downgradient	09/29/2020	1243350.76	2029769.43	804.88	807.95	775.18	765.18	43.17	10
WGWC-21	Downgradient	10/02/2020	1242139.33	2028512.65	831.79	834.41	773.11	763.11	71.70	10
WGWC-22	Downgradient	10/18/2020	1241695.25	2028116.05	807.00	810.37	776.92	766.92	43.85	10
WGWC-23	Downgradient	10/04/2020	1240769.79	2027414.58	820.50	823.80	780.40	770.40	53.80	10
WGWC-24	Downgradient	10/17/2020	1239916.68	2024139.82	802.22	804.80	774.43	764.43	40.77	10
WGWC-25	Downgradient	10/28/2020	1240184.18	2023616.69	805.98	808.98	779.51	769.51	39.87	10
Piezometer										
PZ-01	Piezometer	12/12/2014	1240249.86	2022319.93	853.91	856.72	817.81	807.81	49.31	10
PZ-04	Piezometer	12/22/2014	1242592.03	2023595.91	886.13	889.01	878.93	868.93	20.48	10
PZ-06	Piezometer	12/17/2014	1244382.89	2024661.39	912.30	915.15	898.60	888.60	26.95	10
PZ-08	Piezometer	12/15/2014	1245514.59	2026807.30	864.65	867.29	836.85	826.85	40.84	10
PZ-10	Piezometer	12/05/2014	1242058.41	2028554.29	829.26	832.02	810.46	800.46	31.96	10
PZ-11	Piezometer	12/05/2014	1240578.87	2026933.09	820.21	823.09	799.71	789.71	33.78	10
PZ-12	Piezometer	12/08/2014	1240837.96	2026731.01	816.17	818.74	779.37	769.37	49.78	10
PZ-15	Piezometer	12/10/2014	1240457.61	2025105.38	824.59	826.86	795.79	785.79	41.46	10
PZ-16	Piezometer	12/11/2014	1239419.77	2023662.22	798.05	800.70	785.05	775.05	26.15	10
PZ-17	Piezometer	12/11/2014	1239270.02	2023086.50	828.54	831.01	789.84	779.84	51.57	10
PZ-18	Piezometer	12/11/2014	1239569.52	2022299.20	812.10	814.51	788.20	778.20	36.71	10
PZ-20	Piezometer	01/31/2017	1243496.86	2030132.73	784.45	787.30	759.45	749.45	37.85	10
PZ-23D	Piezometer	10/02/2020	1242139.53	2028520.87	831.89	834.32	749.92	739.92	94.80	10
PZ-26D	Piezometer	10/12/2020	1239919.45	2024146.35	802.31	804.93	735.23	725.23	80.10	10
PZ-27D	Piezometer	10/15/2020	1240190.93	2023620.36	806.22	809.28	737.96	727.96	81.72	10
PZ-28	Piezometer	10/29/2020	1240066.02	2022624.73	813.57	816.18	753.68	743.68	72.90	10
PZ-29S	Piezometer	10/31/2020	1244317.13	2028839.68	805.80	805.30	770.28	760.28	45.42	10
PZ-29D	Piezometer	11/01/2020	1244304.90	2028853.29	805.77	805.24	688.69	678.69	126.95	10
Characterization Monitoring Well										
WAMW-1	Characterization	09/16/2018	1241843.66	2028944.63	780.05	782.66	668.40	658.40	124.60	10
WAMW-2	Characterization	09/14/2018	1241547.56	2028806.27	768.39	770.82	694.19	684.19	86.92	10

Notes:

ft = feet

ft BTOC = feet below top of casing

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey of WGWA-1 through WGWA-18, WGWC-8 through WGWC-19, WAMW-1 and WAMW-2, and PZ-01 through PZ-20 was completed by GEL Solutions and certified June 16, 2020. Survey of WGWC-20 through WGWC-25, and PZ-23D through PZ-29D was completed by GEL Solutions and certified on November 17, 2020.

(2) Ground surface elevation defined at the survey nail installed within the well pad.

(3) Total well depth accounts for sump if data provided on construction logs.

Table 2
Groundwater Sampling Event Summary
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Well ID	Hydraulic Location	January 11-12, 2022	February 28 - March 4, 2022	June 6 - 7, 2022	Status of Monitoring Well
		Purpose of Sampling Event: Supplemental	Assessment	Supplemental	
<i>Compliance Monitoring Well</i>					
WGWA-1	Upgradient	--	X	--	Assessment
WGWA-2	Upgradient	--	X	--	Assessment
WGWA-3	Upgradient	--	X	--	Assessment
WGWA-4	Upgradient	--	X	--	Assessment
WGWA-5	Upgradient	--	X	--	Assessment
WGWA-6	Upgradient	--	X	--	Assessment
WGWA-7	Upgradient	--	X	--	Assessment
WGWA-18	Upgradient	--	X	--	Assessment
WGWC-8	Downgradient	--	X	--	Assessment
WGWC-9	Downgradient	--	X	--	Assessment
WGWC-10	Downgradient	--	X	--	Assessment
WGWC-11	Downgradient	--	X	--	Assessment
WGWC-12	Downgradient	--	X	--	Assessment
WGWC-13	Downgradient	--	X	--	Assessment
WGWC-14A	Downgradient	--	X	--	Assessment
WGWC-15	Downgradient	--	X	--	Assessment
WGWC-16	Downgradient	--	X	--	Assessment
WGWC-17	Downgradient	--	X	--	Assessment
WGWC-19	Downgradient	--	X	--	Assessment
WGWC-20 ⁽¹⁾	Downgradient	X	X	X	Assessment
WGWC-21 ⁽¹⁾	Downgradient	X	X	X	Assessment
WGWC-22 ⁽¹⁾	Downgradient	X	X	X	Assessment
WGWC-23 ⁽¹⁾	Downgradient	X	X	X	Assessment
WGWC-24 ⁽¹⁾	Downgradient	X	X	X	Assessment
WGWC-25 ⁽¹⁾	Downgradient	X	X	X	Assessment

Notes:

-- = Not applicable

(1) Well installed in 2020 and incorporated into the groundwater monitoring program in 2021. WGWC-20 through WGWC-25 were formerly identified as PZ-22, PZ-23S, PZ-24, PZ-25S, PZ-26S, and PZ-27S, respectively.

Table 3
Summary of Groundwater Elevations
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Well ID	Top of Casing Elevation ⁽¹⁾ (ft)	February 28, 2022	
		Depth to Water (ft BTOC)	Groundwater Elevation ⁽¹⁾ (ft)
<i>Compliance Monitoring Well</i>			
WGWA-1	782.93	27.96	754.97
WGWA-2	758.23	9.33	748.90
WGWA-3	828.91	2.78	826.13
WGWA-4	834.34	4.35	829.99
WGWA-5	902.15	14.35	887.80
WGWA-6	897.13	16.47	880.66
WGWA-7	897.33	26.80	870.53
WGWA-18	878.02	20.99	857.03
WGWC-8	780.08	3.28	776.80
WGWC-9	812.03	19.55	792.48
WGWC-10	812.38	20.68	791.70
WGWC-11	823.96	27.22	796.74
WGWC-12	823.04	26.74	796.30
WGWC-13	809.78	19.02	790.76
WGWC-14A	810.94	20.20	790.74
WGWC-15	804.69	19.93	784.76
WGWC-16	804.21	19.11	785.10
WGWC-17	816.00	29.68	786.32
WGWC-19	783.42	19.65	763.77
WGWC-20	807.95	28.47	779.48
WGWC-21	834.41	49.21	785.20
WGWC-22	810.37	16.55	793.82
WGWC-23	823.80	30.47	793.33
WGWC-24	804.80	12.81	791.99
WGWC-25	808.98	16.93	792.05
<i>Piezometer</i>			
PZ-01	856.72	38.77	817.95
PZ-04	889.01	13.38	875.63
PZ-06	915.15	20.51	894.64
PZ-08	867.29	31.14	836.15
PZ-10	832.02	27.33	804.69
PZ-11	823.09	21.56	801.53
PZ-12	818.74	27.69	791.05
PZ-15	826.86	29.68	797.18
PZ-16	800.70	11.16	789.54
PZ-17	831.01	37.25	793.76
PZ-18	814.51	16.15	798.36
PZ-20	787.30	14.59	772.71
PZ-23D	834.32	49.37	784.95
PZ-26D	804.93	14.04	790.89
PZ-27D	809.28	19.71	789.57
PZ-28	816.18	28.84	787.34
PZ-29S	805.30	22.72	782.58
PZ-29D	805.24	24.86	780.38
<i>Characterization Monitoring Well</i>			
WAMW-1	782.66	20.37	762.29
WAMW-2	770.82	13.17	757.65

Notes:

ft = feet

ft BTOC = feet below top of casing

(1) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey of WGWA-1 through WGWA-18, WGWC-8 through WGWC-19, WAMW-1 and WAMW-2, and PZ-01 through PZ-20 was completed by GEL Solutions and certified June 16, 2020. Survey of WGWC-20 through WGWC-25, and PZ-23D through PZ-29D was completed by GEL Solutions and certified on November 17, 2020.

Table 4
Horizontal Groundwater Gradient and Flow Velocity Calculations
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

February 28, 2022				
Flow Path Direction	h₁ (ft)	h₂ (ft)	L (ft)	i (ft/ft)
PZ-01 to WGWC-17	817.95	786.32	373	0.085
PZ-10 to WGWC-19	804.69	763.77	446	0.092

February 28, 2022					
Flow Path Direction	K_h (ft/day)	n_e	i (ft/ft)	V (ft/day) ⁽¹⁾	V (ft/day) ⁽²⁾
PZ-01 to WGWC-17	0.27	0.25	0.085	0.092	0.095
PZ-10 to WGWC-19	0.27	0.25	0.092	0.099	

Notes:

ft = feet

ft/day = feet per day

ft/ft = feet per foot

h₁, h₂ = groundwater elevation at location 1 and location 2

L = distance between location 1 and 2

i = $h_1 - h_2 / L$ = horizontal hydraulic gradient

K_h = horizontal hydraulic conductivity

n_e = effective porosity

V = groundwater flow velocity

(1) Groundwater flow velocity equation: $V = [K_h * i] / n_e$

(2) Average groundwater flow velocity for unit.

Table 5
 Summary of Groundwater Analytical Data
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

	Well ID:	WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10	WGWC-11	WGWC-12
	Sample Date:	3/1/2022	3/1/2022	3/1/2022	2/28/2022	3/1/2022	3/1/2022	3/3/2022	3/3/2022	3/3/2022	3/3/2022	3/3/2022	3/3/2022	3/3/2022
	Constituent ^(1,2)													
Appendix III	Boron	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	0.10	2.7	0.62	<0.060	<0.060	<0.060
	Calcium	1.1	13	1.6	14	2.1	22	1.4	6.1	88	8.6	7.1	1.3	12
	Chloride	4.1	2.7	1.8	1.2	1.5	1.5	2.1	2.0	130	3.5	1.6	3.6	3.2
	Fluoride	<0.026	0.058 J	<0.026	0.083 J	<0.026	0.063 J	0.038 J	0.078 J	0.19	1.0	0.067 J	0.055 J	0.068 J
	pH ⁽³⁾	5.32	6.20	5.59	7.14	5.47	7.86	5.49	5.94	5.21	5.86	6.36	5.59	6.79
	Sulfate	<0.76	1.6	0.98 J	8.4	0.99 J	9.2	<0.76	8.5	250	58	2.0	2.3	14
	TDS	30	92	31	95	23	140	17	43	530	140	45	21	89
Appendix IV	Antimony	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051	0.0080	<0.00051	<0.00051	<0.00051
	Arsenic	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	<0.00028	0.0014	<0.00028	<0.00028	<0.00028	0.00037 J
	Barium	0.047	0.020	0.014	0.0053 J	0.017	0.0071 J	0.012	0.013	<0.0031	<0.0031	0.033	0.040	0.016
	Beryllium	<0.00027	<0.00027	<0.00027	<0.00027	<0.00027	<0.00027	<0.00027	<0.00027	0.0027	0.00036 J	<0.00027	<0.00027	<0.00027
	Cadmium	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022
	Chromium	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	0.0023	<0.0015	<0.0015
	Cobalt	0.00073 J	0.00038 J	<0.00026	<0.00026	0.0014 J	<0.00026	<0.00026	0.0014 J	0.00030 J	<0.00026	0.00045 J	0.00026 J	0.00056 J
	Fluoride	<0.026	0.058 J	<0.026	0.083 J	<0.026	0.063 J	0.038 J	0.078 J	0.19	1.0	0.067 J	0.055 J	0.068 J
	Lead	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	0.00052 J	<0.00017	0.00025 J	<0.00017	0.00033 J
	Lithium	0.0029 J	0.0085	<0.00083	0.0050	<0.00083	0.0060	<0.00083	<0.00083	0.014	0.030	0.0038 J	<0.00083	0.0061
	Mercury	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013
	Molybdenum	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	0.0027 J	<0.00061	<0.00061	<0.00061
	Comb. Radium 226/228	-0.0398 U	-0.141 U	0.238 U	1.30	0.428 U	9.86	0.415	0.474	3.18	0.431 U	0.587	0.622	0.408
	Selenium	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	0.0038 J	0.0021 J	<0.00074	<0.00074	<0.00074
Thallium	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	

Notes:

-- = Parameter was not analyzed

TDS = total dissolved solids

J = Indicates the parameter was estimated and detected between the method detection limit (MDL) and the reporting limit (RL)

< = Indicates the parameter was not detected above the analytical MDL

U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)

(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L).

(2) Metals were analyzed by EPA Method 6020B and Method 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM 2540C, and combined radium by EPA Methods 9315/9320.

(3) The pH value presented was recorded at the time of sample collection in the field.

Table 5
 Summary of Groundwater Analytical Data
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

	Well ID:	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-20	WGWC-20	WGWC-21	WGWC-21	WGWC-21
	Sample Date:	3/3/2022	3/3/2022	3/3/2022	3/3/2022	3/4/2022	3/3/2022	1/12/2022	3/4/2022	6/7/2022	1/11/2022	3/3/2022	6/6/2022
	Constituent ^(1,2)												
Appendix III	Boron	<0.060	<0.060	<0.060	0.79	<0.060	<0.060	4.9	4.3	2.8	0.12	0.12	0.13
	Calcium	3.4	0.65	28	24	5.3	12	220	200	140	57	54	58
	Chloride	1.0	2.4	1.4	42	1.3	3.2	350	330	180	44	45	48
	Fluoride	0.21	0.057 J	0.88	0.067 J	0.060 J	0.40	1.8	2.0	2.5	1.9	1.8	1.9
	pH ⁽³⁾	6.31	5.40	7.61	5.22	6.21	6.69	5.19	5.23	5.39	6.68	6.88	6.69
	Sulfate	3.0	1.3	18	57	3.6	4.8	360	390	280	260	250	140
	TDS	71	17	140	170	55	98	1200	1100	920	580	580	670
Appendix IV	Antimony	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051	<0.00051	0.00066 J	0.0011 J	<0.00051	<0.00038	0.00053 J	<0.00051
	Arsenic	<0.00028	<0.00028	0.00057 J	<0.00028	<0.00028	<0.00028	0.00052 J	0.00078 J	0.00033 J	0.00036 J	0.00053 J	0.00083 J
	Barium	0.045	0.029	0.029	0.041	0.011	<0.0031	<0.0016	<0.0031	<0.0031	0.0076 J	0.0068 J	0.0079 J
	Beryllium	<0.00027	<0.00027	<0.00027	<0.00027	<0.00027	<0.00027	0.012	0.010	0.0089	<0.00018	<0.00027	<0.00027
	Cadmium	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022	0.00026 J	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022
	Chromium	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	Cobalt	<0.00026	0.0024 J	<0.00026	<0.00026	0.00026 J	0.00034 J	0.00037 J	<0.00026	<0.00026	0.00032 J	0.00042 J	0.0010 J
	Fluoride	0.21	0.057 J	0.88	0.067 J	0.060 J	0.40	1.8	2.0	2.5	1.9	1.8	1.9
	Lead	0.00023 J	0.00057 J	<0.00017	<0.00017	<0.00017	0.00030 J	<0.00013	<0.00017	<0.00017	<0.00013	<0.00017	<0.00017
	Lithium	0.0018 J	0.0019 J	0.0068	0.0041 J	0.0042 J	0.057	0.15	0.14	0.12	0.038	0.044	0.051
	Mercury	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013
	Molybdenum	0.00094 J	<0.00061	0.0025 J	<0.00061	0.0021 J	0.0013 J	0.00062 J	<0.00061	<0.00061	0.037	0.036	0.032
	Comb. Radium 226/228	0.621	0.956	0.358 U	0.573	0.573	0.909	1.09	0.925	0.670	0.919	1.31	2.61
	Selenium	<0.00074	<0.00074	<0.00074	0.0018 J	<0.00074	<0.00074	<0.0015	0.0014 J	0.0014 J	<0.0015	<0.00074	<0.00074
Thallium	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	<0.00015	<0.00047	<0.00047	<0.00015	<0.00047	

Table 5
 Summary of Groundwater Analytical Data
 Plant Wansley AP-1, Heard and Carroll Counties, Georgia

	Well ID:	WGWC-22	WGWC-22	WGWC-22	WGWC-23	WGWC-23	WGWC-23	WGWC-24	WGWC-24	WGWC-24	WGWC-25	WGWC-25	WGWC-25
	Sample Date:	1/11/2022	3/4/2022	6/7/2022	1/11/2022	3/4/2022	6/6/2022	1/11/2022	3/3/2022	6/6/2022	1/11/2022	3/4/2022	6/7/2022
	Constituent ^(1,2)												
Appendix III	Boron	0.39	0.41	0.39	0.048 J	<0.060	<0.060	1.7	1.6	0.64	0.87	0.72	0.78
	Calcium	32	31	19	3.1	4.0	4.5	51	42	22	16	16	15
	Chloride	5.1	5.3	4.3	2.9	2.9	3.1	60	50	41	75	79	79
	Fluoride	0.45	0.42	0.37	0.045 J	0.045 J	0.028 J	1.0	0.71	0.43	0.028 J	0.038 J	<0.019
	pH ⁽³⁾	5.40	5.34	5.41	5.61	5.74	5.73	4.39	4.39	4.52	5.26	5.21	5.32
	Sulfate	140	150	96	5.3	5.0	5.3	160	130	67	21	21	22
	TDS	270	260	210	67	69	90	320	280	210	220	200	240
Appendix IV	Antimony	0.00078 J	0.00082 J	0.00054 J	0.0012 J	0.0018 J	0.0013 J	<0.00038	<0.00051	<0.00051	<0.00038	<0.00051	<0.00051
	Arsenic	<0.00031	0.00046 J	0.00029 J	<0.00031	<0.00028	<0.00028	0.0017	0.0029	0.00054 J	<0.00031	<0.00028	<0.00028
	Barium	0.040	0.038	0.025	0.0072 J	0.0081 J	0.0097 J	0.029	0.028	0.032	0.38	0.38	0.34
	Beryllium	0.00057 J	0.00066 J	0.00055 J	0.0012 J	0.00097 J	0.0011 J	0.014	0.010	0.0062	0.00020 J	<0.00027	0.00030 J
	Cadmium	<0.00022	0.00025 J	<0.00022	<0.00022	<0.00022	<0.00022	0.00040 J	0.00030 J	0.00030 J	<0.00022	<0.00022	<0.00022
	Chromium	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
	Cobalt	0.00025 J	0.00034 J	<0.00026	0.00016 J	<0.00026	<0.00026	0.11	0.086	0.042	0.0048	0.0040	0.0043
	Fluoride	0.45	0.42	0.37	0.045 J	0.045 J	0.028 J	1.0	0.71	0.43	0.028 J	0.038 J	<0.019
	Lead	0.00023 J	0.00036 J	<0.00017	<0.00013	<0.00017	<0.00017	0.00082 J	0.00076 J	0.00047 J	<0.00013	<0.00017	<0.0017
	Lithium	0.011	0.011	0.0093	<0.0034	0.0015 J	0.0020 J	0.0091	0.0066	0.0044 J	0.0043 J	0.0035 J	0.0040 J
	Mercury	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013
	Molybdenum	<0.00061	0.00084 J	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061	<0.00061
	Comb. Radium 226/228	6.91	7.57	4.67	0.218 U	0.437 U	1.45	0.749	0.893	0.845	0.219 U	0.818	0.500
	Selenium	0.0065	0.0072	0.0047 J	0.0024 J	0.0020 J	0.0018 J	<0.0015	0.00077 J	<0.00074	<0.0015	<0.00074	<0.00074
Thallium	<0.00015	0.00047 J	<0.00047	<0.00015	<0.00047	<0.00047	0.00062 J	0.00060 J	0.00052 J	<0.00015	<0.00047	<0.00047	

Table 6
Summary of Background Concentrations and Groundwater Protection Standards
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Constituent	Units	MCL	CCR-Rule Specified ⁽¹⁾	Background Limit ⁽²⁾	GWPS ⁽³⁾
Antimony	mg/L	0.006		0.0022	0.006
Arsenic	mg/L	0.01		0.0014	0.01
Barium	mg/L	2		0.062	2
Beryllium	mg/L	0.004		0.0025	0.004
Cadmium	mg/L	0.005		0.0025	0.005
Chromium	mg/L	0.1		0.0049	0.1
Cobalt	mg/L	N/A	0.006	0.013	0.013 ⁽³⁾
Fluoride	mg/L	4		0.284	4
Lead	mg/L	N/A	0.015	0.001	0.015 ⁽³⁾
Lithium	mg/L	N/A	0.04	0.009	0.04 ⁽³⁾
Mercury	mg/L	0.002		0.0002	0.002
Molybdenum	mg/L	N/A	0.100	0.015	0.1 ⁽³⁾
Selenium	mg/L	0.05		0.005	0.05
Thallium	mg/L	0.002		0.001	0.002
Combined Radium-226/228	pCi/L	5		10.4	10.4

Notes:

mg/L = milligrams per liter

pCi/L = picocuries per liter

MCL = Maximum Contaminant Level

CCR = Coal Combustion Residual

GWPS = Groundwater Protection Standard

N/A = Not Applicable

(1) On February 22, 2022, the Georgia Environmental Protection Division (GA EPD) adopted the federally promulgated GWPS for cobalt, lithium, lead, and molybdenum.

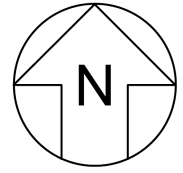
(2) The background limits were used when determining the GWPS under 40 CFR 257.95(h) and GA EPD Rule 391-3-4-.10(6)(a).

(3) Under 40 CFR 257.95(h)(1-3) the GWPS is: (i) the maximum contaminant level (MCL) established under § 141.62 and § 141.66 of this title; (ii) where an MCL has not been established a rule-specific GWPS; or (iii) background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

FIGURES



2022 Semianual Groundwater Monitoring and Corrective Action Report - Plant Wansley, Ash Pond 1 (AP-1)

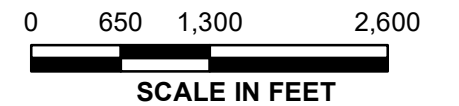


Legend

- Approximate Property Boundary
- Approximate AP-1 Boundary



Notes:
 Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, June 2018.



SITE LOCATION MAP

GEORGIA POWER COMPANY
 PLANT WANSLEY AP-1
 HEARD AND CARROLL COUNTIES, GEORGIA

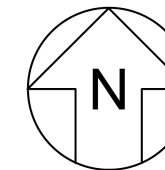
Prepared For: Georgia Power

Prepared By: Geosyntec
 consultants





KENNESAW, GA

AUGUST 2022

**FIGURE
 1**



LEGEND

-  Compliance Monitoring Well
-  Characterization Monitoring Well
-  Piezometer
-  Approximate AP-1 Boundary

Notes:
 1. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, January 10, 2022.
 2. Service Layer Credits for surrounding area: 2020-04-05 Worldview Satellite imagery. Purchased from Harris Geospatial.



GROUNDWATER MONITORING WELL NETWORK MAP

GEORGIA POWER COMPANY
 PLANT WANSLEY AP-1
 HEARD AND CARROLL COUNTIES, GEORGIA

Prepared For:  Georgia Power

Prepared By:  Geosyntec consultants

KENNESAW, GA

AUGUST 2022

FIGURE 2

APPENDIX A

Well Maintenance and Repair Documentation Memorandum



ATLANTIC COAST
CONSULTING, INC.

1150 Northmeadow Parkway
Suite 100
Roswell GA 30076
(770) 594-5998
www.atlcc.net

MEMORANDUM

Date: June 28, 2022
To: Kristen Jurinko – Southern Company Services
From: Atlantic Coast Consulting
Subject: Plant Wansley Ash Pond - Well Maintenance and Repair Documentation
Georgia Power Company

Atlantic Coast Consulting (ACC) has prepared this memorandum to provide documentation of any groundwater monitoring well maintenance and/or repair performed at Plant Wansley during the 2022 Semiannual Groundwater Monitoring reporting period. No repairs or well maintenance were necessary during the reporting period.

Plant Wansley Ash Pond
February 2022 Well Inspection Form

1 - Location/Identification		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant Wansley Ash Pond
February 2022 Well Inspection Form

2 - Protective Outer Casing

		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

3 - Surface Pad		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant Wansley Ash Pond
February 2022 Well Inspection Form

4 - Internal Well Casing		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No	No

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

5 - Sampling (Groundwater Monitoring Wells Only):

		WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
a	Does the well recharge adequately when purged?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	If dedicated sampling equipment is installed, is it in good condition?	Yes	Yes	Yes	Yes	N/A	Yes	N/A	Yes	Yes	N/A	Yes
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	No	No	No	No	No	No	No	No	No	No	No

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

	WGWA-1	WGWA-2	WGWA-3	WGWA-4	WGWA-5	WGWA-6	WGWA-7	WGWA-18	WGWC-8	WGWC-9	WGWC-10
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

Staff: J. Berisford
Date: 2/28/2022

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

1 - Location/Identification		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

2 - Protective Outer Casing		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant Wansley Ash Pond
February 2022 Well Inspection Form

3 - Surface Pad		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Plant Wansley Ash Pond
February 2022 Well Inspection Form

4 - Internal Well Casing		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

5 - Sampling (Groundwater Monitoring Wells Only):

		WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
a	Does the well recharge adequately when purged?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	If dedicated sampling equipment is installed, is it in good condition?	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	No	No	No	No	No	No	No	No	No	No

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

Staff: J. Berisford
Date: 2/28/2022

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

1 - Location/Identification		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

2 - Protective Outer Casing		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

3 - Surface Pad

		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

4 - Internal Well Casing

		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No	No	No

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

5 - Sampling (Groundwater Monitoring Wells Only):

		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
a	Does the well recharge adequately when purged?	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
b	If dedicated sampling equipment is installed, is it in good condition?	Yes	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	No	No	No	No	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

		WGWC-22	WGWC-23	WGWC-24	WGWC-25	PZ-1	PZ-4	PZ-6	PZ-8	PZ-10	PZ-11	PZ-12	PZ-15
	1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

Staff: J. Berisford
Date: 2/28/2022

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

1 - Location/Identification		PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Is the well visible and accessible?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the well properly identified with the correct well ID?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well require protection from traffic?	No	No	No	No	No	No	No	No	No	No	No	No
d	Is the drainage around the well acceptable? (No standing water, nor is well located in obvious drainage flow path)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

2 - Protective Outer Casing		PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Is the protective casing free from apparent damage?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of degradation or deterioration?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the casing have a functioning weep hole?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the annular space between casings filled with pea gravel or sand?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the well locked, and is the lock in good working condition?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

3 - Surface Pad		PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Is the well pad in good condition? (Not cracked or broken)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Does the well pad provide adequate surface seal and stability to the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Is the well pad in complete contact with the protective casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the pad surface clean? (Not covered by soil or debris)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

Plant Wansley Ash Pond
February 2022 Well Inspection Form

4 - Internal Well Casing

		PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Does the well cap prevent entry of foreign material into the well?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
b	Is the casing free of kinks or bends, or any obstruction from foreign objects (such as bailers) ?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
c	Does the well have a venting hole near the top of casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
d	Is the survey point clearly marked on the inner casing?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
e	Is the depth of the well consistent with the original well log?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
f	Does the PVC casing move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction?	No	No	No	No	No	No	No	No	No	No	No	No

**Plant Wansley Ash Pond
February 2022 Well Inspection Form**

5 - Sampling (Groundwater Monitoring Wells Only):

		PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
a	Does the well recharge adequately when purged?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
b	If dedicated sampling equipment is installed, is it in good condition?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
c	Does the well require redevelopment due to slow recharge or turbidity > 10 NTUs?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: N/A - Not Applicable

6 - Based on your professional judgment, is the well construction / location appropriate to:

	PZ-16	PZ-17	PZ-18	PZ-20	PZ-23D	PZ-26D	PZ-27D	PZ-28	PZ-29D	PZ-29S	WAMW-1	WAMW-2
1) achieve the objectives of the facility Groundwater Monitoring Program, and 2) comply with the applicable regulatory requirements?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

7 - Corrective actions completed and Notes:

Staff: J. Berisford
Date: 2/28/2022

NOTE: Form Derived from "Georgia EPD's Groundwater Monitoring Well Integrity Form".

APPENDIX B

Analytical Laboratory Results and Field Sampling Forms

Appendix B1: Laboratory Analytical Data Packages and Data
Validation Reports

Appendix B2: Field Sampling Forms

APPENDIX B1

Analytical Laboratory Data Packages and Data Validation Reports

Laboratory Reports

ANALYTICAL REPORT

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

Laboratory Job ID: 180-132517-1

Client Project/Site: Plant Wansley Ash Pond

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
1/25/2022 7:37:26 PM

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

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

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

PA Lab ID: 02-00416



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Case Narrative

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

Job ID: 180-132517-1

Job ID: 180-132517-1

Laboratory: Eurofins Pittsburgh

Narrative

**Job Narrative
180-132517-1**

Receipt

The samples were received on 1/14/2022 8:00 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 1.2°C, 1.5°C and 1.6°C

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-385392 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals

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

General Chemistry

Method 2540C_Calcd: The following sample(s) was analyzed outside of analytical holding time because they were initially logged in by the Eurofins Savannah location and were not received until 01-18-21.. WGWC-21 (180-132517-2), WGWC-22 (180-132517-3), WGWC-23 (180-132517-4), WGWC-24 (180-132517-5), WGWC-25 (180-132517-6), EB-1 (180-132517-7), FB-1 (180-132517-8) and Dup-1 (180-132517-9).

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 Wansley Ash Pond

Job ID: 180-132517-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

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

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

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 Wansley Ash Pond

Job ID: 180-132517-1

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-22
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	01-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-22
Minnesota	NELAP	042-999-482	12-31-22
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-22
New York	NELAP	11182	04-02-22
North Carolina (WW/SW)	State	434	12-31-22
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21 *
South Carolina	State	89014	04-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-22

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

Sample Summary

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

Job ID: 180-132517-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-132517-1	WGWC-20	Water	01/12/22 12:45	01/14/22 08:00
180-132517-2	WGWC-21	Water	01/11/22 12:57	01/14/22 08:00
180-132517-3	WGWC-22	Water	01/11/22 15:53	01/14/22 08:00
180-132517-4	WGWC-23	Water	01/11/22 14:50	01/14/22 08:00
180-132517-5	WGWC-24	Water	01/11/22 13:35	01/14/22 08:00
180-132517-6	WGWC-25	Water	01/11/22 16:40	01/14/22 08:00
180-132517-7	EB-1	Water	01/11/22 14:30	01/14/22 08:00
180-132517-8	FB-1	Water	01/11/22 14:40	01/14/22 08:00
180-132517-9	Dup-1	Water	01/11/22 13:35	01/14/22 08:00

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Method Summary

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

Job ID: 180-132517-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Lab Chronicle

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

Job ID: 180-132517-1

Client Sample ID: WGWC-20

Lab Sample ID: 180-132517-1

Date Collected: 01/12/22 12:45

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			385392	01/18/22 16:43	JRB	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		10			385392	01/18/22 16:56	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	385737	01/20/22 14:02	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			385876	01/21/22 09:16	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	385582	01/19/22 11:52	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			385703	01/20/22 10:54	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	385537	01/19/22 09:15	JCR	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			385985	01/12/22 12:45	KAR	TAL PIT

Client Sample ID: WGWC-21

Lab Sample ID: 180-132517-2

Date Collected: 01/11/22 12:57

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			385392	01/18/22 17:08	JRB	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		5			385392	01/18/22 17:20	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	385737	01/20/22 14:02	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			385876	01/21/22 09:30	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	385582	01/19/22 11:52	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			385703	01/20/22 10:55	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	385537	01/19/22 09:15	JCR	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			385985	01/11/22 12:57	KAR	TAL PIT

Client Sample ID: WGWC-22

Lab Sample ID: 180-132517-3

Date Collected: 01/11/22 15:53

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			385392	01/18/22 15:54	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	385737	01/20/22 14:02	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			385876	01/21/22 09:34	RSK	TAL PIT

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-132517-1

Client Sample ID: WGWC-22

Lab Sample ID: 180-132517-3

Date Collected: 01/11/22 15:53

Matrix: Water

Date Received: 01/14/22 08:00

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	385582	01/19/22 11:52	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			385703	01/20/22 10:56	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	385537	01/19/22 09:15	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			385985	01/11/22 15:53	KAR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-23

Lab Sample ID: 180-132517-4

Date Collected: 01/11/22 14:50

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			385392	01/18/22 17:58	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	385737	01/20/22 14:02	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			385876	01/21/22 09:38	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	385582	01/19/22 11:52	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			385703	01/20/22 10:57	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	385537	01/19/22 09:15	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			385985	01/11/22 14:50	KAR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-24

Lab Sample ID: 180-132517-5

Date Collected: 01/11/22 13:35

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			385392	01/18/22 18:12	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	385737	01/20/22 14:02	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			385876	01/21/22 09:41	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	385582	01/19/22 11:52	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			385703	01/20/22 10:59	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	385537	01/19/22 09:15	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			385985	01/11/22 13:35	KAR	TAL PIT
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-132517-1

Client Sample ID: WGWC-25

Lab Sample ID: 180-132517-6

Date Collected: 01/11/22 16:40

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			385392	01/18/22 18:26	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	385737	01/20/22 14:02	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			385876	01/21/22 09:45	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	385582	01/19/22 11:52	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			385703	01/20/22 11:00	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	385537	01/19/22 09:15	JCR	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			385985	01/11/22 16:40	KAR	TAL PIT

Client Sample ID: EB-1

Lab Sample ID: 180-132517-7

Date Collected: 01/11/22 14:30

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			385392	01/18/22 18:39	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	385737	01/20/22 14:02	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			385876	01/21/22 09:49	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	385582	01/19/22 11:52	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			385703	01/20/22 11:01	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	385537	01/19/22 09:15	JCR	TAL PIT

Client Sample ID: FB-1

Lab Sample ID: 180-132517-8

Date Collected: 01/11/22 14:40

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			385392	01/18/22 18:53	JRB	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	385737	01/20/22 14:02	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			385876	01/21/22 09:52	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	385582	01/19/22 11:52	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			385703	01/20/22 11:02	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	385537	01/19/22 09:15	JCR	TAL PIT

Lab Chronicle

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

Job ID: 180-132517-1

Client Sample ID: Dup-1

Lab Sample ID: 180-132517-9

Date Collected: 01/11/22 13:35

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			385392	01/18/22 19:07	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	385737	01/20/22 14:02	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			385876	01/21/22 09:56	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	385582	01/19/22 11:52	MM1	TAL PIT
Total/NA	Analysis	EPA 7470A		1			385703	01/20/22 11:03	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	385537	01/19/22 09:15	JCR	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KFS = Kelly Shannon

MM1 = Mary Beth Miller

Batch Type: Analysis

JCR = Jessica Rodgers

JRB = James Burzio

KAR = Kacy Reitnauer

RJR = Ron Rosenbaum

RSK = Robert Kurtz

Client Sample Results

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

Job ID: 180-132517-1

Client Sample ID: WGWC-20

Lab Sample ID: 180-132517-1

Date Collected: 01/12/22 12:45

Matrix: Water

Date Received: 01/14/22 08:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	350		10	7.1	mg/L			01/18/22 16:56	10
Fluoride	1.8		0.10	0.026	mg/L			01/18/22 16:43	1
Sulfate	360		10	7.6	mg/L			01/18/22 16:56	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00066	J	0.0020	0.00038	mg/L		01/20/22 14:02	01/21/22 09:16	1
Arsenic	0.00052	J	0.0010	0.00031	mg/L		01/20/22 14:02	01/21/22 09:16	1
Barium	<0.0016		0.010	0.0016	mg/L		01/20/22 14:02	01/21/22 09:16	1
Beryllium	0.012		0.0025	0.00018	mg/L		01/20/22 14:02	01/21/22 09:16	1
Boron	4.9		0.080	0.039	mg/L		01/20/22 14:02	01/21/22 09:16	1
Cadmium	0.00026	J	0.0025	0.00022	mg/L		01/20/22 14:02	01/21/22 09:16	1
Calcium	220		0.50	0.13	mg/L		01/20/22 14:02	01/21/22 09:16	1
Chromium	<0.0015		0.0020	0.0015	mg/L		01/20/22 14:02	01/21/22 09:16	1
Cobalt	0.00037	J	0.0025	0.00013	mg/L		01/20/22 14:02	01/21/22 09:16	1
Lead	<0.00013		0.0010	0.00013	mg/L		01/20/22 14:02	01/21/22 09:16	1
Lithium	0.15		0.0050	0.0034	mg/L		01/20/22 14:02	01/21/22 09:16	1
Molybdenum	0.00062	J	0.015	0.00061	mg/L		01/20/22 14:02	01/21/22 09:16	1
Selenium	<0.0015		0.0050	0.0015	mg/L		01/20/22 14:02	01/21/22 09:16	1
Thallium	<0.00015		0.0010	0.00015	mg/L		01/20/22 14:02	01/21/22 09:16	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		01/19/22 11:52	01/20/22 10:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10	10	mg/L			01/19/22 09:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.19				SU			01/12/22 12:45	1

Client Sample Results

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

Job ID: 180-132517-1

Client Sample ID: WGWC-21

Lab Sample ID: 180-132517-2

Date Collected: 01/11/22 12:57

Matrix: Water

Date Received: 01/14/22 08:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44		1.0	0.71	mg/L			01/18/22 17:08	1
Fluoride	1.9		0.10	0.026	mg/L			01/18/22 17:08	1
Sulfate	260		5.0	3.8	mg/L			01/18/22 17:20	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		01/20/22 14:02	01/21/22 09:30	1
Arsenic	0.00036	J	0.0010	0.00031	mg/L		01/20/22 14:02	01/21/22 09:30	1
Barium	0.0076	J	0.010	0.0016	mg/L		01/20/22 14:02	01/21/22 09:30	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		01/20/22 14:02	01/21/22 09:30	1
Boron	0.12		0.080	0.039	mg/L		01/20/22 14:02	01/21/22 09:30	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		01/20/22 14:02	01/21/22 09:30	1
Calcium	57		0.50	0.13	mg/L		01/20/22 14:02	01/21/22 09:30	1
Chromium	<0.0015		0.0020	0.0015	mg/L		01/20/22 14:02	01/21/22 09:30	1
Cobalt	0.00032	J	0.0025	0.00013	mg/L		01/20/22 14:02	01/21/22 09:30	1
Lead	<0.00013		0.0010	0.00013	mg/L		01/20/22 14:02	01/21/22 09:30	1
Lithium	0.038		0.0050	0.0034	mg/L		01/20/22 14:02	01/21/22 09:30	1
Molybdenum	0.037		0.015	0.00061	mg/L		01/20/22 14:02	01/21/22 09:30	1
Selenium	<0.0015		0.0050	0.0015	mg/L		01/20/22 14:02	01/21/22 09:30	1
Thallium	<0.00015		0.0010	0.00015	mg/L		01/20/22 14:02	01/21/22 09:30	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		01/19/22 11:52	01/20/22 10:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	580	H	10	10	mg/L			01/19/22 09:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.68				SU			01/11/22 12:57	1

Client Sample Results

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

Job ID: 180-132517-1

Client Sample ID: WGWC-22

Lab Sample ID: 180-132517-3

Date Collected: 01/11/22 15:53

Matrix: Water

Date Received: 01/14/22 08:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.1		1.0	0.71	mg/L			01/18/22 15:54	1
Fluoride	0.45		0.10	0.026	mg/L			01/18/22 15:54	1
Sulfate	140	F1	1.0	0.76	mg/L			01/18/22 15:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00078	J	0.0020	0.00038	mg/L		01/20/22 14:02	01/21/22 09:34	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		01/20/22 14:02	01/21/22 09:34	1
Barium	0.040		0.010	0.0016	mg/L		01/20/22 14:02	01/21/22 09:34	1
Beryllium	0.00057	J	0.0025	0.00018	mg/L		01/20/22 14:02	01/21/22 09:34	1
Boron	0.39		0.080	0.039	mg/L		01/20/22 14:02	01/21/22 09:34	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		01/20/22 14:02	01/21/22 09:34	1
Calcium	32		0.50	0.13	mg/L		01/20/22 14:02	01/21/22 09:34	1
Chromium	<0.0015		0.0020	0.0015	mg/L		01/20/22 14:02	01/21/22 09:34	1
Cobalt	0.00025	J	0.0025	0.00013	mg/L		01/20/22 14:02	01/21/22 09:34	1
Lead	0.00023	J	0.0010	0.00013	mg/L		01/20/22 14:02	01/21/22 09:34	1
Lithium	0.011		0.0050	0.0034	mg/L		01/20/22 14:02	01/21/22 09:34	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		01/20/22 14:02	01/21/22 09:34	1
Selenium	0.0065		0.0050	0.0015	mg/L		01/20/22 14:02	01/21/22 09:34	1
Thallium	<0.00015		0.0010	0.00015	mg/L		01/20/22 14:02	01/21/22 09:34	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		01/19/22 11:52	01/20/22 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	270	H	10	10	mg/L			01/19/22 09:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.40				SU			01/11/22 15:53	1

Client Sample Results

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

Job ID: 180-132517-1

Client Sample ID: WGWC-23

Lab Sample ID: 180-132517-4

Date Collected: 01/11/22 14:50

Matrix: Water

Date Received: 01/14/22 08:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		1.0	0.71	mg/L			01/18/22 17:58	1
Fluoride	0.045	J	0.10	0.026	mg/L			01/18/22 17:58	1
Sulfate	5.3		1.0	0.76	mg/L			01/18/22 17:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0012	J	0.0020	0.00038	mg/L		01/20/22 14:02	01/21/22 09:38	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		01/20/22 14:02	01/21/22 09:38	1
Barium	0.0072	J	0.010	0.0016	mg/L		01/20/22 14:02	01/21/22 09:38	1
Beryllium	0.0012	J	0.0025	0.00018	mg/L		01/20/22 14:02	01/21/22 09:38	1
Boron	0.048	J	0.080	0.039	mg/L		01/20/22 14:02	01/21/22 09:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		01/20/22 14:02	01/21/22 09:38	1
Calcium	3.1		0.50	0.13	mg/L		01/20/22 14:02	01/21/22 09:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		01/20/22 14:02	01/21/22 09:38	1
Cobalt	0.00016	J	0.0025	0.00013	mg/L		01/20/22 14:02	01/21/22 09:38	1
Lead	<0.00013		0.0010	0.00013	mg/L		01/20/22 14:02	01/21/22 09:38	1
Lithium	<0.0034		0.0050	0.0034	mg/L		01/20/22 14:02	01/21/22 09:38	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		01/20/22 14:02	01/21/22 09:38	1
Selenium	0.0024	J	0.0050	0.0015	mg/L		01/20/22 14:02	01/21/22 09:38	1
Thallium	<0.00015		0.0010	0.00015	mg/L		01/20/22 14:02	01/21/22 09:38	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		01/19/22 11:52	01/20/22 10:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	67	H	10	10	mg/L			01/19/22 09:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.61				SU			01/11/22 14:50	1

Client Sample Results

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

Job ID: 180-132517-1

Client Sample ID: WGWC-24

Lab Sample ID: 180-132517-5

Date Collected: 01/11/22 13:35

Matrix: Water

Date Received: 01/14/22 08:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60		1.0	0.71	mg/L			01/18/22 18:12	1
Fluoride	1.0		0.10	0.026	mg/L			01/18/22 18:12	1
Sulfate	160		1.0	0.76	mg/L			01/18/22 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		01/20/22 14:02	01/21/22 09:41	1
Arsenic	0.0017		0.0010	0.00031	mg/L		01/20/22 14:02	01/21/22 09:41	1
Barium	0.029		0.010	0.0016	mg/L		01/20/22 14:02	01/21/22 09:41	1
Beryllium	0.014		0.0025	0.00018	mg/L		01/20/22 14:02	01/21/22 09:41	1
Boron	1.7		0.080	0.039	mg/L		01/20/22 14:02	01/21/22 09:41	1
Cadmium	0.00040	J	0.0025	0.00022	mg/L		01/20/22 14:02	01/21/22 09:41	1
Calcium	51		0.50	0.13	mg/L		01/20/22 14:02	01/21/22 09:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		01/20/22 14:02	01/21/22 09:41	1
Cobalt	0.11		0.0025	0.00013	mg/L		01/20/22 14:02	01/21/22 09:41	1
Lead	0.00082	J	0.0010	0.00013	mg/L		01/20/22 14:02	01/21/22 09:41	1
Lithium	0.0091		0.0050	0.0034	mg/L		01/20/22 14:02	01/21/22 09:41	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		01/20/22 14:02	01/21/22 09:41	1
Selenium	<0.0015		0.0050	0.0015	mg/L		01/20/22 14:02	01/21/22 09:41	1
Thallium	0.00062	J	0.0010	0.00015	mg/L		01/20/22 14:02	01/21/22 09:41	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		01/19/22 11:52	01/20/22 10:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	320	H	10	10	mg/L			01/19/22 09:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.39				SU			01/11/22 13:35	1

Client Sample Results

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

Job ID: 180-132517-1

Client Sample ID: WGWC-25

Lab Sample ID: 180-132517-6

Date Collected: 01/11/22 16:40

Matrix: Water

Date Received: 01/14/22 08:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75		1.0	0.71	mg/L			01/18/22 18:26	1
Fluoride	0.028	J	0.10	0.026	mg/L			01/18/22 18:26	1
Sulfate	21		1.0	0.76	mg/L			01/18/22 18:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		01/20/22 14:02	01/21/22 09:45	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		01/20/22 14:02	01/21/22 09:45	1
Barium	0.38		0.010	0.0016	mg/L		01/20/22 14:02	01/21/22 09:45	1
Beryllium	0.00020	J	0.0025	0.00018	mg/L		01/20/22 14:02	01/21/22 09:45	1
Boron	0.87		0.080	0.039	mg/L		01/20/22 14:02	01/21/22 09:45	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		01/20/22 14:02	01/21/22 09:45	1
Calcium	16		0.50	0.13	mg/L		01/20/22 14:02	01/21/22 09:45	1
Chromium	<0.0015		0.0020	0.0015	mg/L		01/20/22 14:02	01/21/22 09:45	1
Cobalt	0.0048		0.0025	0.00013	mg/L		01/20/22 14:02	01/21/22 09:45	1
Lead	<0.00013		0.0010	0.00013	mg/L		01/20/22 14:02	01/21/22 09:45	1
Lithium	0.0043	J	0.0050	0.0034	mg/L		01/20/22 14:02	01/21/22 09:45	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		01/20/22 14:02	01/21/22 09:45	1
Selenium	<0.0015		0.0050	0.0015	mg/L		01/20/22 14:02	01/21/22 09:45	1
Thallium	<0.00015		0.0010	0.00015	mg/L		01/20/22 14:02	01/21/22 09:45	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		01/19/22 11:52	01/20/22 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220	H	10	10	mg/L			01/19/22 09:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.26				SU			01/11/22 16:40	1

Client Sample Results

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

Job ID: 180-132517-1

Client Sample ID: EB-1

Lab Sample ID: 180-132517-7

Date Collected: 01/11/22 14:30

Matrix: Water

Date Received: 01/14/22 08:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			01/18/22 18:39	1
Fluoride	<0.026		0.10	0.026	mg/L			01/18/22 18:39	1
Sulfate	<0.76		1.0	0.76	mg/L			01/18/22 18:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		01/20/22 14:02	01/21/22 09:49	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		01/20/22 14:02	01/21/22 09:49	1
Barium	0.0024	J	0.010	0.0016	mg/L		01/20/22 14:02	01/21/22 09:49	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		01/20/22 14:02	01/21/22 09:49	1
Boron	0.063	J	0.080	0.039	mg/L		01/20/22 14:02	01/21/22 09:49	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		01/20/22 14:02	01/21/22 09:49	1
Calcium	<0.13		0.50	0.13	mg/L		01/20/22 14:02	01/21/22 09:49	1
Chromium	<0.0015		0.0020	0.0015	mg/L		01/20/22 14:02	01/21/22 09:49	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		01/20/22 14:02	01/21/22 09:49	1
Lead	<0.00013		0.0010	0.00013	mg/L		01/20/22 14:02	01/21/22 09:49	1
Lithium	<0.0034		0.0050	0.0034	mg/L		01/20/22 14:02	01/21/22 09:49	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		01/20/22 14:02	01/21/22 09:49	1
Selenium	<0.0015		0.0050	0.0015	mg/L		01/20/22 14:02	01/21/22 09:49	1
Thallium	<0.00015		0.0010	0.00015	mg/L		01/20/22 14:02	01/21/22 09:49	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		01/19/22 11:52	01/20/22 11:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10	H	10	10	mg/L			01/19/22 09:15	1

Client Sample Results

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

Job ID: 180-132517-1

Client Sample ID: FB-1

Lab Sample ID: 180-132517-8

Date Collected: 01/11/22 14:40

Matrix: Water

Date Received: 01/14/22 08:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			01/18/22 18:53	1
Fluoride	<0.026		0.10	0.026	mg/L			01/18/22 18:53	1
Sulfate	<0.76		1.0	0.76	mg/L			01/18/22 18:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		01/20/22 14:02	01/21/22 09:52	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		01/20/22 14:02	01/21/22 09:52	1
Barium	<0.0016		0.010	0.0016	mg/L		01/20/22 14:02	01/21/22 09:52	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		01/20/22 14:02	01/21/22 09:52	1
Boron	<0.039		0.080	0.039	mg/L		01/20/22 14:02	01/21/22 09:52	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		01/20/22 14:02	01/21/22 09:52	1
Calcium	<0.13		0.50	0.13	mg/L		01/20/22 14:02	01/21/22 09:52	1
Chromium	<0.0015		0.0020	0.0015	mg/L		01/20/22 14:02	01/21/22 09:52	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		01/20/22 14:02	01/21/22 09:52	1
Lead	<0.00013		0.0010	0.00013	mg/L		01/20/22 14:02	01/21/22 09:52	1
Lithium	<0.0034		0.0050	0.0034	mg/L		01/20/22 14:02	01/21/22 09:52	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		01/20/22 14:02	01/21/22 09:52	1
Selenium	<0.0015		0.0050	0.0015	mg/L		01/20/22 14:02	01/21/22 09:52	1
Thallium	<0.00015		0.0010	0.00015	mg/L		01/20/22 14:02	01/21/22 09:52	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		01/19/22 11:52	01/20/22 11:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10	H	10	10	mg/L			01/19/22 09:15	1

Client Sample Results

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

Job ID: 180-132517-1

Client Sample ID: Dup-1

Lab Sample ID: 180-132517-9

Date Collected: 01/11/22 13:35

Matrix: Water

Date Received: 01/14/22 08:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52		1.0	0.71	mg/L			01/18/22 19:07	1
Fluoride	0.87		0.10	0.026	mg/L			01/18/22 19:07	1
Sulfate	140		1.0	0.76	mg/L			01/18/22 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		01/20/22 14:02	01/21/22 09:56	1
Arsenic	0.0018		0.0010	0.00031	mg/L		01/20/22 14:02	01/21/22 09:56	1
Barium	0.030		0.010	0.0016	mg/L		01/20/22 14:02	01/21/22 09:56	1
Beryllium	0.014		0.0025	0.00018	mg/L		01/20/22 14:02	01/21/22 09:56	1
Boron	1.8		0.080	0.039	mg/L		01/20/22 14:02	01/21/22 09:56	1
Cadmium	0.00043	J	0.0025	0.00022	mg/L		01/20/22 14:02	01/21/22 09:56	1
Calcium	53		0.50	0.13	mg/L		01/20/22 14:02	01/21/22 09:56	1
Chromium	<0.0015		0.0020	0.0015	mg/L		01/20/22 14:02	01/21/22 09:56	1
Cobalt	0.11		0.0025	0.00013	mg/L		01/20/22 14:02	01/21/22 09:56	1
Lead	0.00079	J	0.0010	0.00013	mg/L		01/20/22 14:02	01/21/22 09:56	1
Lithium	0.0091		0.0050	0.0034	mg/L		01/20/22 14:02	01/21/22 09:56	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		01/20/22 14:02	01/21/22 09:56	1
Selenium	<0.0015		0.0050	0.0015	mg/L		01/20/22 14:02	01/21/22 09:56	1
Thallium	0.00060	J	0.0010	0.00015	mg/L		01/20/22 14:02	01/21/22 09:56	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		01/19/22 11:52	01/20/22 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	340	H	10	10	mg/L			01/19/22 09:15	1

QC Sample Results

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

Job ID: 180-132517-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-385392/7
Matrix: Water
Analysis Batch: 385392

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			01/18/22 13:31	1
Fluoride	<0.026		0.10	0.026	mg/L			01/18/22 13:31	1
Sulfate	<0.76		1.0	0.76	mg/L			01/18/22 13:31	1

Lab Sample ID: LCS 180-385392/5
Matrix: Water
Analysis Batch: 385392

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	46.8		mg/L		94	90 - 110
Fluoride	2.50	2.49		mg/L		100	90 - 110
Sulfate	50.0	46.7		mg/L		93	90 - 110

Lab Sample ID: 180-132517-3 MS
Matrix: Water
Analysis Batch: 385392

Client Sample ID: WGWC-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.1		50.0	55.0		mg/L		100	90 - 110
Fluoride	0.45		2.50	3.02		mg/L		103	90 - 110
Sulfate	140	F1	50.0	180	F1	mg/L		85	90 - 110

Lab Sample ID: 180-132517-3 MSD
Matrix: Water
Analysis Batch: 385392

Client Sample ID: WGWC-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.1		50.0	54.6		mg/L		99	90 - 110	1	20
Fluoride	0.45		2.50	3.01		mg/L		102	90 - 110	1	20
Sulfate	140	F1	50.0	178	F1	mg/L		83	90 - 110	1	20

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

Lab Sample ID: MB 180-385737/1-A
Matrix: Water
Analysis Batch: 385876

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 385737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0020	0.00038	mg/L		01/20/22 14:02	01/21/22 09:01	1
Arsenic	<0.00031		0.0010	0.00031	mg/L		01/20/22 14:02	01/21/22 09:01	1
Barium	<0.0016		0.010	0.0016	mg/L		01/20/22 14:02	01/21/22 09:01	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		01/20/22 14:02	01/21/22 09:01	1
Boron	<0.039		0.080	0.039	mg/L		01/20/22 14:02	01/21/22 09:01	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		01/20/22 14:02	01/21/22 09:01	1
Calcium	<0.13		0.50	0.13	mg/L		01/20/22 14:02	01/21/22 09:01	1
Chromium	<0.0015		0.0020	0.0015	mg/L		01/20/22 14:02	01/21/22 09:01	1
Cobalt	<0.00013		0.0025	0.00013	mg/L		01/20/22 14:02	01/21/22 09:01	1
Lead	<0.00013		0.0010	0.00013	mg/L		01/20/22 14:02	01/21/22 09:01	1
Lithium	<0.0034		0.0050	0.0034	mg/L		01/20/22 14:02	01/21/22 09:01	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		01/20/22 14:02	01/21/22 09:01	1

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QC Sample Results

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

Job ID: 180-132517-1

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

Lab Sample ID: MB 180-385737/1-A
Matrix: Water
Analysis Batch: 385876

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 385737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0015		0.0050	0.0015	mg/L		01/20/22 14:02	01/21/22 09:01	1
Thallium	<0.00015		0.0010	0.00015	mg/L		01/20/22 14:02	01/21/22 09:01	1

Lab Sample ID: LCS 180-385737/2-A
Matrix: Water
Analysis Batch: 385876

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 385737

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.241		mg/L		97	80 - 120
Arsenic	1.00	0.983		mg/L		98	80 - 120
Barium	1.00	0.988		mg/L		99	80 - 120
Beryllium	0.500	0.506		mg/L		101	80 - 120
Boron	1.25	1.12		mg/L		89	80 - 120
Cadmium	0.500	0.502		mg/L		100	80 - 120
Calcium	25.0	25.1		mg/L		100	80 - 120
Chromium	0.500	0.501		mg/L		100	80 - 120
Cobalt	0.500	0.495		mg/L		99	80 - 120
Lead	0.500	0.496		mg/L		99	80 - 120
Lithium	0.500	0.472		mg/L		94	80 - 120
Molybdenum	0.500	0.501		mg/L		100	80 - 120
Selenium	1.00	0.978		mg/L		98	80 - 120
Thallium	1.00	1.05		mg/L		105	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-385582/1-A
Matrix: Water
Analysis Batch: 385703

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		01/19/22 11:52	01/20/22 10:44	1

Lab Sample ID: LCS 180-385582/2-A
Matrix: Water
Analysis Batch: 385703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00249		mg/L		100	80 - 120

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

Lab Sample ID: MB 180-385537/2
Matrix: Water
Analysis Batch: 385537

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			01/19/22 09:15	1

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QC Sample Results

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

Job ID: 180-132517-1

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

Lab Sample ID: LCS 180-385537/1
Matrix: Water
Analysis Batch: 385537

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	150	160		mg/L		107	85 - 115

Lab Sample ID: 180-132517-9 DU
Matrix: Water
Analysis Batch: 385537

Client Sample ID: Dup-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	340	H	332		mg/L		0.9	10

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

QC Association Summary

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

Job ID: 180-132517-1

HPLC/IC

Analysis Batch: 385392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132517-1	WGWC-20	Total/NA	Water	EPA 300.0 R2.1	
180-132517-1	WGWC-20	Total/NA	Water	EPA 300.0 R2.1	
180-132517-2	WGWC-21	Total/NA	Water	EPA 300.0 R2.1	
180-132517-2	WGWC-21	Total/NA	Water	EPA 300.0 R2.1	
180-132517-3	WGWC-22	Total/NA	Water	EPA 300.0 R2.1	
180-132517-4	WGWC-23	Total/NA	Water	EPA 300.0 R2.1	
180-132517-5	WGWC-24	Total/NA	Water	EPA 300.0 R2.1	
180-132517-6	WGWC-25	Total/NA	Water	EPA 300.0 R2.1	
180-132517-7	EB-1	Total/NA	Water	EPA 300.0 R2.1	
180-132517-8	FB-1	Total/NA	Water	EPA 300.0 R2.1	
180-132517-9	Dup-1	Total/NA	Water	EPA 300.0 R2.1	
MB 180-385392/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-385392/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-132517-3 MS	WGWC-22	Total/NA	Water	EPA 300.0 R2.1	
180-132517-3 MSD	WGWC-22	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 385582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132517-1	WGWC-20	Total/NA	Water	7470A	
180-132517-2	WGWC-21	Total/NA	Water	7470A	
180-132517-3	WGWC-22	Total/NA	Water	7470A	
180-132517-4	WGWC-23	Total/NA	Water	7470A	
180-132517-5	WGWC-24	Total/NA	Water	7470A	
180-132517-6	WGWC-25	Total/NA	Water	7470A	
180-132517-7	EB-1	Total/NA	Water	7470A	
180-132517-8	FB-1	Total/NA	Water	7470A	
180-132517-9	Dup-1	Total/NA	Water	7470A	
MB 180-385582/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-385582/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 385703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132517-1	WGWC-20	Total/NA	Water	EPA 7470A	385582
180-132517-2	WGWC-21	Total/NA	Water	EPA 7470A	385582
180-132517-3	WGWC-22	Total/NA	Water	EPA 7470A	385582
180-132517-4	WGWC-23	Total/NA	Water	EPA 7470A	385582
180-132517-5	WGWC-24	Total/NA	Water	EPA 7470A	385582
180-132517-6	WGWC-25	Total/NA	Water	EPA 7470A	385582
180-132517-7	EB-1	Total/NA	Water	EPA 7470A	385582
180-132517-8	FB-1	Total/NA	Water	EPA 7470A	385582
180-132517-9	Dup-1	Total/NA	Water	EPA 7470A	385582
MB 180-385582/1-A	Method Blank	Total/NA	Water	EPA 7470A	385582
LCS 180-385582/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	385582

Prep Batch: 385737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132517-1	WGWC-20	Total Recoverable	Water	3005A	
180-132517-2	WGWC-21	Total Recoverable	Water	3005A	
180-132517-3	WGWC-22	Total Recoverable	Water	3005A	

Eurofins Pittsburgh

QC Association Summary

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

Job ID: 180-132517-1

Metals (Continued)

Prep Batch: 385737 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132517-4	WGWC-23	Total Recoverable	Water	3005A	
180-132517-5	WGWC-24	Total Recoverable	Water	3005A	
180-132517-6	WGWC-25	Total Recoverable	Water	3005A	
180-132517-7	EB-1	Total Recoverable	Water	3005A	
180-132517-8	FB-1	Total Recoverable	Water	3005A	
180-132517-9	Dup-1	Total Recoverable	Water	3005A	
MB 180-385737/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-385737/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 385876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132517-1	WGWC-20	Total Recoverable	Water	EPA 6020B	385737
180-132517-2	WGWC-21	Total Recoverable	Water	EPA 6020B	385737
180-132517-3	WGWC-22	Total Recoverable	Water	EPA 6020B	385737
180-132517-4	WGWC-23	Total Recoverable	Water	EPA 6020B	385737
180-132517-5	WGWC-24	Total Recoverable	Water	EPA 6020B	385737
180-132517-6	WGWC-25	Total Recoverable	Water	EPA 6020B	385737
180-132517-7	EB-1	Total Recoverable	Water	EPA 6020B	385737
180-132517-8	FB-1	Total Recoverable	Water	EPA 6020B	385737
180-132517-9	Dup-1	Total Recoverable	Water	EPA 6020B	385737
MB 180-385737/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	385737
LCS 180-385737/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	385737

General Chemistry

Analysis Batch: 385537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132517-1	WGWC-20	Total/NA	Water	SM 2540C	
180-132517-2	WGWC-21	Total/NA	Water	SM 2540C	
180-132517-3	WGWC-22	Total/NA	Water	SM 2540C	
180-132517-4	WGWC-23	Total/NA	Water	SM 2540C	
180-132517-5	WGWC-24	Total/NA	Water	SM 2540C	
180-132517-6	WGWC-25	Total/NA	Water	SM 2540C	
180-132517-7	EB-1	Total/NA	Water	SM 2540C	
180-132517-8	FB-1	Total/NA	Water	SM 2540C	
180-132517-9	Dup-1	Total/NA	Water	SM 2540C	
MB 180-385537/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-385537/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-132517-9 DU	Dup-1	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 385985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132517-1	WGWC-20	Total/NA	Water	Field Sampling	
180-132517-2	WGWC-21	Total/NA	Water	Field Sampling	
180-132517-3	WGWC-22	Total/NA	Water	Field Sampling	
180-132517-4	WGWC-23	Total/NA	Water	Field Sampling	
180-132517-5	WGWC-24	Total/NA	Water	Field Sampling	
180-132517-6	WGWC-25	Total/NA	Water	Field Sampling	

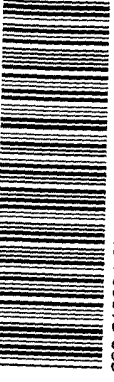
Eurofins Pittsburgh

Environment Testing
America

Chain of Custody Record 244- ATLANTA

Lab P/N: Brown, Shall
E-Mail: shall.brown@eurofinset.com
Sampler: H. A. J. Bensford
Phone: 770-594-5998
GOC No:
Page:
Job #:

Center Tracking No(s):
Analysis Requested:
Preservation Codes:
M - Hexane
N - None
O - AsNaO2
P - Na2OAS
Q - Na2SC3
R - Na2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)



Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	App III Metals, B, Ca	Cl, F, SO4 & TDS (EPA 300 & SM 2540C)	App IV Metals (EPA 60207A)	Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti	Radium 226 & 228 (SW-846 9316/9320)	Preservation Code	pH
WGWC-20	1-12-22	1245	G	Water	N	N	✓	✓	✓	✓	✓	4	5.19
WGWC-21	1-11-22	1257	G	Water	N	N	✓	✓	✓	✓	✓	4	6.68
WGWC-22	1-11-22	1553	G	Water	N	N	✓	✓	✓	✓	✓	4	5.40
WGWC-23	1-11-22	1450	G	Water	N	N	✓	✓	✓	✓	✓	4	5.61
WGWC-24	1-11-22	1335	G	Water	N	N	✓	✓	✓	✓	✓	4	4.39
WGWC-25	1-11-22	1640	G	Water	N	N	✓	✓	✓	✓	✓	6	5.26
EB-1	1-11-22	1430	G	Water	N	N	✓	✓	✓	✓	✓	4	
FB-1	1-11-22	1440	G	Water	N	N	✓	✓	✓	✓	✓	4	
Dup-1	1-11-22	1335	G	Water	N	N	✓	✓	✓	✓	✓	4	
			G	Water	N	N	✓	✓	✓	✓	✓	4	
			G	Water	N	N	✓	✓	✓	✓	✓	4	

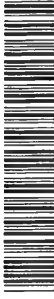
Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested I, II, III, IV Other (specify)
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 1-13-22/1122 Company: ACC
 Relinquished by: _____ Date/Time: 1/13/22 16:24 Company: _____
 Relinquished by: _____ Date/Time: 1/11/22 0800 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

Received by: _____ Date/Time: 1/13/22 11:22 Company: _____
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: 1/11/22 0800 Company: _____
 Cooler Temperature(s) °C and Other Remarks: 1.0 - 1.7 1.0 - 1.6 0.8 - 1.4
 Seal No. _____

Chain of Custody Record



Environment Testing
 America



Client Information (Sub Contract Lab)		Lab PM	Brown, Shali	Carrier Tracking No(s)	COC No 680-680886-1
Client Contact		E-Mail	Shali.Brown@Eurofins.com	State of Origin	Georgia
Shipping/Receiving		Page 1 of 2			
Company		Job # 680-210064-1			
TestAmerica Laboratories, Inc		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)			
Address 13715 Rider Trail North,		Accreditations Required (See note)			
City Earth City		Analysis Requested			
State/Zip MO, 63045		Total Number of Containers			
Phone 314-298-8566(Tel) 314-298-8757(Fax)		Field Filtered Sample (Yes or No)			
Email		Perform M/MSD (Yes or No)			
Project Name CCR - Plant Wansley Ash Pond		Special Instructions/Note:			
Site Wansley CCR		9320_Ra226/PreSep_0 Radium 228			
		9315_Ra226/PreSep_21 Radium 226			
Sample Identification - Client ID (Lab ID)					
WGWC-20 (680-210064-1)	Sample Date 1/11/22	Sample Time 12:45 Eastern	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT=TISSUE, AS=AP)	Preservation Code:
WGWC-21 (680-210064-2)	1/11/22	12:57 Eastern	Water	Water	X
WGWC-22 (680-210064-3)	1/11/22	15:53 Eastern	Water	Water	X
WGWC-23 (680-210064-4)	1/11/22	14:50 Eastern	Water	Water	X
WGWC-24 (680-210064-5)	1/11/22	13:35 Eastern	Water	Water	X
WGWC-25 (680-210064-6)	1/11/22	16:40 Eastern	Water	Water	X
EB-1 (680-210064-7)	1/11/22	14:30 Eastern	Water	Water	X
FB-1 (680-210064-8)	1/11/22	14:40 Eastern	Water	Water	X
Dup-1 (680-210064-9)	1/11/22	13:35 Eastern	Water	Water	X
<p>Note: Since laboratory accreditations are subject to change, Eurofins Southeast 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 Southeast laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Southeast attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Southeast.</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: 1/11/22 Company: FEDEX					
Relinquished by _____ Date: 10:00 Company: FEDEX					
Relinquished by _____ Date: _____ Company: _____					
Custody Seals Intact: _____ Custody Seal No.: _____					
Cooler Temperature(s) °C and Other Remarks					



Client Information (Sub Contract Lab)		Lab PM Brown, Shali		Carrier Tracking No(s) 680-680886 2	
Client Contact Shipping/Receiving		E-Mail Shali.Brown@Eurofins.com		Page Page 2 of 2	
Company TestAmerica Laboratories, Inc.		Accreditations Required (See note)		Job # 680-210064-1	
Address 13715 Rider Trail North,		Due Date Requested: 1/27/2022		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 L - EDTA Z - other (specify) Other:	
City Earth City	TAT Requested (days):	Analysis Requested			
State/Zip MO, 63045	PO #				
Phone 314-298-8566(Tel) 314-298-8757(Fax)	WO #				
Email	Project # 18019922				
Project Name CCR - Plant Wansley Ash Pond	SSOW#				
Site Wansley CCR	Sample Date 1/11/22	Sample Time Eastern	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=BIOSUR, AS=AS)	Preservation Code: Water
Sample Identification - Client ID (Lab ID) Extra Rad (680-210064-10)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9320_Ra226/PreSep_0 Radium 228	9315_Ra226/PreSep_21 Radium 226	Total Number of containers 2
Special Instructions/Note:					
<p>Note: Since laboratory accreditations are subject to change, Eurofins Southeast 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 Southeast laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Southeast attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Southeast.</p>					
<p>Possible Hazard Identification Unconfirmed 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>					
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2					
Empty Kit Relinquished by		Date		Time	
Relinquished by <i>KS</i>		Date		Method of Shipment	
Relinquished by <i>KS</i>		Date		Date/Time	
Relinquished by		Date		Date/Time	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks	

Chain of Custody Record



680-210064 Chain of Custody

Environment Testing
America

Client Information (Sub Contract Lab)	Sampler: Brown, Shali	Lab PM: Brown, Shali
Client Contact Shipping/Receiving	Phone:	E-Mail: Shali.Brown@Eurofinset.com

Company: Eurofins Environment Testing Northeast	Accreditations Required (See note):	Job #: 680-210064-1
--	-------------------------------------	------------------------

Address: 301 Alpha Drive, RIDC Park, City: Pittsburgh State, Zip: PA, 15238 Phone: 412-963-7068(Tel) 412-963-2468(Fax) Email:	Due Date Requested: 1/27/2022 TAT Requested (days):	Analysis Requested										Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other:						
Project Name: CCR - Plant Wansley Ash Pond Site: Wansley CCR	Project #: 18019922 SSOW#:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/2005A Custom 14 (App III + App IV)	2540C_Calcd/ Solids, Total Dissolved (TDS)	7470A/7470A_Prep Mercury (CVAA)	300_ORGFM_280/ Chloride Fluoride Sulfate	Field Sampling/ Field pH (client supplied)									Total Number of Containers	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=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/2005A Custom 14 (App III + App IV)	2540C_Calcd/ Solids, Total Dissolved (TDS)	7470A/7470A_Prep Mercury (CVAA)	300_ORGFM_280/ Chloride Fluoride Sulfate	Field Sampling/ Field pH (client supplied)						Total Number of Containers	Special Instructions/Note:
WGWC-20 (680-210064-1)	1/12/22	12:45 Eastern		Water	X	X	X	X	X	X							2	
WGWC-21 (680-210064-2)	1/11/22	12:57 Eastern		Water	X	X	X	X	X	X							2	
WGWC-22 (680-210064-3)	1/11/22	15:53 Eastern		Water	X	X	X	X	X	X							2	
WGWC-23 (680-210064-4)	1/11/22	14:50 Eastern		Water	X	X	X	X	X	X							2	
WGWC-24 (680-210064-5)	1/11/22	13:35 Eastern		Water	X	X	X	X	X	X							2	
WGWC-25 (680-210064-6)	1/11/22	16:40 Eastern		Water	X	X	X	X	X	X							2	
EB-1 (680-210064-7)	1/11/22	14:30 Eastern		Water	X	X	X	X	X	X							2	
FB-1 (680-210064-8)	1/11/22	14:40 Eastern		Water	X	X	X	X	X	X							2	
Dup-1 (680-210064-9)	1/11/22	13:35 Eastern		Water	X	X	X	X	X	X							2	

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

Possible Hazard Identification Unconfirmed	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)	Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
--	-----------------------------	---------------------------------------

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	Date/Time: 1/17 10:00	Company:	Received by: <i>[Signature]</i>
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
--	-------------------	---

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-132517-1

Login Number: 132517

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

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

Laboratory Job ID: 180-132517-2

Client Project/Site: Plant Wansley Ash Pond

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
2/21/2022 5:40:15 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

PA Lab ID: 02-00416



Table of Contents

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Case Narrative

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

Job ID: 180-132517-2

Job ID: 180-132517-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-132517-2

Receipt

The samples were received on 1/14/2022 8:00 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 1.2°C, 1.5°C and 1.6°C

Gas Flow Proportional Counter

Method 9315_Ra226: Radium 226 batch 548419 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. WGWC-20 (180-132517-1), WGWC-21 (180-132517-2), WGWC-22 (180-132517-3), WGWC-23 (180-132517-4), WGWC-24 (180-132517-5), WGWC-25 (180-132517-6), EB-1 (180-132517-7), FB-1 (180-132517-8), Dup-1 (180-132517-9), (LCS 160-548419/1-A), (MB 160-548419/12-A) and (180-132517-G-6-A DU)

Method 9320_Ra228: Radium 228 batch 548431 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. WGWC-20 (180-132517-1), WGWC-21 (180-132517-2), WGWC-22 (180-132517-3), WGWC-23 (180-132517-4), WGWC-24 (180-132517-5), WGWC-25 (180-132517-6), EB-1 (180-132517-7), FB-1 (180-132517-8), Dup-1 (180-132517-9), (LCS 160-548431/1-A), (MB 160-548431/12-A) and (180-132517-G-6-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 Wansley Ash Pond

Job ID: 180-132517-2

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 Wansley Ash Pond

Job ID: 180-132517-2

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-07-23
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	06-30-21 *
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-22
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

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

Sample Summary

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

Job ID: 180-132517-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-132517-1	WGWC-20	Water	01/12/22 12:45	01/14/22 08:00
180-132517-2	WGWC-21	Water	01/11/22 12:57	01/14/22 08:00
180-132517-3	WGWC-22	Water	01/11/22 15:53	01/14/22 08:00
180-132517-4	WGWC-23	Water	01/11/22 14:50	01/14/22 08:00
180-132517-5	WGWC-24	Water	01/11/22 13:35	01/14/22 08:00
180-132517-6	WGWC-25	Water	01/11/22 16:40	01/14/22 08:00
180-132517-7	EB-1	Water	01/11/22 14:30	01/14/22 08:00
180-132517-8	FB-1	Water	01/11/22 14:40	01/14/22 08:00
180-132517-9	Dup-1	Water	01/11/22 13:35	01/14/22 08:00

- 1
- 2
- 3
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- 9
- 10
- 11
- 12
- 13

Method Summary

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

Job ID: 180-132517-2

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

Protocol References:

None = None

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

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

Laboratory References:

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

Lab Chronicle

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

Job ID: 180-132517-2

Client Sample ID: WGWC-20

Lab Sample ID: 180-132517-1

Date Collected: 01/12/22 12:45

Matrix: Water

Date Received: 01/14/22 08:00

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			1002.89 mL	1.0 g	548419	01/27/22 12:59	HRT	TAL SL
Total/NA	Analysis	9315		1			551612	02/21/22 08:50	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1002.89 mL	1.0 g	548431	01/27/22 13:50	BMP	TAL SL
Total/NA	Analysis	9320		1			550629	02/15/22 13:22	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			551632	02/21/22 14:17	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-21

Lab Sample ID: 180-132517-2

Date Collected: 01/11/22 12:57

Matrix: Water

Date Received: 01/14/22 08:00

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			999.37 mL	1.0 g	548419	01/27/22 12:59	HRT	TAL SL
Total/NA	Analysis	9315		1			551612	02/21/22 08:51	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.37 mL	1.0 g	548431	01/27/22 13:50	BMP	TAL SL
Total/NA	Analysis	9320		1			550629	02/15/22 13:22	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			551632	02/21/22 14:17	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-22

Lab Sample ID: 180-132517-3

Date Collected: 01/11/22 15:53

Matrix: Water

Date Received: 01/14/22 08:00

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			1000.55 mL	1.0 g	548419	01/27/22 12:59	HRT	TAL SL
Total/NA	Analysis	9315		1			551612	02/21/22 08:52	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.55 mL	1.0 g	548431	01/27/22 13:50	BMP	TAL SL
Total/NA	Analysis	9320		1			550629	02/15/22 13:22	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			551632	02/21/22 14:17	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-23

Lab Sample ID: 180-132517-4

Date Collected: 01/11/22 14:50

Matrix: Water

Date Received: 01/14/22 08:00

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			999.58 mL	1.0 g	548419	01/27/22 12:59	HRT	TAL SL
Total/NA	Analysis	9315		1			551612	02/21/22 08:52	FLC	TAL SL
Instrument ID: GFPCRED										

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Lab Chronicle

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

Job ID: 180-132517-2

Client Sample ID: WGWC-23

Lab Sample ID: 180-132517-4

Date Collected: 01/11/22 14:50

Matrix: Water

Date Received: 01/14/22 08:00

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			999.58 mL	1.0 g	548431	01/27/22 13:50	BMP	TAL SL
Total/NA	Analysis	9320		1			550629	02/15/22 13:22	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			551632	02/21/22 14:17	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-24

Lab Sample ID: 180-132517-5

Date Collected: 01/11/22 13:35

Matrix: Water

Date Received: 01/14/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.06 mL	1.0 g	548419	01/27/22 12:59	HRT	TAL SL
Total/NA	Analysis	9315		1			551612	02/21/22 08:52	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.06 mL	1.0 g	548431	01/27/22 13:50	BMP	TAL SL
Total/NA	Analysis	9320		1			550679	02/15/22 13:23	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			551632	02/21/22 14:17	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-25

Lab Sample ID: 180-132517-6

Date Collected: 01/11/22 16:40

Matrix: Water

Date Received: 01/14/22 08:00

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			1003.38 mL	1.0 g	548419	01/27/22 12:59	HRT	TAL SL
Total/NA	Analysis	9315		1			551612	02/21/22 08:52	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1003.38 mL	1.0 g	548431	01/27/22 13:50	BMP	TAL SL
Total/NA	Analysis	9320		1			550679	02/15/22 13:24	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			551632	02/21/22 14:17	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-1

Lab Sample ID: 180-132517-7

Date Collected: 01/11/22 14:30

Matrix: Water

Date Received: 01/14/22 08:00

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			999.94 mL	1.0 g	548419	01/27/22 12:59	HRT	TAL SL
Total/NA	Analysis	9315		1			551612	02/21/22 08:52	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.94 mL	1.0 g	548431	01/27/22 13:50	BMP	TAL SL
Total/NA	Analysis	9320		1			550679	02/15/22 13:24	FLC	TAL SL
Instrument ID: GFPCORANGE										

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Lab Chronicle

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

Job ID: 180-132517-2

Client Sample ID: EB-1

Date Collected: 01/11/22 14:30

Date Received: 01/14/22 08:00

Lab Sample ID: 180-132517-7

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			551632	02/21/22 14:17	CAH	TAL SL

Client Sample ID: FB-1

Date Collected: 01/11/22 14:40

Date Received: 01/14/22 08:00

Lab Sample ID: 180-132517-8

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			1000.11 mL	1.0 g	548419	01/27/22 12:59	HRT	TAL SL
Total/NA	Analysis	9315		1			551612	02/21/22 08:53	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.11 mL	1.0 g	548431	01/27/22 13:50	BMP	TAL SL
Total/NA	Analysis	9320		1			550679	02/15/22 13:24	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			551632	02/21/22 14:17	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: Dup-1

Date Collected: 01/11/22 13:35

Date Received: 01/14/22 08:00

Lab Sample ID: 180-132517-9

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			999.68 mL	1.0 g	548419	01/27/22 12:59	HRT	TAL SL
Total/NA	Analysis	9315		1			551612	02/21/22 08:53	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.68 mL	1.0 g	548431	01/27/22 13:50	BMP	TAL SL
Total/NA	Analysis	9320		1			550679	02/15/22 13:24	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			551632	02/21/22 14:17	CAH	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

BMP = Bailey Pinette

HRT = Hannah Tomasovic

Batch Type: Analysis

CAH = Chris Hough

FLC = Fernando Cruz

Client Sample Results

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

Job ID: 180-132517-2

Client Sample ID: WGWC-20

Lab Sample ID: 180-132517-1

Date Collected: 01/12/22 12:45

Matrix: Water

Date Received: 01/14/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.310		0.128	0.131	1.00	0.153	pCi/L	01/27/22 12:59	02/21/22 08:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		40 - 110					01/27/22 12:59	02/21/22 08:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.778		0.325	0.333	1.00	0.463	pCi/L	01/27/22 13:50	02/15/22 13:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		40 - 110					01/27/22 13:50	02/15/22 13:22	1
Y Carrier	78.1		40 - 110					01/27/22 13:50	02/15/22 13:22	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.09		0.349	0.358	2.00	0.463	pCi/L		02/21/22 14:17	1

Client Sample Results

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

Job ID: 180-132517-2

Client Sample ID: WGWC-21

Lab Sample ID: 180-132517-2

Date Collected: 01/11/22 12:57

Matrix: Water

Date Received: 01/14/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.345		0.145	0.148	1.00	0.166	pCi/L	01/27/22 12:59	02/21/22 08:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.7		40 - 110					01/27/22 12:59	02/21/22 08:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.573		0.308	0.312	1.00	0.447	pCi/L	01/27/22 13:50	02/15/22 13:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.7		40 - 110					01/27/22 13:50	02/15/22 13:22	1
Y Carrier	85.2		40 - 110					01/27/22 13:50	02/15/22 13:22	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.919		0.340	0.345	2.00	0.447	pCi/L		02/21/22 14:17	1

Client Sample Results

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

Job ID: 180-132517-2

Client Sample ID: WGWC-22

Lab Sample ID: 180-132517-3

Date Collected: 01/11/22 15:53

Matrix: Water

Date Received: 01/14/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.19		0.366	0.465	1.00	0.141	pCi/L	01/27/22 12:59	02/21/22 08:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.2		40 - 110					01/27/22 12:59	02/21/22 08:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.72		0.459	0.572	1.00	0.331	pCi/L	01/27/22 13:50	02/15/22 13:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.2		40 - 110					01/27/22 13:50	02/15/22 13:22	1
Y Carrier	84.9		40 - 110					01/27/22 13:50	02/15/22 13:22	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	6.91		0.587	0.737	2.00	0.331	pCi/L		02/21/22 14:17	1

Client Sample Results

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

Job ID: 180-132517-2

Client Sample ID: WGWC-23

Lab Sample ID: 180-132517-4

Date Collected: 01/11/22 14:50

Matrix: Water

Date Received: 01/14/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.114	U	0.0980	0.0985	1.00	0.149	pCi/L	01/27/22 12:59	02/21/22 08:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		40 - 110					01/27/22 12:59	02/21/22 08:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.104	U	0.299	0.299	1.00	0.518	pCi/L	01/27/22 13:50	02/15/22 13:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		40 - 110					01/27/22 13:50	02/15/22 13:22	1
Y Carrier	81.5		40 - 110					01/27/22 13:50	02/15/22 13:22	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	0.218	U	0.315	0.315	2.00	0.518	pCi/L		02/21/22 14:17	1

Client Sample Results

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

Job ID: 180-132517-2

Client Sample ID: WGWC-24

Lab Sample ID: 180-132517-5

Date Collected: 01/11/22 13:35

Matrix: Water

Date Received: 01/14/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.178		0.115	0.117	1.00	0.156	pCi/L	01/27/22 12:59	02/21/22 08:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.2		40 - 110					01/27/22 12:59	02/21/22 08:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.571		0.340	0.344	1.00	0.508	pCi/L	01/27/22 13:50	02/15/22 13:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.2		40 - 110					01/27/22 13:50	02/15/22 13:23	1
Y Carrier	84.5		40 - 110					01/27/22 13:50	02/15/22 13:23	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.749		0.359	0.363	2.00	0.508	pCi/L		02/21/22 14:17	1

Client Sample Results

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

Job ID: 180-132517-2

Client Sample ID: WGWC-25

Lab Sample ID: 180-132517-6

Date Collected: 01/11/22 16:40

Matrix: Water

Date Received: 01/14/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.385		0.125	0.130	1.00	0.116	pCi/L	01/27/22 12:59	02/21/22 08:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		40 - 110					01/27/22 12:59	02/21/22 08:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.221	U	0.201	0.202	1.00	0.322	pCi/L	01/27/22 13:50	02/15/22 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		40 - 110					01/27/22 13:50	02/15/22 13:24	1
Y Carrier	86.4		40 - 110					01/27/22 13:50	02/15/22 13:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.606		0.237	0.240	2.00	0.322	pCi/L		02/21/22 14:17	1

Client Sample Results

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

Job ID: 180-132517-2

Client Sample ID: EB-1

Lab Sample ID: 180-132517-7

Date Collected: 01/11/22 14:30

Matrix: Water

Date Received: 01/14/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0198	U	0.0773	0.0773	1.00	0.146	pCi/L	01/27/22 12:59	02/21/22 08:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.4		40 - 110					01/27/22 12:59	02/21/22 08:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.199	U	0.251	0.251	1.00	0.416	pCi/L	01/27/22 13:50	02/15/22 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.4		40 - 110					01/27/22 13:50	02/15/22 13:24	1
Y Carrier	78.9		40 - 110					01/27/22 13:50	02/15/22 13:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.219	U	0.263	0.263	2.00	0.416	pCi/L		02/21/22 14:17	1

Client Sample Results

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

Job ID: 180-132517-2

Client Sample ID: FB-1

Lab Sample ID: 180-132517-8

Date Collected: 01/11/22 14:40

Matrix: Water

Date Received: 01/14/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00428	U	0.0438	0.0438	1.00	0.0950	pCi/L	01/27/22 12:59	02/21/22 08:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		40 - 110					01/27/22 12:59	02/21/22 08:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.113	U	0.242	0.243	1.00	0.417	pCi/L	01/27/22 13:50	02/15/22 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		40 - 110					01/27/22 13:50	02/15/22 13:24	1
Y Carrier	78.1		40 - 110					01/27/22 13:50	02/15/22 13:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.118	U	0.246	0.247	2.00	0.417	pCi/L		02/21/22 14:17	1

Client Sample Results

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

Job ID: 180-132517-2

Client Sample ID: Dup-1

Lab Sample ID: 180-132517-9

Date Collected: 01/11/22 13:35

Matrix: Water

Date Received: 01/14/22 08:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.111	U	0.0830	0.0836	1.00	0.117	pCi/L	01/27/22 12:59	02/21/22 08:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					01/27/22 12:59	02/21/22 08:53	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.817		0.334	0.342	1.00	0.476	pCi/L	01/27/22 13:50	02/15/22 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					01/27/22 13:50	02/15/22 13:24	1
Y Carrier	85.6		40 - 110					01/27/22 13:50	02/15/22 13:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.928		0.344	0.352	2.00	0.476	pCi/L		02/21/22 14:17	1

QC Sample Results

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

Job ID: 180-132517-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-548419/12-A
Matrix: Water
Analysis Batch: 551612

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 548419

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.04218	U	0.0602	0.0603	1.00	0.103	pCi/L	01/27/22 12:59	02/21/22 08:54	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	96.7		40 - 110		01/27/22 12:59	02/21/22 08:54	1			

Lab Sample ID: LCS 160-548419/1-A
Matrix: Water
Analysis Batch: 551612

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 548419

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.554		1.03	1.00	0.127	pCi/L	84	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	96.7		40 - 110						

Lab Sample ID: 180-132517-6 DU
Matrix: Water
Analysis Batch: 551612

Client Sample ID: WGWC-25
Prep Type: Total/NA
Prep Batch: 548419

Analyte	Sample		DU		Total	RL	MDC	Unit	RER	RER Limit
	Result	Sample Qual	Result	DU Qual	Uncert. (2σ+/-)					
Radium-226	0.385		0.2209		0.104	1.00	0.117	pCi/L	0.70	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	96.2		40 - 110							

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-548431/12-A
Matrix: Water
Analysis Batch: 550679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 548431

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2703	U	0.253	0.255	1.00	0.409	pCi/L	01/27/22 13:50	02/15/22 13:24	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	96.7		40 - 110		01/27/22 13:50	02/15/22 13:24	1			
Y Carrier	81.5		40 - 110		01/27/22 13:50	02/15/22 13:24	1			

QC Sample Results

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

Job ID: 180-132517-2

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

Lab Sample ID: LCS 160-548431/1-A
Matrix: Water
Analysis Batch: 550629

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 548431

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	8.87	9.112		1.09	1.00	0.435	pCi/L	103	75 - 125
LCS LCS									
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	96.7		40 - 110						
Y Carrier	83.4		40 - 110						

Lab Sample ID: 180-132517-6 DU
Matrix: Water
Analysis Batch: 550679

Client Sample ID: WGWC-25
Prep Type: Total/NA
Prep Batch: 548431

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.221	U	0.5097		0.271	1.00	0.394	pCi/L	0.61	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	96.2		40 - 110							
Y Carrier	83.4		40 - 110							

QC Association Summary

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

Job ID: 180-132517-2

Rad

Prep Batch: 548419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132517-1	WGWC-20	Total/NA	Water	PrecSep-21	
180-132517-2	WGWC-21	Total/NA	Water	PrecSep-21	
180-132517-3	WGWC-22	Total/NA	Water	PrecSep-21	
180-132517-4	WGWC-23	Total/NA	Water	PrecSep-21	
180-132517-5	WGWC-24	Total/NA	Water	PrecSep-21	
180-132517-6	WGWC-25	Total/NA	Water	PrecSep-21	
180-132517-7	EB-1	Total/NA	Water	PrecSep-21	
180-132517-8	FB-1	Total/NA	Water	PrecSep-21	
180-132517-9	Dup-1	Total/NA	Water	PrecSep-21	
MB 160-548419/12-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-548419/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
180-132517-6 DU	WGWC-25	Total/NA	Water	PrecSep-21	

Prep Batch: 548431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-132517-1	WGWC-20	Total/NA	Water	PrecSep_0	
180-132517-2	WGWC-21	Total/NA	Water	PrecSep_0	
180-132517-3	WGWC-22	Total/NA	Water	PrecSep_0	
180-132517-4	WGWC-23	Total/NA	Water	PrecSep_0	
180-132517-5	WGWC-24	Total/NA	Water	PrecSep_0	
180-132517-6	WGWC-25	Total/NA	Water	PrecSep_0	
180-132517-7	EB-1	Total/NA	Water	PrecSep_0	
180-132517-8	FB-1	Total/NA	Water	PrecSep_0	
180-132517-9	Dup-1	Total/NA	Water	PrecSep_0	
MB 160-548431/12-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-548431/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
180-132517-6 DU	WGWC-25	Total/NA	Water	PrecSep_0	

Client Information Client Contact: <u>H. Awik, J. Benstead</u> Phone: <u>770-594-5998</u> E-Mail: <u>shelli.brown@eurofinset.com</u>		Lab P/N: <u>Brown Shall</u> E-Mail: <u>shelli.brown@eurofinset.com</u>		Center Tracking No(s): COC No: Page: Job #:	
Due Date Requested: TAT Requested (days):		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> App III Metals, B, Ca <input checked="" type="checkbox"/> Cl, F, SO4 & TDS (EPA 300 & SM 2540C) <input checked="" type="checkbox"/> App IV Metals (EPA 60207A) <input checked="" type="checkbox"/> Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti <input checked="" type="checkbox"/> Radium 226 & 228 (SW-846 9316/9320) <input checked="" type="checkbox"/>		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 - Na2OAS Q - Na2SC3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Address: <u>241 Ralph McGill Blvd SE</u> City: <u>Atlanta</u> State, Zip: <u>GA, 30308</u> Phone: <u>404-506-7116(Tel)</u> Email:		Matrix (w=water, s=solid, o=waste/oil, ST= tissue, A=Air)		Preservation Codes	
Project Name: <u>CCR - Plant Wansley Ash Pond</u> Site:		Sample Type (C=comp, G=grab)		Sample Time	
Sample Date		Sample Time		Matrix	
Sample Identification <u>WGWC-20</u> <u>WGWC-21</u> <u>WGWC-22</u> <u>WGWC-23</u> <u>WGWC-24</u> <u>WGWC-25</u> <u>EB-1</u> <u>FB-1</u> <u>Dup-1</u>		Sample Date <u>1-12-22</u> <u>1-11-22</u> <u>1-11-22</u> <u>1-11-22</u> <u>1-11-22</u> <u>1-11-22</u> <u>1-11-22</u> <u>1-11-22</u>		Sample Time <u>1245</u> <u>1257</u> <u>1553</u> <u>1450</u> <u>1335</u> <u>1640</u> <u>1430</u> <u>1440</u> <u>1335</u>	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Date <u>1-13-22</u> / <u>1/22</u>		Company <u>ACC</u>	
Deliverable Requested I, II, III, IV Other (specify)		Date <u>1/13/22</u>		Company <u>ACC</u>	
Empty Kit Relinquished by		Date <u>1/13/22</u>		Company <u>ACC</u>	
Relinquished by <u>[Signature]</u>		Date <u>1/13/22</u>		Company <u>ACC</u>	
Relinquished by <u>[Signature]</u>		Date <u>1/13/22</u>		Company <u>ACC</u>	
Relinquished by <u>[Signature]</u>		Date <u>1/13/22</u>		Company <u>ACC</u>	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Date <u>1/13/22</u>		Company <u>ACC</u>	
Special Instructions/QC Requirements		Date <u>1/13/22</u>		Company <u>ACC</u>	
Method of Shipment		Date <u>1/13/22</u>		Company <u>ACC</u>	
Cooler Temperature(s) °C and Other Remarks:		Date <u>1-13-22</u>		Company <u>ACC</u>	



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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-132517-2

Login Number: 132517

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: 180-132517-2

Login Number: 132517

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 01/24/22 02:55 PM

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



ANALYTICAL REPORT

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

Laboratory Job ID: 180-134761-1
Client Project/Site: Wansley Ash Pond
Revision: 1

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
6/23/2022 7:29:12 PM

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

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results through



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

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

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Job ID: 180-134761-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-134761-1

Comments

062322 Revised report to make changes listed below. This report replaces the report previously issued on 032122.

Method 6020B: B flag removed from sample WGWC-20 (180-134765-10)

Method 6020B: J flag applied to sample FB-3 (180-134765-11)

Receipt

The samples were received on 3/5/2022 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 coolers at receipt time were 2.1° C, 2.9° C, 2.9° C, 4.2° C, 4.4° C and 4.4° C.

GC Semi VOA

Method 300.0: The matrix spike duplicate (MSD) recoveries for analytical batch 180-390804 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-390909 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 native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with analytical batch 180-390909 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of sulfate in the MSD was above the instrument calibration range. The data have been reported and qualified.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 180-391414 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals

Method 6020B: The post digestion spike % recovery for calcium and manganese associated with batch 180-391755 was outside of control limits. The associated sample is: WGWC-12 (180-134761-1).

Method 6020B: The post digestion spike % recovery for boron associated with batch 180-391946 was outside of control limits. The associated sample is: WGWC-12 (180-134761-1).

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: Wansley Ash Pond

Job ID: 180-134761-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
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
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
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: Wansley Ash Pond

Job ID: 180-134761-1

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	05-19-22
California	State	2891	04-30-22
Connecticut	State	PH-0688	05-19-22
Florida	NELAP	E871008	05-05-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	05-19-22
Kansas	NELAP	E-10350	03-30-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	05-29-22
Louisiana	NELAP	04041	05-19-22
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	05-19-22
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-04-22
New Jersey	NELAP	PA005	05-19-22
New York	NELAP	11182	03-31-22
North Carolina (WW/SW)	State	434	05-19-22
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	05-19-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21 *
South Carolina	State	89014	05-19-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-19-22
Virginia	NELAP	10043	05-19-22
West Virginia DEP	State	142	05-19-22
Wisconsin	State	998027800	08-31-22

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

Sample Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-134761-1	WGWC-12	Water	03/04/22 14:30	03/05/22 09:00
180-134763-2	WGWC-19	Water	03/03/22 14:05	03/05/22 09:00
180-134763-5	WGWC-10	Water	03/03/22 11:52	03/05/22 09:00
180-134763-6	WGWC-24	Water	03/03/22 14:06	03/05/22 09:00
180-134763-7	WGWC-21	Water	03/03/22 16:27	03/05/22 09:00
180-134763-9	WGWC-23	Water	03/04/22 09:47	03/05/22 09:00
180-134763-10	WGWC-17	Water	03/04/22 11:14	03/05/22 09:00
180-134763-11	Dup-3	Water	03/04/22 00:01	03/05/22 09:00
180-134765-1	DUP-2	Water	03/03/22 00:01	03/05/22 09:00
180-134765-2	WGWC-15	Water	03/03/22 13:40	03/05/22 09:00
180-134765-3	WGWC-16	Water	03/03/22 14:52	03/05/22 09:00
180-134765-4	WGWA-7	Water	03/03/22 11:52	03/05/22 09:00
180-134765-5	WGWC-13	Water	03/03/22 13:13	03/05/22 09:00
180-134765-6	WGWC-14A	Water	03/03/22 14:07	03/05/22 09:00
180-134765-7	WGWC-11	Water	03/03/22 15:30	03/05/22 09:00
180-134765-8	FB-2	Water	03/03/22 15:15	03/05/22 09:00
180-134765-9	WGWC-25	Water	03/04/22 10:50	03/05/22 09:00
180-134765-10	WGWC-20	Water	03/04/22 12:11	03/05/22 09:00
180-134765-11	FB-3	Water	03/04/22 11:50	03/05/22 09:00
180-134766-1	EB-3	Water	03/04/22 13:15	03/05/22 09:00
180-134766-2	WGWC-22	Water	03/04/22 13:50	03/05/22 09:00



Method Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
EPA 9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
SM2320 B	Alkalinity, Total	SM18	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	TAL 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:

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

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-12

Lab Sample ID: 180-134761-1

Date Collected: 03/04/22 14:30

Matrix: Water

Date Received: 03/05/22 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	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			390909	03/09/22 20:30	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391755	03/15/22 13:11	RSK	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391946	03/16/22 12:36	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391840	03/16/22 11:31	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 12:35	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390867	03/08/22 15:26	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391040	03/09/22 18:45	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/12/22 02:46	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391279	03/04/22 14:30	FDS	TAL PIT

Client Sample ID: WGWC-19

Lab Sample ID: 180-134763-2

Date Collected: 03/03/22 14:05

Matrix: Water

Date Received: 03/05/22 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	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391414	03/14/22 02:23	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391755	03/15/22 13:23	RSK	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391946	03/16/22 12:56	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391840	03/16/22 11:31	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 12:36	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390865	03/08/22 15:59	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391026	03/09/22 16:20	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			390904	03/08/22 21:35	CMT	TAL PIT

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-19

Lab Sample ID: 180-134763-2

Date Collected: 03/03/22 14:05

Matrix: Water

Date Received: 03/05/22 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	Field Sampling		1			391279	03/03/22 14:05	FDS	TAL PIT

Client Sample ID: WGWC-10

Lab Sample ID: 180-134763-5

Date Collected: 03/03/22 11:52

Matrix: Water

Date Received: 03/05/22 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	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			390804	03/08/22 16:40	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391755	03/15/22 13:26	RSK	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391946	03/16/22 12:59	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391865	03/16/22 12:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 13:34	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390865	03/08/22 16:10	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	390883	03/08/22 18:43	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391320	03/09/22 17:58	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391279	03/03/22 11:52	FDS	TAL PIT

Client Sample ID: WGWC-24

Lab Sample ID: 180-134763-6

Date Collected: 03/03/22 14:06

Matrix: Water

Date Received: 03/05/22 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	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			390804	03/08/22 16:55	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391755	03/15/22 13:29	RSK	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391946	03/16/22 13:01	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391865	03/16/22 12:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 13:35	RJR	TAL PIT

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-24

Lab Sample ID: 180-134763-6

Date Collected: 03/03/22 14:06

Matrix: Water

Date Received: 03/05/22 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	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 16:21	HEK	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390883	03/08/22 18:43	JCR	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 18:02	CMT	TAL PIT
		Instrument ID: PCTITRATOR								
Total/NA	Analysis	Field Sampling		1			391279	03/03/22 14:06	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: WGWC-21

Lab Sample ID: 180-134763-7

Date Collected: 03/03/22 16:27

Matrix: Water

Date Received: 03/05/22 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	EPA 300.0 R2.1		1			390804	03/08/22 17:40	JRB	TAL PIT
		Instrument ID: CHIC2100A								
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391755	03/15/22 13:36	RSK	TAL PIT
		Instrument ID: NEMO								
Total/NA	Prep	7470A			25 mL	25 mL	391865	03/16/22 12:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			392076	03/17/22 13:46	RJR	TAL PIT
		Instrument ID: HGY								
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 16:31	HEK	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390883	03/08/22 18:43	JCR	TAL PIT
		Instrument ID: NOEQUIP								
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 18:39	CMT	TAL PIT
		Instrument ID: PCTITRATOR								
Total/NA	Analysis	Field Sampling		1			391279	03/03/22 16:27	FDS	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: WGWC-23

Lab Sample ID: 180-134763-9

Date Collected: 03/04/22 09:47

Matrix: Water

Date Received: 03/05/22 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	EPA 300.0 R2.1		1			390804	03/08/22 18:03	JRB	TAL PIT
		Instrument ID: CHIC2100A								
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391755	03/15/22 13:39	RSK	TAL PIT
		Instrument ID: NEMO								

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Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-23

Lab Sample ID: 180-134763-9

Date Collected: 03/04/22 09:47

Matrix: Water

Date Received: 03/05/22 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	391865	03/16/22 12:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			392076	03/17/22 13:47	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390867	03/08/22 15:41	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390883	03/08/22 18:43	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 19:24	CMT	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			391279	03/04/22 09:47	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-17

Lab Sample ID: 180-134763-10

Date Collected: 03/04/22 11:14

Matrix: Water

Date Received: 03/05/22 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	EPA 300.0 R2.1		1			390804	03/08/22 18:14	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391755	03/15/22 13:41	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	391865	03/16/22 12:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			392076	03/17/22 13:48	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390867	03/08/22 15:55	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390883	03/08/22 18:43	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 20:06	CMT	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			391279	03/04/22 11:14	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: Dup-3

Lab Sample ID: 180-134763-11

Date Collected: 03/04/22 00:01

Matrix: Water

Date Received: 03/05/22 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	EPA 300.0 R2.1		1			390804	03/08/22 18:28	JRB	TAL PIT
Instrument ID: CHIC2100A										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: Dup-3
Date Collected: 03/04/22 00:01
Date Received: 03/05/22 09:00

Lab Sample ID: 180-134763-11
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	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391755	03/15/22 13:44	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	391865	03/16/22 12:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			392076	03/17/22 13:49	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390867	03/08/22 16:10	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390883	03/08/22 18:43	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 20:19	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: DUP-2
Date Collected: 03/03/22 00:01
Date Received: 03/05/22 09:00

Lab Sample ID: 180-134765-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			390804	03/08/22 15:09	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391755	03/15/22 13:47	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			392076	03/17/22 12:46	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 16:42	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390883	03/08/22 18:43	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 18:46	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: WGWC-15
Date Collected: 03/03/22 13:40
Date Received: 03/05/22 09:00

Lab Sample ID: 180-134765-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			390804	03/08/22 15:54	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391755	03/15/22 13:49	RSK	TAL PIT
Instrument ID: NEMO										

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Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-15

Lab Sample ID: 180-134765-2

Date Collected: 03/03/22 13:40

Matrix: Water

Date Received: 03/05/22 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	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			392076	03/17/22 12:49	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 16:53	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390883	03/08/22 18:43	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 18:54	CMT	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			391283	03/03/22 13:40	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-16

Lab Sample ID: 180-134765-3

Date Collected: 03/03/22 14:52

Matrix: Water

Date Received: 03/05/22 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	EPA 300.0 R2.1		1			390804	03/08/22 16:09	JRB	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391755	03/15/22 13:52	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			392076	03/17/22 12:50	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 17:03	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390883	03/08/22 18:43	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 19:01	CMT	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			391283	03/03/22 14:52	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-7

Lab Sample ID: 180-134765-4

Date Collected: 03/03/22 11:52

Matrix: Water

Date Received: 03/05/22 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	EPA 300.0 R2.1		1			390804	03/08/22 16:25	JRB	TAL PIT
Instrument ID: CHIC2100A										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWA-7

Lab Sample ID: 180-134765-4

Date Collected: 03/03/22 11:52

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391755	03/15/22 13:54	RSK	TAL PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			392076	03/17/22 12:51	RJR	TAL PIT
	Instrument ID: HGY									
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 17:14	HEK	TAL PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390883	03/08/22 18:43	JCR	TAL PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 19:08	CMT	TAL PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			391283	03/03/22 11:52	FDS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WGWC-13

Lab Sample ID: 180-134765-5

Date Collected: 03/03/22 13:13

Matrix: Water

Date Received: 03/05/22 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	EPA 300.0 R2.1		1			391628	03/15/22 19:07	JRB	TAL PIT
	Instrument ID: CHICS2100B									
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391755	03/15/22 13:57	RSK	TAL PIT
	Instrument ID: NEMO									
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			392076	03/17/22 12:52	RJR	TAL PIT
	Instrument ID: HGY									
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 17:25	HEK	TAL PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	391026	03/09/22 16:20	JCR	TAL PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	SM2320 B		1			390904	03/08/22 21:21	CMT	TAL PIT
	Instrument ID: PCTITRATOR									
Total/NA	Analysis	Field Sampling		1			391283	03/03/22 13:13	FDS	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-14A

Lab Sample ID: 180-134765-6

Date Collected: 03/03/22 14:07

Matrix: Water

Date Received: 03/05/22 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	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391628	03/15/22 22:39	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391755	03/15/22 14:05	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 12:53	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390865	03/08/22 17:35	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391026	03/09/22 16:20	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			390904	03/08/22 20:25	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391283	03/03/22 14:07	FDS	TAL PIT

Client Sample ID: WGWC-11

Lab Sample ID: 180-134765-7

Date Collected: 03/03/22 15:30

Matrix: Water

Date Received: 03/05/22 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	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391628	03/15/22 22:54	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391755	03/15/22 14:07	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 12:57	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390867	03/08/22 14:28	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391026	03/09/22 16:20	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			390904	03/08/22 20:18	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391283	03/03/22 15:30	FDS	TAL PIT

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Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: FB-2

Lab Sample ID: 180-134765-8

Date Collected: 03/03/22 15:15

Matrix: Water

Date Received: 03/05/22 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	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391628	03/15/22 23:09	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391755	03/15/22 14:10	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 12:58	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390867	03/08/22 15:11	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391026	03/09/22 16:20	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			390904	03/08/22 19:40	CMT	TAL PIT

Client Sample ID: WGWC-25

Lab Sample ID: 180-134765-9

Date Collected: 03/04/22 10:50

Matrix: Water

Date Received: 03/05/22 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	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			392292	03/19/22 22:45	JRB	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391628	03/16/22 00:25	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391755	03/15/22 14:12	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 12:59	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390867	03/08/22 16:53	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391026	03/09/22 16:20	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/12/22 02:53	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391283	03/04/22 10:50	FDS	TAL PIT

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-20

Lab Sample ID: 180-134765-10

Date Collected: 03/04/22 12:11

Matrix: Water

Date Received: 03/05/22 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	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391628	03/15/22 23:25	JRB	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		10			391628	03/15/22 23:40	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391755	03/15/22 14:15	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 13:01	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390867	03/08/22 17:08	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391026	03/09/22 16:20	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/12/22 02:19	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391283	03/04/22 12:11	FDS	TAL PIT

Client Sample ID: FB-3

Lab Sample ID: 180-134765-11

Date Collected: 03/04/22 11:50

Matrix: Water

Date Received: 03/05/22 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	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			392292	03/19/22 23:02	JRB	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391628	03/16/22 00:40	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391233	03/11/22 08:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			391755	03/15/22 14:18	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 13:02	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390867	03/08/22 17:23	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391026	03/09/22 16:20	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/12/22 02:26	CMT	TAL PIT

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: EB-3

Lab Sample ID: 180-134766-1

Date Collected: 03/04/22 13:15

Matrix: Water

Date Received: 03/05/22 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	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			390909	03/09/22 17:46	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391389	03/12/22 12:43	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			391756	03/15/22 14:34	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 13:03	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390867	03/08/22 17:37	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391040	03/09/22 18:45	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/12/22 02:32	CMT	TAL PIT

Client Sample ID: WGWC-22

Lab Sample ID: 180-134766-2

Date Collected: 03/04/22 13:50

Matrix: Water

Date Received: 03/05/22 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	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			390909	03/09/22 17:05	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391389	03/12/22 12:43	KFS	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			391756	03/15/22 14:52	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391862	03/16/22 12:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392076	03/17/22 13:04	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390813	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390867	03/08/22 17:52	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391040	03/09/22 18:45	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/12/22 02:38	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391685	03/04/22 13:50	FDS	TAL PIT

Laboratory References:

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

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

HEK = Hope Kiesling

KFS = Kelly Shannon

RGM = Rebecca Manns

RJR = Ron Rosenbaum

Batch Type: Analysis

CMT = Cassandra Tlumac

FDS = Sampler Field

HEK = Hope Kiesling

JCR = Jessica Rodgers

JRB = James Burzio

RJR = Ron Rosenbaum

RSK = Robert Kurtz

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Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-12

Lab Sample ID: 180-134761-1

Date Collected: 03/04/22 14:30

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.2		1.0	0.71	mg/L			03/09/22 20:30	1
Fluoride	0.068	J	0.10	0.026	mg/L			03/09/22 20:30	1
Sulfate	14		1.0	0.76	mg/L			03/09/22 20:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:11	1
Arsenic	0.00037	J	0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:11	1
Barium	0.016		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:11	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:11	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/16/22 12:36	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:11	1
Calcium	12		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:11	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:11	1
Cobalt	0.00056	J	0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:11	1
Lead	0.00033	J	0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:11	1
Lithium	0.0061		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:11	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:11	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:11	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:11	1
Sodium	5.8		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:11	1
Potassium	2.0		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:11	1
Iron	1.5	B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:11	1
Magnesium	2.9		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:11	1
Manganese	0.013		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:11	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 11:31	03/17/22 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 15:26	1
Total Dissolved Solids	89		10	10	mg/L			03/09/22 18:45	1
Total Alkalinity as CaCO3 to pH 4.5	43		5.0	5.0	mg/L			03/12/22 02:46	1
Bicarbonate Alkalinity as CaCO3	43		5.0	5.0	mg/L			03/12/22 02:46	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.79				SU			03/04/22 14:30	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-19

Lab Sample ID: 180-134763-2

Date Collected: 03/03/22 14:05

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.2	F1	1.0	0.71	mg/L			03/14/22 02:23	1
Fluoride	0.40	F1	0.10	0.026	mg/L			03/14/22 02:23	1
Sulfate	4.8	F1	1.0	0.76	mg/L			03/14/22 02:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:23	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:23	1
Barium	<0.0031		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:23	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:23	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/16/22 12:56	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:23	1
Calcium	12		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:23	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:23	1
Cobalt	0.00034	J	0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:23	1
Lead	0.00030	J	0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:23	1
Lithium	0.057		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:23	1
Molybdenum	0.0013	J	0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:23	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:23	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:23	1
Sodium	7.5		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:23	1
Potassium	1.3		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:23	1
Iron	0.078	B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:23	1
Magnesium	9.5		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:23	1
Manganese	0.016		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:23	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 11:31	03/17/22 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	4.5		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 15:59	1
Total Dissolved Solids	98		10	10	mg/L			03/09/22 16:20	1
Total Alkalinity as CaCO3 to pH 4.5	90		5.0	5.0	mg/L			03/08/22 21:35	1
Bicarbonate Alkalinity as CaCO3	90		5.0	5.0	mg/L			03/08/22 21:35	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.69				SU			03/03/22 14:05	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-10

Lab Sample ID: 180-134763-5

Date Collected: 03/03/22 11:52

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6		1.0	0.71	mg/L			03/08/22 16:40	1
Fluoride	0.067	J	0.10	0.026	mg/L			03/08/22 16:40	1
Sulfate	2.0		1.0	0.76	mg/L			03/08/22 16:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:26	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:26	1
Barium	0.033		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:26	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:26	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/16/22 12:59	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:26	1
Calcium	7.1		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:26	1
Chromium	0.0023		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:26	1
Cobalt	0.00045	J	0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:26	1
Lead	0.00025	J	0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:26	1
Lithium	0.0038	J	0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:26	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:26	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:26	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:26	1
Sodium	3.7		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:26	1
Potassium	1.7		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:26	1
Iron	<0.028		0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:26	1
Magnesium	1.8		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:26	1
Manganese	0.033		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:26	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:26	03/17/22 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	8.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 16:10	1
Total Dissolved Solids	45		10	10	mg/L			03/08/22 18:43	1
Total Alkalinity as CaCO3 to pH 4.5	27		5.0	5.0	mg/L			03/09/22 17:58	1
Bicarbonate Alkalinity as CaCO3	27		5.0	5.0	mg/L			03/09/22 17:58	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.36				SU			03/03/22 11:52	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-24

Lab Sample ID: 180-134763-6

Date Collected: 03/03/22 14:06

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50		1.0	0.71	mg/L			03/08/22 16:55	1
Fluoride	0.71		0.10	0.026	mg/L			03/08/22 16:55	1
Sulfate	130		1.0	0.76	mg/L			03/08/22 16:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:29	1
Arsenic	0.0029		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:29	1
Barium	0.028		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:29	1
Beryllium	0.010		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:29	1
Boron	1.6		0.080	0.060	mg/L		03/11/22 08:06	03/16/22 13:01	1
Cadmium	0.00030	J	0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:29	1
Calcium	42		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:29	1
Cobalt	0.086		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:29	1
Lead	0.00076	J	0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:29	1
Lithium	0.0066		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:29	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:29	1
Selenium	0.00077	J	0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:29	1
Thallium	0.00060	J	0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:29	1
Sodium	11		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:29	1
Potassium	9.6		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:29	1
Iron	0.037	J B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:29	1
Magnesium	9.6		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:29	1
Manganese	3.1		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:29	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:26	03/17/22 13:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	4.3		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 16:21	1
Total Dissolved Solids	280		10	10	mg/L			03/08/22 18:43	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/09/22 18:02	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/09/22 18:02	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.39				SU			03/03/22 14:06	1

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Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-21

Lab Sample ID: 180-134763-7

Date Collected: 03/03/22 16:27

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45		1.0	0.71	mg/L			03/08/22 17:40	1
Fluoride	1.8		0.10	0.026	mg/L			03/08/22 17:40	1
Sulfate	250		1.0	0.76	mg/L			03/08/22 17:40	1

Method: 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		03/11/22 08:06	03/15/22 13:36	1
Arsenic	0.00053	J	0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:36	1
Barium	0.0068	J	0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:36	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:36	1
Boron	0.12		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 13:36	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:36	1
Calcium	54		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:36	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:36	1
Cobalt	0.00042	J	0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:36	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:36	1
Lithium	0.044		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:36	1
Molybdenum	0.036		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:36	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:36	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:36	1
Sodium	110		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:36	1
Potassium	2.7		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:36	1
Iron	0.49	B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:36	1
Magnesium	8.2		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:36	1
Manganese	0.84		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:36	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:26	03/17/22 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	6.2		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 16:31	1
Total Dissolved Solids	580		10	10	mg/L			03/08/22 18:43	1
Total Alkalinity as CaCO3 to pH 4.5	94		5.0	5.0	mg/L			03/09/22 18:39	1
Bicarbonate Alkalinity as CaCO3	94		5.0	5.0	mg/L			03/09/22 18:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.88				SU			03/03/22 16:27	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-23

Lab Sample ID: 180-134763-9

Date Collected: 03/04/22 09:47

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		1.0	0.71	mg/L			03/08/22 18:03	1
Fluoride	0.045	J	0.10	0.026	mg/L			03/08/22 18:03	1
Sulfate	5.0		1.0	0.76	mg/L			03/08/22 18:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0018	J	0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:39	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:39	1
Barium	0.0081	J	0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:39	1
Beryllium	0.00097	J	0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:39	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 13:39	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:39	1
Calcium	4.0		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:39	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:39	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:39	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:39	1
Lithium	0.0015	J	0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:39	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:39	1
Selenium	0.0020	J	0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:39	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:39	1
Sodium	13		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:39	1
Potassium	2.2		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:39	1
Iron	0.033	J B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:39	1
Magnesium	0.46	J	0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:39	1
Manganese	0.0050		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:39	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:26	03/17/22 13:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.9		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 15:41	1
Total Dissolved Solids	69		10	10	mg/L			03/08/22 18:43	1
Total Alkalinity as CaCO3 to pH 4.5	29		5.0	5.0	mg/L			03/09/22 19:24	1
Bicarbonate Alkalinity as CaCO3	29		5.0	5.0	mg/L			03/09/22 19:24	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.74				SU			03/04/22 09:47	1

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Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-17

Lab Sample ID: 180-134763-10

Date Collected: 03/04/22 11:14

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.71	mg/L			03/08/22 18:14	1
Fluoride	0.060	J	0.10	0.026	mg/L			03/08/22 18:14	1
Sulfate	3.6		1.0	0.76	mg/L			03/08/22 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:41	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:41	1
Barium	0.011		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:41	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:41	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 13:41	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:41	1
Calcium	5.3		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:41	1
Cobalt	0.00026	J	0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:41	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:41	1
Lithium	0.0042	J	0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:41	1
Molybdenum	0.0021	J	0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:41	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:41	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:41	1
Sodium	8.5		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:41	1
Potassium	1.5		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:41	1
Iron	0.46	B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:41	1
Magnesium	3.4		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:41	1
Manganese	0.016		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:41	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:26	03/17/22 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 15:55	1
Total Dissolved Solids	55		10	10	mg/L			03/08/22 18:43	1
Total Alkalinity as CaCO3 to pH 4.5	41		5.0	5.0	mg/L			03/09/22 20:06	1
Bicarbonate Alkalinity as CaCO3	41		5.0	5.0	mg/L			03/09/22 20:06	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.21				SU			03/04/22 11:14	1

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Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: Dup-3
Date Collected: 03/04/22 00:01
Date Received: 03/05/22 09:00

Lab Sample ID: 180-134763-11
Matrix: Water

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.71	mg/L			03/08/22 18:28	1
Fluoride	0.055	J	0.10	0.026	mg/L			03/08/22 18:28	1
Sulfate	3.4		1.0	0.76	mg/L			03/08/22 18:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:44	1
Arsenic	0.00028	J	0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:44	1
Barium	0.011		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:44	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:44	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 13:44	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:44	1
Calcium	5.4		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:44	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:44	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:44	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:44	1
Lithium	0.0046	J	0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:44	1
Molybdenum	0.0021	J	0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:44	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:44	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:44	1
Sodium	8.4		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:44	1
Potassium	1.6		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:44	1
Iron	0.46	B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:44	1
Magnesium	3.5		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:44	1
Manganese	0.015		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:44	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:26	03/17/22 13:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	4.6		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 16:10	1
Total Dissolved Solids	97		10	10	mg/L			03/08/22 18:43	1
Total Alkalinity as CaCO3 to pH 4.5	43		5.0	5.0	mg/L			03/09/22 20:19	1
Bicarbonate Alkalinity as CaCO3	43		5.0	5.0	mg/L			03/09/22 20:19	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: DUP-2

Lab Sample ID: 180-134765-1

Date Collected: 03/03/22 00:01

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41	F1	1.0	0.71	mg/L			03/08/22 15:09	1
Fluoride	0.056	J	0.10	0.026	mg/L			03/08/22 15:09	1
Sulfate	55	F1	1.0	0.76	mg/L			03/08/22 15:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:47	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:47	1
Barium	0.039		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:47	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:47	1
Boron	0.75		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 13:47	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:47	1
Calcium	23		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:47	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:47	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:47	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:47	1
Lithium	0.0041	J	0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:47	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:47	1
Selenium	0.0016	J	0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:47	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:47	1
Sodium	11		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:47	1
Potassium	2.5		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:47	1
Iron	0.029	J B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:47	1
Magnesium	8.1		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:47	1
Manganese	0.021		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:47	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 12:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 16:42	1
Total Dissolved Solids	170		10	10	mg/L			03/08/22 18:43	1
Total Alkalinity as CaCO3 to pH 4.5	7.4		5.0	5.0	mg/L			03/09/22 18:46	1
Bicarbonate Alkalinity as CaCO3	7.4		5.0	5.0	mg/L			03/09/22 18:46	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-15

Lab Sample ID: 180-134765-2

Date Collected: 03/03/22 13:40

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.4		1.0	0.71	mg/L			03/08/22 15:54	1
Fluoride	0.88		0.10	0.026	mg/L			03/08/22 15:54	1
Sulfate	18		1.0	0.76	mg/L			03/08/22 15:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:49	1
Arsenic	0.00057	J	0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:49	1
Barium	0.029		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:49	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:49	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 13:49	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:49	1
Calcium	28		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:49	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:49	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:49	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:49	1
Lithium	0.0068		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:49	1
Molybdenum	0.0025	J	0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:49	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:49	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:49	1
Sodium	10		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:49	1
Potassium	1.5		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:49	1
Iron	0.038	J B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:49	1
Magnesium	4.8		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:49	1
Manganese	0.011		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:49	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 12:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.0		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 16:53	1
Total Dissolved Solids	140		10	10	mg/L			03/08/22 18:43	1
Total Alkalinity as CaCO3 to pH 4.5	94		5.0	5.0	mg/L			03/09/22 18:54	1
Bicarbonate Alkalinity as CaCO3	94		5.0	5.0	mg/L			03/09/22 18:54	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.61				SU			03/03/22 13:40	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-16

Lab Sample ID: 180-134765-3

Date Collected: 03/03/22 14:52

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42		1.0	0.71	mg/L			03/08/22 16:09	1
Fluoride	0.067	J	0.10	0.026	mg/L			03/08/22 16:09	1
Sulfate	57		1.0	0.76	mg/L			03/08/22 16:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:52	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:52	1
Barium	0.041		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:52	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:52	1
Boron	0.79		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 13:52	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:52	1
Calcium	24		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:52	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:52	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:52	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:52	1
Lithium	0.0041	J	0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:52	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:52	1
Selenium	0.0018	J	0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:52	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:52	1
Sodium	12		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:52	1
Potassium	2.6		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:52	1
Iron	0.050	B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:52	1
Magnesium	8.5		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:52	1
Manganese	0.022		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:52	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 12:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 17:03	1
Total Dissolved Solids	170		10	10	mg/L			03/08/22 18:43	1
Total Alkalinity as CaCO3 to pH 4.5	8.5		5.0	5.0	mg/L			03/09/22 19:01	1
Bicarbonate Alkalinity as CaCO3	8.5		5.0	5.0	mg/L			03/09/22 19:01	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.22				SU			03/03/22 14:52	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWA-7

Lab Sample ID: 180-134765-4

Date Collected: 03/03/22 11:52

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.1		1.0	0.71	mg/L			03/08/22 16:25	1
Fluoride	0.038	J	0.10	0.026	mg/L			03/08/22 16:25	1
Sulfate	<0.76		1.0	0.76	mg/L			03/08/22 16:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:54	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:54	1
Barium	0.012		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:54	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:54	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 13:54	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:54	1
Calcium	1.4		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:54	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:54	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:54	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:54	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:54	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:54	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:54	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:54	1
Sodium	2.6		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:54	1
Potassium	0.87		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:54	1
Iron	<0.028		0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:54	1
Magnesium	0.68		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:54	1
Manganese	0.0053		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:54	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 12:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	5.3		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 17:14	1
Total Dissolved Solids	17		10	10	mg/L			03/08/22 18:43	1
Total Alkalinity as CaCO3 to pH 4.5	8.1		5.0	5.0	mg/L			03/09/22 19:08	1
Bicarbonate Alkalinity as CaCO3	8.1		5.0	5.0	mg/L			03/09/22 19:08	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.49				SU			03/03/22 11:52	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-13

Lab Sample ID: 180-134765-5

Date Collected: 03/03/22 13:13

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0		1.0	0.71	mg/L			03/15/22 19:07	1
Fluoride	0.21		0.10	0.026	mg/L			03/15/22 19:07	1
Sulfate	3.0		1.0	0.76	mg/L			03/15/22 19:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 13:57	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 13:57	1
Barium	0.045		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 13:57	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 13:57	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 13:57	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 13:57	1
Calcium	3.4		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 13:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 13:57	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 13:57	1
Lead	0.00023	J	0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 13:57	1
Lithium	0.0018	J	0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 13:57	1
Molybdenum	0.00094	J	0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 13:57	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 13:57	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 13:57	1
Sodium	9.6		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 13:57	1
Potassium	1.8		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 13:57	1
Iron	0.080	B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 13:57	1
Magnesium	0.53		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 13:57	1
Manganese	0.0026	J	0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 13:57	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	4.3		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 17:25	1
Total Dissolved Solids	71		10	10	mg/L			03/09/22 16:20	1
Total Alkalinity as CaCO3 to pH 4.5	28		5.0	5.0	mg/L			03/08/22 21:21	1
Bicarbonate Alkalinity as CaCO3	28		5.0	5.0	mg/L			03/08/22 21:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.31				SU			03/03/22 13:13	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-14A

Lab Sample ID: 180-134765-6

Date Collected: 03/03/22 14:07

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4		1.0	0.71	mg/L			03/15/22 22:39	1
Fluoride	0.057	J	0.10	0.026	mg/L			03/15/22 22:39	1
Sulfate	1.3		1.0	0.76	mg/L			03/15/22 22:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 14:05	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 14:05	1
Barium	0.029		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 14:05	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 14:05	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 14:05	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 14:05	1
Calcium	0.65		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 14:05	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 14:05	1
Cobalt	0.0024	J	0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 14:05	1
Lead	0.00057	J	0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 14:05	1
Lithium	0.0019	J	0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 14:05	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 14:05	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 14:05	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 14:05	1
Sodium	3.8		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 14:05	1
Potassium	1.6		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 14:05	1
Iron	0.23	B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 14:05	1
Magnesium	0.74		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 14:05	1
Manganese	0.057		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 14:05	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 12:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.5		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 17:35	1
Total Dissolved Solids	17		10	10	mg/L			03/09/22 16:20	1
Total Alkalinity as CaCO3 to pH 4.5	11		5.0	5.0	mg/L			03/08/22 20:25	1
Bicarbonate Alkalinity as CaCO3	11		5.0	5.0	mg/L			03/08/22 20:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.40				SU			03/03/22 14:07	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-11

Lab Sample ID: 180-134765-7

Date Collected: 03/03/22 15:30

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.6		1.0	0.71	mg/L			03/15/22 22:54	1
Fluoride	0.055	J	0.10	0.026	mg/L			03/15/22 22:54	1
Sulfate	2.3		1.0	0.76	mg/L			03/15/22 22:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 14:07	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 14:07	1
Barium	0.040		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 14:07	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 14:07	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 14:07	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 14:07	1
Calcium	1.3		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 14:07	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 14:07	1
Cobalt	0.00026	J	0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 14:07	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 14:07	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 14:07	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 14:07	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 14:07	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 14:07	1
Sodium	3.2		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 14:07	1
Potassium	1.1		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 14:07	1
Iron	0.084	B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 14:07	1
Magnesium	1.2		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 14:07	1
Manganese	0.019		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 14:07	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	4.6		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 14:28	1
Total Dissolved Solids	21		10	10	mg/L			03/09/22 16:20	1
Total Alkalinity as CaCO3 to pH 4.5	8.3		5.0	5.0	mg/L			03/08/22 20:18	1
Bicarbonate Alkalinity as CaCO3	8.3		5.0	5.0	mg/L			03/08/22 20:18	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.59				SU			03/03/22 15:30	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: FB-2

Lab Sample ID: 180-134765-8

Date Collected: 03/03/22 15:15

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/15/22 23:09	1
Fluoride	0.043	J	0.10	0.026	mg/L			03/15/22 23:09	1
Sulfate	<0.76		1.0	0.76	mg/L			03/15/22 23:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 14:10	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 14:10	1
Barium	<0.0031		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 14:10	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 14:10	1
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 14:10	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 14:10	1
Calcium	<0.13		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 14:10	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 14:10	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 14:10	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 14:10	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 14:10	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 14:10	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 14:10	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 14:10	1
Sodium	<0.18		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 14:10	1
Potassium	<0.16		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 14:10	1
Iron	<0.028		0.050	0.028	mg/L		03/11/22 08:06	03/15/22 14:10	1
Magnesium	<0.050		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 14:10	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 14:10	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	4.4		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 15:11	1
Total Dissolved Solids	<10		10	10	mg/L			03/09/22 16:20	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/08/22 19:40	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/08/22 19:40	1

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Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-25

Lab Sample ID: 180-134765-9

Date Collected: 03/04/22 10:50

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79		1.0	0.71	mg/L			03/16/22 00:25	1
Fluoride	0.038	J	0.10	0.026	mg/L			03/19/22 22:45	1
Sulfate	21		1.0	0.76	mg/L			03/16/22 00:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 14:12	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 14:12	1
Barium	0.38		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 14:12	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 14:12	1
Boron	0.72		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 14:12	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 14:12	1
Calcium	16		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 14:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 14:12	1
Cobalt	0.0040		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 14:12	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 14:12	1
Lithium	0.0035	J	0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 14:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 14:12	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 14:12	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 14:12	1
Sodium	11		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 14:12	1
Potassium	3.4		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 14:12	1
Iron	0.13	B	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 14:12	1
Magnesium	20		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 14:12	1
Manganese	0.16		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 14:12	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 16:53	1
Total Dissolved Solids	200		10	10	mg/L			03/09/22 16:20	1
Total Alkalinity as CaCO3 to pH 4.5	16		5.0	5.0	mg/L			03/12/22 02:53	1
Bicarbonate Alkalinity as CaCO3	16		5.0	5.0	mg/L			03/12/22 02:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.21				SU			03/04/22 10:50	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-20

Lab Sample ID: 180-134765-10

Date Collected: 03/04/22 12:11

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	330		10	7.1	mg/L			03/15/22 23:40	10
Fluoride	2.0		0.10	0.026	mg/L			03/15/22 23:25	1
Sulfate	390		10	7.6	mg/L			03/15/22 23:40	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0011	J	0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 14:15	1
Arsenic	0.00078	J	0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 14:15	1
Barium	<0.0031		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 14:15	1
Beryllium	0.010		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 14:15	1
Boron	4.3		0.080	0.060	mg/L		03/11/22 08:06	03/15/22 14:15	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 14:15	1
Calcium	200		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 14:15	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 14:15	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 14:15	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 14:15	1
Lithium	0.14		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 14:15	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 14:15	1
Selenium	0.0014	J	0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 14:15	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 14:15	1
Sodium	44		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 14:15	1
Potassium	5.8		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 14:15	1
Iron	<0.028		0.050	0.028	mg/L		03/11/22 08:06	03/15/22 14:15	1
Magnesium	49		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 14:15	1
Manganese	0.35		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 14:15	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	2.6	J	3.0	2.1	mg/L		03/08/22 12:00	03/08/22 17:08	1
Total Dissolved Solids	1100		10	10	mg/L			03/09/22 16:20	1
Total Alkalinity as CaCO3 to pH 4.5	6.8		5.0	5.0	mg/L			03/12/22 02:19	1
Bicarbonate Alkalinity as CaCO3	6.8		5.0	5.0	mg/L			03/12/22 02:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.23				SU			03/04/22 12:11	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: FB-3

Lab Sample ID: 180-134765-11

Date Collected: 03/04/22 11:50

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/16/22 00:40	1
Fluoride	0.042	J	0.10	0.026	mg/L			03/19/22 23:02	1
Sulfate	<0.76		1.0	0.76	mg/L			03/16/22 00:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 14:18	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 14:18	1
Barium	<0.0031		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 14:18	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 14:18	1
Boron	0.065	J	0.080	0.060	mg/L		03/11/22 08:06	03/15/22 14:18	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 14:18	1
Calcium	<0.13		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 14:18	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 14:18	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 14:18	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 14:18	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 14:18	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 14:18	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 14:18	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 14:18	1
Sodium	<0.18		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 14:18	1
Potassium	<0.16		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 14:18	1
Iron	<0.028		0.050	0.028	mg/L		03/11/22 08:06	03/15/22 14:18	1
Magnesium	<0.050		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 14:18	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 14:18	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 13:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	2.3	J	3.0	2.1	mg/L		03/08/22 12:00	03/08/22 17:23	1
Total Dissolved Solids	<10		10	10	mg/L			03/09/22 16:20	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/12/22 02:26	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/12/22 02:26	1

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Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: EB-3

Lab Sample ID: 180-134766-1

Date Collected: 03/04/22 13:15

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/09/22 17:46	1
Fluoride	<0.026		0.10	0.026	mg/L			03/09/22 17:46	1
Sulfate	1.2		1.0	0.76	mg/L			03/09/22 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/12/22 12:43	03/15/22 14:34	1
Arsenic	0.00037	J	0.0010	0.00028	mg/L		03/12/22 12:43	03/15/22 14:34	1
Barium	<0.0031		0.010	0.0031	mg/L		03/12/22 12:43	03/15/22 14:34	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 14:34	1
Boron	0.075	J	0.080	0.060	mg/L		03/12/22 12:43	03/15/22 14:34	1
Cadmium	0.00024	J	0.0025	0.00022	mg/L		03/12/22 12:43	03/15/22 14:34	1
Calcium	<0.13		0.50	0.13	mg/L		03/12/22 12:43	03/15/22 14:34	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/12/22 12:43	03/15/22 14:34	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/12/22 12:43	03/15/22 14:34	1
Lead	0.00024	J	0.0010	0.00017	mg/L		03/12/22 12:43	03/15/22 14:34	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 14:34	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/12/22 12:43	03/15/22 14:34	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/12/22 12:43	03/15/22 14:34	1
Thallium	0.00056	J	0.0010	0.00047	mg/L		03/12/22 12:43	03/15/22 14:34	1
Sodium	<0.18		0.50	0.18	mg/L		03/12/22 12:43	03/15/22 14:34	1
Potassium	<0.16		0.50	0.16	mg/L		03/12/22 12:43	03/15/22 14:34	1
Iron	<0.028		0.050	0.028	mg/L		03/12/22 12:43	03/15/22 14:34	1
Magnesium	<0.050		0.50	0.050	mg/L		03/12/22 12:43	03/15/22 14:34	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/12/22 12:43	03/15/22 14:34	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 13:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 17:37	1
Total Dissolved Solids	<10		10	10	mg/L			03/09/22 18:45	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/12/22 02:32	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/12/22 02:32	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Client Sample ID: WGWC-22

Lab Sample ID: 180-134766-2

Date Collected: 03/04/22 13:50

Matrix: Water

Date Received: 03/05/22 09:00

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.3	F1	1.0	0.71	mg/L			03/09/22 17:05	1
Fluoride	0.42	F1	0.10	0.026	mg/L			03/09/22 17:05	1
Sulfate	150	F1	1.0	0.76	mg/L			03/09/22 17:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00082	J	0.0020	0.00051	mg/L		03/12/22 12:43	03/15/22 14:52	1
Arsenic	0.00046	J	0.0010	0.00028	mg/L		03/12/22 12:43	03/15/22 14:52	1
Barium	0.038		0.010	0.0031	mg/L		03/12/22 12:43	03/15/22 14:52	1
Beryllium	0.00066	J	0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 14:52	1
Boron	0.41		0.080	0.060	mg/L		03/12/22 12:43	03/15/22 14:52	1
Cadmium	0.00025	J	0.0025	0.00022	mg/L		03/12/22 12:43	03/15/22 14:52	1
Calcium	31		0.50	0.13	mg/L		03/12/22 12:43	03/15/22 14:52	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/12/22 12:43	03/15/22 14:52	1
Cobalt	0.00034	J	0.0025	0.00026	mg/L		03/12/22 12:43	03/15/22 14:52	1
Lead	0.00036	J	0.0010	0.00017	mg/L		03/12/22 12:43	03/15/22 14:52	1
Lithium	0.011		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 14:52	1
Molybdenum	0.00084	J	0.015	0.00061	mg/L		03/12/22 12:43	03/15/22 14:52	1
Selenium	0.0072		0.0050	0.00074	mg/L		03/12/22 12:43	03/15/22 14:52	1
Thallium	0.00047	J	0.0010	0.00047	mg/L		03/12/22 12:43	03/15/22 14:52	1
Sodium	28	B	0.50	0.18	mg/L		03/12/22 12:43	03/15/22 14:52	1
Potassium	6.1		0.50	0.16	mg/L		03/12/22 12:43	03/15/22 14:52	1
Iron	0.25		0.050	0.028	mg/L		03/12/22 12:43	03/15/22 14:52	1
Magnesium	7.3		0.50	0.050	mg/L		03/12/22 12:43	03/15/22 14:52	1
Manganese	0.034	B	0.0050	0.0013	mg/L		03/12/22 12:43	03/15/22 14:52	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	5.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 17:52	1
Total Dissolved Solids	260		10	10	mg/L			03/09/22 18:45	1
Total Alkalinity as CaCO3 to pH 4.5	22		5.0	5.0	mg/L			03/12/22 02:38	1
Bicarbonate Alkalinity as CaCO3	22		5.0	5.0	mg/L			03/12/22 02:38	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.34				SU			03/04/22 13:50	1

QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-390804/7
Matrix: Water
Analysis Batch: 390804

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			03/08/22 12:26	1
Fluoride	<0.026		0.10	0.026	mg/L			03/08/22 12:26	1
Sulfate	<0.76		1.0	0.76	mg/L			03/08/22 12:26	1

Lab Sample ID: LCS 180-390804/5
Matrix: Water
Analysis Batch: 390804

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	49.0		mg/L		98	90 - 110
Fluoride	2.50	2.44		mg/L		98	90 - 110
Sulfate	50.0	50.0		mg/L		100	90 - 110

Lab Sample ID: 180-134765-1 MS
Matrix: Water
Analysis Batch: 390804

Client Sample ID: DUP-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	41	F1	50.0	90.0		mg/L		98	90 - 110
Fluoride	0.056	J	2.50	2.65		mg/L		104	90 - 110
Sulfate	55	F1	50.0	105		mg/L		100	90 - 110

Lab Sample ID: 180-134765-1 MSD
Matrix: Water
Analysis Batch: 390804

Client Sample ID: DUP-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	41	F1	50.0	84.3	F1	mg/L		87	90 - 110	6	20
Fluoride	0.056	J	2.50	2.46		mg/L		96	90 - 110	7	20
Sulfate	55	F1	50.0	98.4	F1	mg/L		86	90 - 110	7	20

Lab Sample ID: MB 180-390909/7
Matrix: Water
Analysis Batch: 390909

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			03/09/22 12:59	1
Fluoride	<0.026		0.10	0.026	mg/L			03/09/22 12:59	1
Sulfate	<0.76		1.0	0.76	mg/L			03/09/22 12:59	1

Lab Sample ID: LCS 180-390909/6
Matrix: Water
Analysis Batch: 390909

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
Fluoride	2.50	2.68		mg/L		107	90 - 110
Sulfate	50.0	51.3		mg/L		103	90 - 110

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 180-134766-2 MS
Matrix: Water
Analysis Batch: 390909

Client Sample ID: WGWC-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.3	F1	50.0	57.3		mg/L		104	90 - 110
Fluoride	0.42	F1	2.50	3.04		mg/L		105	90 - 110
Sulfate	150	F1	50.0	188	F1	mg/L		66	90 - 110

Lab Sample ID: 180-134766-2 MSD
Matrix: Water
Analysis Batch: 390909

Client Sample ID: WGWC-22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.3	F1	50.0	63.1	F1	mg/L		115	90 - 110	10	20
Fluoride	0.42	F1	2.50	3.40	F1	mg/L		119	90 - 110	11	20
Sulfate	150	F1	50.0	205	E	mg/L		100	90 - 110	9	20

Lab Sample ID: MB 180-391414/53
Matrix: Water
Analysis Batch: 391414

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			03/14/22 02:10	1
Fluoride	<0.026		0.10	0.026	mg/L			03/14/22 02:10	1
Sulfate	<0.76		1.0	0.76	mg/L			03/14/22 02:10	1

Lab Sample ID: LCS 180-391414/52
Matrix: Water
Analysis Batch: 391414

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	2.67		mg/L		107	90 - 110
Sulfate	50.0	51.5		mg/L		103	90 - 110

Lab Sample ID: 180-134763-2 MS
Matrix: Water
Analysis Batch: 391414

Client Sample ID: WGWC-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.2	F1	50.0	59.3	F1	mg/L		112	90 - 110
Fluoride	0.40	F1	2.50	3.23	F1	mg/L		113	90 - 110
Sulfate	4.8	F1	50.0	61.4	F1	mg/L		113	90 - 110

Lab Sample ID: 180-134763-2 MSD
Matrix: Water
Analysis Batch: 391414

Client Sample ID: WGWC-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.2	F1	50.0	58.4		mg/L		110	90 - 110	1	20
Fluoride	0.40	F1	2.50	3.18	F1	mg/L		111	90 - 110	1	20
Sulfate	4.8	F1	50.0	59.9		mg/L		110	90 - 110	3	20

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 180-391628/7
Matrix: Water
Analysis Batch: 391628

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			03/15/22 10:39	1
Fluoride	<0.026		0.10	0.026	mg/L			03/15/22 10:39	1
Sulfate	<0.76		1.0	0.76	mg/L			03/15/22 10:39	1

Lab Sample ID: LCS 180-391628/6
Matrix: Water
Analysis Batch: 391628

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	48.6		mg/L		97	90 - 110
Fluoride	2.50	2.55		mg/L		102	90 - 110
Sulfate	50.0	49.2		mg/L		98	90 - 110

Lab Sample ID: MB 180-392292/7
Matrix: Water
Analysis Batch: 392292

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			03/19/22 15:47	1
Fluoride	<0.026		0.10	0.026	mg/L			03/19/22 15:47	1
Sulfate	<0.76		1.0	0.76	mg/L			03/19/22 15:47	1

Lab Sample ID: LCS 180-392292/6
Matrix: Water
Analysis Batch: 392292

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	54.1		mg/L		108	90 - 110
Fluoride	2.50	2.27		mg/L		91	90 - 110
Sulfate	50.0	46.5		mg/L		93	90 - 110

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

Lab Sample ID: MB 180-391233/1-A
Matrix: Water
Analysis Batch: 391755

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 391233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/11/22 08:06	03/15/22 12:56	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/11/22 08:06	03/15/22 12:56	1
Barium	<0.0031		0.010	0.0031	mg/L		03/11/22 08:06	03/15/22 12:56	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/11/22 08:06	03/15/22 12:56	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/11/22 08:06	03/15/22 12:56	1
Calcium	<0.13		0.50	0.13	mg/L		03/11/22 08:06	03/15/22 12:56	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/11/22 08:06	03/15/22 12:56	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/11/22 08:06	03/15/22 12:56	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/11/22 08:06	03/15/22 12:56	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/11/22 08:06	03/15/22 12:56	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/11/22 08:06	03/15/22 12:56	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/11/22 08:06	03/15/22 12:56	1

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

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

Lab Sample ID: MB 180-391233/1-A
Matrix: Water
Analysis Batch: 391755

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 391233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00047		0.0010	0.00047	mg/L		03/11/22 08:06	03/15/22 12:56	1
Sodium	<0.18		0.50	0.18	mg/L		03/11/22 08:06	03/15/22 12:56	1
Potassium	<0.16		0.50	0.16	mg/L		03/11/22 08:06	03/15/22 12:56	1
Iron	0.0373	J	0.050	0.028	mg/L		03/11/22 08:06	03/15/22 12:56	1
Magnesium	<0.050		0.50	0.050	mg/L		03/11/22 08:06	03/15/22 12:56	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/11/22 08:06	03/15/22 12:56	1

Lab Sample ID: MB 180-391233/1-A
Matrix: Water
Analysis Batch: 391946

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 391233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.060		0.080	0.060	mg/L		03/11/22 08:06	03/16/22 12:26	1

Lab Sample ID: LCS 180-391233/2-A
Matrix: Water
Analysis Batch: 391755

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 391233

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.252		mg/L		101	80 - 120
Arsenic	1.00	0.993		mg/L		99	80 - 120
Barium	1.00	1.03		mg/L		103	80 - 120
Beryllium	0.500	0.500		mg/L		100	80 - 120
Cadmium	0.500	0.515		mg/L		103	80 - 120
Calcium	25.0	26.9		mg/L		108	80 - 120
Chromium	0.500	0.484		mg/L		97	80 - 120
Cobalt	0.500	0.484		mg/L		97	80 - 120
Lead	0.500	0.524		mg/L		105	80 - 120
Lithium	0.500	0.468		mg/L		94	80 - 120
Molybdenum	0.500	0.531		mg/L		106	80 - 120
Selenium	1.00	0.995		mg/L		100	80 - 120
Thallium	1.00	1.05		mg/L		105	80 - 120
Sodium	25.0	25.8		mg/L		103	80 - 120
Potassium	25.0	24.9		mg/L		99	80 - 120
Iron	5.00	5.38		mg/L		108	80 - 120
Magnesium	25.0	25.6		mg/L		103	80 - 120
Manganese	0.500	0.484		mg/L		97	80 - 120

Lab Sample ID: LCS 180-391233/2-A
Matrix: Water
Analysis Batch: 391946

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 391233

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.25	1.25		mg/L		100	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

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

Lab Sample ID: 180-134761-1 MS
Matrix: Water
Analysis Batch: 391755

Client Sample ID: WGWC-12
Prep Type: Total Recoverable
Prep Batch: 391233

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00051		0.250	0.251		mg/L		101	75 - 125
Arsenic	0.00037	J	1.00	0.982		mg/L		98	75 - 125
Barium	0.016		1.00	1.05		mg/L		103	75 - 125
Beryllium	<0.00027		0.500	0.498		mg/L		100	75 - 125
Cadmium	<0.00022		0.500	0.511		mg/L		102	75 - 125
Calcium	12		25.0	39.3		mg/L		111	75 - 125
Chromium	<0.0015		0.500	0.490		mg/L		98	75 - 125
Cobalt	0.00056	J	0.500	0.493		mg/L		99	75 - 125
Lead	0.00033	J	0.500	0.509		mg/L		102	75 - 125
Lithium	0.0061		0.500	0.480		mg/L		95	75 - 125
Molybdenum	<0.00061		0.500	0.527		mg/L		105	75 - 125
Selenium	<0.00074		1.00	1.00		mg/L		100	75 - 125
Thallium	<0.00047		1.00	1.02		mg/L		102	75 - 125
Sodium	5.8		25.0	31.4		mg/L		102	75 - 125
Potassium	2.0		25.0	27.1		mg/L		100	75 - 125
Iron	1.5	B	5.00	6.59		mg/L		102	75 - 125
Magnesium	2.9		25.0	28.6		mg/L		103	75 - 125
Manganese	0.013		0.500	0.497		mg/L		97	75 - 125

Lab Sample ID: 180-134761-1 MS
Matrix: Water
Analysis Batch: 391946

Client Sample ID: WGWC-12
Prep Type: Total Recoverable
Prep Batch: 391233

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	<0.060		1.25	1.30		mg/L		104	75 - 125

Lab Sample ID: 180-134761-1 MSD
Matrix: Water
Analysis Batch: 391755

Client Sample ID: WGWC-12
Prep Type: Total Recoverable
Prep Batch: 391233

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Antimony	<0.00051		0.250	0.250		mg/L		100	75 - 125	1	20
Arsenic	0.00037	J	1.00	0.996		mg/L		100	75 - 125	1	20
Barium	0.016		1.00	1.07		mg/L		105	75 - 125	2	20
Beryllium	<0.00027		0.500	0.489		mg/L		98	75 - 125	2	20
Cadmium	<0.00022		0.500	0.516		mg/L		103	75 - 125	1	20
Calcium	12		25.0	39.5		mg/L		112	75 - 125	1	20
Chromium	<0.0015		0.500	0.483		mg/L		97	75 - 125	1	20
Cobalt	0.00056	J	0.500	0.491		mg/L		98	75 - 125	1	20
Lead	0.00033	J	0.500	0.501		mg/L		100	75 - 125	2	20
Lithium	0.0061		0.500	0.483		mg/L		95	75 - 125	1	20
Molybdenum	<0.00061		0.500	0.544		mg/L		109	75 - 125	3	20
Selenium	<0.00074		1.00	1.03		mg/L		103	75 - 125	3	20
Thallium	<0.00047		1.00	0.996		mg/L		100	75 - 125	2	20
Sodium	5.8		25.0	32.7		mg/L		107	75 - 125	4	20
Potassium	2.0		25.0	28.2		mg/L		105	75 - 125	4	20
Iron	1.5	B	5.00	6.82		mg/L		107	75 - 125	4	20
Magnesium	2.9		25.0	29.0		mg/L		104	75 - 125	1	20
Manganese	0.013		0.500	0.499		mg/L		97	75 - 125	0	20

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

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

Lab Sample ID: 180-134761-1 MSD
Matrix: Water
Analysis Batch: 391946

Client Sample ID: WGWC-12
Prep Type: Total Recoverable
Prep Batch: 391233

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	<0.060		1.25	1.27		mg/L		101	75 - 125	3	20

Lab Sample ID: MB 180-391389/1-A
Matrix: Water
Analysis Batch: 391756

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 391389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/12/22 12:43	03/15/22 14:12	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/12/22 12:43	03/15/22 14:12	1
Barium	<0.0031		0.010	0.0031	mg/L		03/12/22 12:43	03/15/22 14:12	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 14:12	1
Boron	<0.060		0.080	0.060	mg/L		03/12/22 12:43	03/15/22 14:12	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/12/22 12:43	03/15/22 14:12	1
Calcium	<0.13		0.50	0.13	mg/L		03/12/22 12:43	03/15/22 14:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/12/22 12:43	03/15/22 14:12	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/12/22 12:43	03/15/22 14:12	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/12/22 12:43	03/15/22 14:12	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 14:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/12/22 12:43	03/15/22 14:12	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/12/22 12:43	03/15/22 14:12	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/12/22 12:43	03/15/22 14:12	1
Sodium	0.201	J	0.50	0.18	mg/L		03/12/22 12:43	03/15/22 14:12	1
Potassium	<0.16		0.50	0.16	mg/L		03/12/22 12:43	03/15/22 14:12	1
Iron	<0.028		0.050	0.028	mg/L		03/12/22 12:43	03/15/22 14:12	1
Magnesium	<0.050		0.50	0.050	mg/L		03/12/22 12:43	03/15/22 14:12	1
Manganese	0.00174	J	0.0050	0.0013	mg/L		03/12/22 12:43	03/15/22 14:12	1

Lab Sample ID: LCS 180-391389/2-A
Matrix: Water
Analysis Batch: 391756

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 391389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.262		mg/L		105	80 - 120
Arsenic	1.00	1.04		mg/L		104	80 - 120
Barium	1.00	1.03		mg/L		103	80 - 120
Beryllium	0.500	0.485		mg/L		97	80 - 120
Boron	1.25	1.19		mg/L		95	80 - 120
Cadmium	0.500	0.516		mg/L		103	80 - 120
Calcium	25.0	27.5		mg/L		110	80 - 120
Chromium	0.500	0.517		mg/L		103	80 - 120
Cobalt	0.500	0.528		mg/L		106	80 - 120
Lead	0.500	0.525		mg/L		105	80 - 120
Lithium	0.500	0.506		mg/L		101	80 - 120
Molybdenum	0.500	0.526		mg/L		105	80 - 120
Selenium	1.00	1.03		mg/L		103	80 - 120
Thallium	1.00	1.11		mg/L		111	80 - 120
Sodium	25.0	26.0		mg/L		104	80 - 120
Potassium	25.0	26.0		mg/L		104	80 - 120
Iron	5.00	5.39		mg/L		108	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

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

Lab Sample ID: LCS 180-391389/2-A
Matrix: Water
Analysis Batch: 391756

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 391389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	25.0	25.5		mg/L		102	80 - 120
Manganese	0.500	0.514		mg/L		103	80 - 120

Lab Sample ID: 180-134766-1 MS
Matrix: Water
Analysis Batch: 391756

Client Sample ID: EB-3
Prep Type: Total Recoverable
Prep Batch: 391389

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00051		0.250	0.257		mg/L		103	75 - 125
Arsenic	0.00037	J	1.00	1.02		mg/L		102	75 - 125
Barium	<0.0031		1.00	1.02		mg/L		102	75 - 125
Beryllium	<0.00027		0.500	0.483		mg/L		97	75 - 125
Boron	0.075	J	1.25	1.15		mg/L		86	75 - 125
Cadmium	0.00024	J	0.500	0.518		mg/L		104	75 - 125
Calcium	<0.13		25.0	26.8		mg/L		107	75 - 125
Chromium	<0.0015		0.500	0.511		mg/L		102	75 - 125
Cobalt	<0.00026		0.500	0.520		mg/L		104	75 - 125
Lead	0.00024	J	0.500	0.517		mg/L		103	75 - 125
Lithium	<0.00083		0.500	0.492		mg/L		98	75 - 125
Molybdenum	<0.00061		0.500	0.519		mg/L		104	75 - 125
Selenium	<0.00074		1.00	1.01		mg/L		101	75 - 125
Thallium	0.00056	J	1.00	1.09		mg/L		109	75 - 125
Sodium	<0.18		25.0	26.2		mg/L		105	75 - 125
Potassium	<0.16		25.0	25.7		mg/L		103	75 - 125
Iron	<0.028		5.00	5.31		mg/L		106	75 - 125
Magnesium	<0.050		25.0	25.3		mg/L		101	75 - 125
Manganese	<0.0013		0.500	0.505		mg/L		101	75 - 125

Lab Sample ID: 180-134766-1 MSD
Matrix: Water
Analysis Batch: 391756

Client Sample ID: EB-3
Prep Type: Total Recoverable
Prep Batch: 391389

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00051		0.250	0.263		mg/L		105	75 - 125	2	20
Arsenic	0.00037	J	1.00	1.03		mg/L		103	75 - 125	1	20
Barium	<0.0031		1.00	1.05		mg/L		105	75 - 125	2	20
Beryllium	<0.00027		0.500	0.478		mg/L		96	75 - 125	1	20
Boron	0.075	J	1.25	1.21		mg/L		90	75 - 125	4	20
Cadmium	0.00024	J	0.500	0.527		mg/L		105	75 - 125	2	20
Calcium	<0.13		25.0	26.9		mg/L		108	75 - 125	0	20
Chromium	<0.0015		0.500	0.525		mg/L		105	75 - 125	3	20
Cobalt	<0.00026		0.500	0.524		mg/L		105	75 - 125	1	20
Lead	0.00024	J	0.500	0.526		mg/L		105	75 - 125	2	20
Lithium	<0.00083		0.500	0.504		mg/L		101	75 - 125	2	20
Molybdenum	<0.00061		0.500	0.529		mg/L		106	75 - 125	2	20
Selenium	<0.00074		1.00	1.03		mg/L		103	75 - 125	2	20
Thallium	0.00056	J	1.00	1.12		mg/L		112	75 - 125	2	20
Sodium	<0.18		25.0	26.7		mg/L		107	75 - 125	2	20
Potassium	<0.16		25.0	26.2		mg/L		105	75 - 125	2	20

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

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

Lab Sample ID: 180-134766-1 MSD
Matrix: Water
Analysis Batch: 391756

Client Sample ID: EB-3
Prep Type: Total Recoverable
Prep Batch: 391389

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	<0.028		5.00	5.41		mg/L		108	75 - 125	2	20
Magnesium	<0.050		25.0	25.8		mg/L		103	75 - 125	2	20
Manganese	<0.0013		0.500	0.508		mg/L		102	75 - 125	1	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-391840/1-A
Matrix: Water
Analysis Batch: 392076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 391840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 11:31	03/17/22 12:17	1

Lab Sample ID: LCS 180-391840/2-A
Matrix: Water
Analysis Batch: 392076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 391840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00277		mg/L		111	80 - 120

Lab Sample ID: MB 180-391862/1-A
Matrix: Water
Analysis Batch: 392076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 391862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:24	03/17/22 12:44	1

Lab Sample ID: LCS 180-391862/2-A
Matrix: Water
Analysis Batch: 392076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 391862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00215		mg/L		86	80 - 120

Lab Sample ID: 180-134765-1 MS
Matrix: Water
Analysis Batch: 392076

Client Sample ID: DUP-2
Prep Type: Total/NA
Prep Batch: 391862

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00013		0.00100	0.00101		mg/L		101	75 - 125

Lab Sample ID: 180-134765-1 MSD
Matrix: Water
Analysis Batch: 392076

Client Sample ID: DUP-2
Prep Type: Total/NA
Prep Batch: 391862

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00013		0.00100	0.00111		mg/L		111	75 - 125	9	20

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

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

Lab Sample ID: MB 180-391865/1-A
Matrix: Water
Analysis Batch: 392076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 391865

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/16/22 12:26	03/17/22 13:13	1

Lab Sample ID: LCS 180-391865/2-A
Matrix: Water
Analysis Batch: 392076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 391865

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00251		mg/L		100	80 - 120

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 180-390812/1-A
Matrix: Water
Analysis Batch: 390865

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 390812

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 13:51	1

Lab Sample ID: LCS 180-390812/2-A
Matrix: Water
Analysis Batch: 390865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 390812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	14.4	15.3		mg/L		106	85 - 115

Lab Sample ID: MB 180-390813/1-A
Matrix: Water
Analysis Batch: 390867

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 390813

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 13:59	1

Lab Sample ID: LCS 180-390813/2-A
Matrix: Water
Analysis Batch: 390867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 390813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	14.4	14.3		mg/L		99	85 - 115

Lab Sample ID: 180-134765-7 MS
Matrix: Water
Analysis Batch: 390867

Client Sample ID: WGWC-11
Prep Type: Total/NA
Prep Batch: 390813

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	4.6		14.4	15.4		mg/L		75	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: 180-134765-7 MSD
Matrix: Water
Analysis Batch: 390867

Client Sample ID: WGWC-11
Prep Type: Total/NA
Prep Batch: 390813

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	4.6		14.4	15.7		mg/L		77	75 - 125	2	20

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

Lab Sample ID: MB 180-390883/2
Matrix: Water
Analysis Batch: 390883

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			03/08/22 18:43	1

Lab Sample ID: LCS 180-390883/1
Matrix: Water
Analysis Batch: 390883

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	469	452		mg/L		96	85 - 115

Lab Sample ID: 180-134763-7 DU
Matrix: Water
Analysis Batch: 390883

Client Sample ID: WGWC-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	580		574		mg/L		1	10

Lab Sample ID: MB 180-391026/2
Matrix: Water
Analysis Batch: 391026

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			03/09/22 16:20	1

Lab Sample ID: LCS 180-391026/1
Matrix: Water
Analysis Batch: 391026

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	469	444		mg/L		95	85 - 115

Lab Sample ID: MB 180-391040/2
Matrix: Water
Analysis Batch: 391040

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			03/09/22 18:45	1

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

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

Lab Sample ID: LCS 180-391040/1
Matrix: Water
Analysis Batch: 391040

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	469	448		mg/L		96	85 - 115

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-390904/30
Matrix: Water
Analysis Batch: 390904

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			03/08/22 18:30	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/08/22 18:30	1

Lab Sample ID: MB 180-390904/54
Matrix: Water
Analysis Batch: 390904

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			03/08/22 21:14	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/08/22 21:14	1

Lab Sample ID: MB 180-390904/6
Matrix: Water
Analysis Batch: 390904

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	5.54		5.0	5.0	mg/L			03/08/22 15:48	1
Bicarbonate Alkalinity as CaCO3	5.54		5.0	5.0	mg/L			03/08/22 15:48	1

Lab Sample ID: LCS 180-390904/29
Matrix: Water
Analysis Batch: 390904

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	242		mg/L		91	90 - 110

Lab Sample ID: LCS 180-390904/53
Matrix: Water
Analysis Batch: 390904

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	249		mg/L		94	90 - 110

Lab Sample ID: LLCS 180-390904/28
Matrix: Water
Analysis Batch: 390904

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	14.1		mg/L		89	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: LLCS 180-390904/52
Matrix: Water
Analysis Batch: 390904

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	14.1		mg/L		89	75 - 125

Lab Sample ID: 180-134765-5 DU
Matrix: Water
Analysis Batch: 390904

Client Sample ID: WGWC-13
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	28		29.4		mg/L		6	20
Bicarbonate Alkalinity as CaCO3	28		29.4		mg/L		6	20

Lab Sample ID: 180-134765-8 DU
Matrix: Water
Analysis Batch: 390904

Client Sample ID: FB-2
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

Lab Sample ID: MB 180-391320/30
Matrix: Water
Analysis Batch: 391320

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			03/09/22 19:59	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/09/22 19:59	1

Lab Sample ID: MB 180-391320/6
Matrix: Water
Analysis Batch: 391320

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			03/09/22 17:15	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/09/22 17:15	1

Lab Sample ID: LCS 180-391320/29
Matrix: Water
Analysis Batch: 391320

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	242		mg/L		92	90 - 110

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LCS 180-391320/5
Matrix: Water
Analysis Batch: 391320

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	240		mg/L		91	90 - 110

Lab Sample ID: LLCS 180-391320/28
Matrix: Water
Analysis Batch: 391320

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	13.7		mg/L		86	75 - 125

Lab Sample ID: LLCS 180-391320/4
Matrix: Water
Analysis Batch: 391320

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	14.1		mg/L		88	75 - 125

Lab Sample ID: 180-134763-10 DU
Matrix: Water
Analysis Batch: 391320

Client Sample ID: WGWC-17
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	41		40.8		mg/L		0.6	20
Bicarbonate Alkalinity as CaCO3	41		40.8		mg/L		0.6	20

Lab Sample ID: MB 180-391369/30
Matrix: Water
Analysis Batch: 391369

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			03/11/22 22:03	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/11/22 22:03	1

Lab Sample ID: MB 180-391369/54
Matrix: Water
Analysis Batch: 391369

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			03/12/22 00:52	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/12/22 00:52	1

Lab Sample ID: LCS 180-391369/53
Matrix: Water
Analysis Batch: 391369

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	248		mg/L		94	90 - 110

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LLCS 180-391369/52
Matrix: Water
Analysis Batch: 391369

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	15.1		mg/L		95	75 - 125

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

QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

HPLC/IC

Analysis Batch: 390804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-5	WGWC-10	Total/NA	Water	EPA 300.0 R2.1	
180-134763-6	WGWC-24	Total/NA	Water	EPA 300.0 R2.1	
180-134763-7	WGWC-21	Total/NA	Water	EPA 300.0 R2.1	
180-134763-9	WGWC-23	Total/NA	Water	EPA 300.0 R2.1	
180-134763-10	WGWC-17	Total/NA	Water	EPA 300.0 R2.1	
180-134763-11	Dup-3	Total/NA	Water	EPA 300.0 R2.1	
180-134765-1	DUP-2	Total/NA	Water	EPA 300.0 R2.1	
180-134765-2	WGWC-15	Total/NA	Water	EPA 300.0 R2.1	
180-134765-3	WGWC-16	Total/NA	Water	EPA 300.0 R2.1	
180-134765-4	WGWA-7	Total/NA	Water	EPA 300.0 R2.1	
MB 180-390804/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-390804/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-134765-1 MS	DUP-2	Total/NA	Water	EPA 300.0 R2.1	
180-134765-1 MSD	DUP-2	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 390909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total/NA	Water	EPA 300.0 R2.1	
180-134766-1	EB-3	Total/NA	Water	EPA 300.0 R2.1	
180-134766-2	WGWC-22	Total/NA	Water	EPA 300.0 R2.1	
MB 180-390909/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-390909/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-134766-2 MS	WGWC-22	Total/NA	Water	EPA 300.0 R2.1	
180-134766-2 MSD	WGWC-22	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 391414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-2	WGWC-19	Total/NA	Water	EPA 300.0 R2.1	
MB 180-391414/53	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-391414/52	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-134763-2 MS	WGWC-19	Total/NA	Water	EPA 300.0 R2.1	
180-134763-2 MSD	WGWC-19	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 391628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134765-5	WGWC-13	Total/NA	Water	EPA 300.0 R2.1	
180-134765-6	WGWC-14A	Total/NA	Water	EPA 300.0 R2.1	
180-134765-7	WGWC-11	Total/NA	Water	EPA 300.0 R2.1	
180-134765-8	FB-2	Total/NA	Water	EPA 300.0 R2.1	
180-134765-9	WGWC-25	Total/NA	Water	EPA 300.0 R2.1	
180-134765-10	WGWC-20	Total/NA	Water	EPA 300.0 R2.1	
180-134765-10	WGWC-20	Total/NA	Water	EPA 300.0 R2.1	
180-134765-11	FB-3	Total/NA	Water	EPA 300.0 R2.1	
MB 180-391628/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-391628/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 392292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134765-9	WGWC-25	Total/NA	Water	EPA 300.0 R2.1	
180-134765-11	FB-3	Total/NA	Water	EPA 300.0 R2.1	
MB 180-392292/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	

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QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

HPLC/IC (Continued)

Analysis Batch: 392292 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-392292/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 391233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total Recoverable	Water	3005A	
180-134763-2	WGWC-19	Total Recoverable	Water	3005A	
180-134763-5	WGWC-10	Total Recoverable	Water	3005A	
180-134763-6	WGWC-24	Total Recoverable	Water	3005A	
180-134763-7	WGWC-21	Total Recoverable	Water	3005A	
180-134763-9	WGWC-23	Total Recoverable	Water	3005A	
180-134763-10	WGWC-17	Total Recoverable	Water	3005A	
180-134763-11	Dup-3	Total Recoverable	Water	3005A	
180-134765-1	DUP-2	Total Recoverable	Water	3005A	
180-134765-2	WGWC-15	Total Recoverable	Water	3005A	
180-134765-3	WGWC-16	Total Recoverable	Water	3005A	
180-134765-4	WGWA-7	Total Recoverable	Water	3005A	
180-134765-5	WGWC-13	Total Recoverable	Water	3005A	
180-134765-6	WGWC-14A	Total Recoverable	Water	3005A	
180-134765-7	WGWC-11	Total Recoverable	Water	3005A	
180-134765-8	FB-2	Total Recoverable	Water	3005A	
180-134765-9	WGWC-25	Total Recoverable	Water	3005A	
180-134765-10	WGWC-20	Total Recoverable	Water	3005A	
180-134765-11	FB-3	Total Recoverable	Water	3005A	
MB 180-391233/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-391233/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-134761-1 MS	WGWC-12	Total Recoverable	Water	3005A	
180-134761-1 MSD	WGWC-12	Total Recoverable	Water	3005A	

Prep Batch: 391389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134766-1	EB-3	Total Recoverable	Water	3005A	
180-134766-2	WGWC-22	Total Recoverable	Water	3005A	
MB 180-391389/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-391389/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-134766-1 MS	EB-3	Total Recoverable	Water	3005A	
180-134766-1 MSD	EB-3	Total Recoverable	Water	3005A	

Analysis Batch: 391755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total Recoverable	Water	EPA 6020B	391233
180-134763-2	WGWC-19	Total Recoverable	Water	EPA 6020B	391233
180-134763-5	WGWC-10	Total Recoverable	Water	EPA 6020B	391233
180-134763-6	WGWC-24	Total Recoverable	Water	EPA 6020B	391233
180-134763-7	WGWC-21	Total Recoverable	Water	EPA 6020B	391233
180-134763-9	WGWC-23	Total Recoverable	Water	EPA 6020B	391233
180-134763-10	WGWC-17	Total Recoverable	Water	EPA 6020B	391233
180-134763-11	Dup-3	Total Recoverable	Water	EPA 6020B	391233
180-134765-1	DUP-2	Total Recoverable	Water	EPA 6020B	391233
180-134765-2	WGWC-15	Total Recoverable	Water	EPA 6020B	391233

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QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Metals (Continued)

Analysis Batch: 391755 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134765-3	WGWC-16	Total Recoverable	Water	EPA 6020B	391233
180-134765-4	WGWA-7	Total Recoverable	Water	EPA 6020B	391233
180-134765-5	WGWC-13	Total Recoverable	Water	EPA 6020B	391233
180-134765-6	WGWC-14A	Total Recoverable	Water	EPA 6020B	391233
180-134765-7	WGWC-11	Total Recoverable	Water	EPA 6020B	391233
180-134765-8	FB-2	Total Recoverable	Water	EPA 6020B	391233
180-134765-9	WGWC-25	Total Recoverable	Water	EPA 6020B	391233
180-134765-10	WGWC-20	Total Recoverable	Water	EPA 6020B	391233
180-134765-11	FB-3	Total Recoverable	Water	EPA 6020B	391233
MB 180-391233/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	391233
LCS 180-391233/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	391233
180-134761-1 MS	WGWC-12	Total Recoverable	Water	EPA 6020B	391233
180-134761-1 MSD	WGWC-12	Total Recoverable	Water	EPA 6020B	391233

Analysis Batch: 391756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134766-1	EB-3	Total Recoverable	Water	EPA 6020B	391389
180-134766-2	WGWC-22	Total Recoverable	Water	EPA 6020B	391389
MB 180-391389/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	391389
LCS 180-391389/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	391389
180-134766-1 MS	EB-3	Total Recoverable	Water	EPA 6020B	391389
180-134766-1 MSD	EB-3	Total Recoverable	Water	EPA 6020B	391389

Prep Batch: 391840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total/NA	Water	7470A	
180-134763-2	WGWC-19	Total/NA	Water	7470A	
MB 180-391840/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-391840/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 391862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134765-1	DUP-2	Total/NA	Water	7470A	
180-134765-2	WGWC-15	Total/NA	Water	7470A	
180-134765-3	WGWC-16	Total/NA	Water	7470A	
180-134765-4	WGWA-7	Total/NA	Water	7470A	
180-134765-5	WGWC-13	Total/NA	Water	7470A	
180-134765-6	WGWC-14A	Total/NA	Water	7470A	
180-134765-7	WGWC-11	Total/NA	Water	7470A	
180-134765-8	FB-2	Total/NA	Water	7470A	
180-134765-9	WGWC-25	Total/NA	Water	7470A	
180-134765-10	WGWC-20	Total/NA	Water	7470A	
180-134765-11	FB-3	Total/NA	Water	7470A	
180-134766-1	EB-3	Total/NA	Water	7470A	
180-134766-2	WGWC-22	Total/NA	Water	7470A	
MB 180-391862/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-391862/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-134765-1 MS	DUP-2	Total/NA	Water	7470A	
180-134765-1 MSD	DUP-2	Total/NA	Water	7470A	

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QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Metals

Prep Batch: 391865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-5	WGWC-10	Total/NA	Water	7470A	
180-134763-6	WGWC-24	Total/NA	Water	7470A	
180-134763-7	WGWC-21	Total/NA	Water	7470A	
180-134763-9	WGWC-23	Total/NA	Water	7470A	
180-134763-10	WGWC-17	Total/NA	Water	7470A	
180-134763-11	Dup-3	Total/NA	Water	7470A	
MB 180-391865/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-391865/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 391946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total Recoverable	Water	EPA 6020B	391233
180-134763-2	WGWC-19	Total Recoverable	Water	EPA 6020B	391233
180-134763-5	WGWC-10	Total Recoverable	Water	EPA 6020B	391233
180-134763-6	WGWC-24	Total Recoverable	Water	EPA 6020B	391233
MB 180-391233/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	391233
LCS 180-391233/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	391233
180-134761-1 MS	WGWC-12	Total Recoverable	Water	EPA 6020B	391233
180-134761-1 MSD	WGWC-12	Total Recoverable	Water	EPA 6020B	391233

Analysis Batch: 392076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total/NA	Water	EPA 7470A	391840
180-134763-2	WGWC-19	Total/NA	Water	EPA 7470A	391840
180-134763-5	WGWC-10	Total/NA	Water	EPA 7470A	391865
180-134763-6	WGWC-24	Total/NA	Water	EPA 7470A	391865
180-134763-7	WGWC-21	Total/NA	Water	EPA 7470A	391865
180-134763-9	WGWC-23	Total/NA	Water	EPA 7470A	391865
180-134763-10	WGWC-17	Total/NA	Water	EPA 7470A	391865
180-134763-11	Dup-3	Total/NA	Water	EPA 7470A	391865
180-134765-1	DUP-2	Total/NA	Water	EPA 7470A	391862
180-134765-2	WGWC-15	Total/NA	Water	EPA 7470A	391862
180-134765-3	WGWC-16	Total/NA	Water	EPA 7470A	391862
180-134765-4	WGWA-7	Total/NA	Water	EPA 7470A	391862
180-134765-5	WGWC-13	Total/NA	Water	EPA 7470A	391862
180-134765-6	WGWC-14A	Total/NA	Water	EPA 7470A	391862
180-134765-7	WGWC-11	Total/NA	Water	EPA 7470A	391862
180-134765-8	FB-2	Total/NA	Water	EPA 7470A	391862
180-134765-9	WGWC-25	Total/NA	Water	EPA 7470A	391862
180-134765-10	WGWC-20	Total/NA	Water	EPA 7470A	391862
180-134765-11	FB-3	Total/NA	Water	EPA 7470A	391862
180-134766-1	EB-3	Total/NA	Water	EPA 7470A	391862
180-134766-2	WGWC-22	Total/NA	Water	EPA 7470A	391862
MB 180-391840/1-A	Method Blank	Total/NA	Water	EPA 7470A	391840
MB 180-391862/1-A	Method Blank	Total/NA	Water	EPA 7470A	391862
MB 180-391865/1-A	Method Blank	Total/NA	Water	EPA 7470A	391865
LCS 180-391840/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	391840
LCS 180-391862/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	391862
LCS 180-391865/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	391865
180-134765-1 MS	DUP-2	Total/NA	Water	EPA 7470A	391862
180-134765-1 MSD	DUP-2	Total/NA	Water	EPA 7470A	391862

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

General Chemistry

Prep Batch: 390812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-2	WGWC-19	Total/NA	Water	9030B	
180-134763-5	WGWC-10	Total/NA	Water	9030B	
180-134763-6	WGWC-24	Total/NA	Water	9030B	
180-134763-7	WGWC-21	Total/NA	Water	9030B	
180-134765-1	DUP-2	Total/NA	Water	9030B	
180-134765-2	WGWC-15	Total/NA	Water	9030B	
180-134765-3	WGWC-16	Total/NA	Water	9030B	
180-134765-4	WGWA-7	Total/NA	Water	9030B	
180-134765-5	WGWC-13	Total/NA	Water	9030B	
180-134765-6	WGWC-14A	Total/NA	Water	9030B	
MB 180-390812/1-A	Method Blank	Total/NA	Water	9030B	
LCS 180-390812/2-A	Lab Control Sample	Total/NA	Water	9030B	

Prep Batch: 390813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total/NA	Water	9030B	
180-134763-9	WGWC-23	Total/NA	Water	9030B	
180-134763-10	WGWC-17	Total/NA	Water	9030B	
180-134763-11	Dup-3	Total/NA	Water	9030B	
180-134765-7	WGWC-11	Total/NA	Water	9030B	
180-134765-8	FB-2	Total/NA	Water	9030B	
180-134765-9	WGWC-25	Total/NA	Water	9030B	
180-134765-10	WGWC-20	Total/NA	Water	9030B	
180-134765-11	FB-3	Total/NA	Water	9030B	
180-134766-1	EB-3	Total/NA	Water	9030B	
180-134766-2	WGWC-22	Total/NA	Water	9030B	
MB 180-390813/1-A	Method Blank	Total/NA	Water	9030B	
LCS 180-390813/2-A	Lab Control Sample	Total/NA	Water	9030B	
180-134765-7 MS	WGWC-11	Total/NA	Water	9030B	
180-134765-7 MSD	WGWC-11	Total/NA	Water	9030B	

Analysis Batch: 390865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-2	WGWC-19	Total/NA	Water	EPA 9034	390812
180-134763-5	WGWC-10	Total/NA	Water	EPA 9034	390812
180-134763-6	WGWC-24	Total/NA	Water	EPA 9034	390812
180-134763-7	WGWC-21	Total/NA	Water	EPA 9034	390812
180-134765-1	DUP-2	Total/NA	Water	EPA 9034	390812
180-134765-2	WGWC-15	Total/NA	Water	EPA 9034	390812
180-134765-3	WGWC-16	Total/NA	Water	EPA 9034	390812
180-134765-4	WGWA-7	Total/NA	Water	EPA 9034	390812
180-134765-5	WGWC-13	Total/NA	Water	EPA 9034	390812
180-134765-6	WGWC-14A	Total/NA	Water	EPA 9034	390812
MB 180-390812/1-A	Method Blank	Total/NA	Water	EPA 9034	390812
LCS 180-390812/2-A	Lab Control Sample	Total/NA	Water	EPA 9034	390812

Analysis Batch: 390867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total/NA	Water	EPA 9034	390813
180-134763-9	WGWC-23	Total/NA	Water	EPA 9034	390813
180-134763-10	WGWC-17	Total/NA	Water	EPA 9034	390813

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

General Chemistry (Continued)

Analysis Batch: 390867 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-11	Dup-3	Total/NA	Water	EPA 9034	390813
180-134765-7	WGWC-11	Total/NA	Water	EPA 9034	390813
180-134765-8	FB-2	Total/NA	Water	EPA 9034	390813
180-134765-9	WGWC-25	Total/NA	Water	EPA 9034	390813
180-134765-10	WGWC-20	Total/NA	Water	EPA 9034	390813
180-134765-11	FB-3	Total/NA	Water	EPA 9034	390813
180-134766-1	EB-3	Total/NA	Water	EPA 9034	390813
180-134766-2	WGWC-22	Total/NA	Water	EPA 9034	390813
MB 180-390813/1-A	Method Blank	Total/NA	Water	EPA 9034	390813
LCS 180-390813/2-A	Lab Control Sample	Total/NA	Water	EPA 9034	390813
180-134765-7 MS	WGWC-11	Total/NA	Water	EPA 9034	390813
180-134765-7 MSD	WGWC-11	Total/NA	Water	EPA 9034	390813

Analysis Batch: 390883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-5	WGWC-10	Total/NA	Water	SM 2540C	
180-134763-6	WGWC-24	Total/NA	Water	SM 2540C	
180-134763-7	WGWC-21	Total/NA	Water	SM 2540C	
180-134763-9	WGWC-23	Total/NA	Water	SM 2540C	
180-134763-10	WGWC-17	Total/NA	Water	SM 2540C	
180-134763-11	Dup-3	Total/NA	Water	SM 2540C	
180-134765-1	DUP-2	Total/NA	Water	SM 2540C	
180-134765-2	WGWC-15	Total/NA	Water	SM 2540C	
180-134765-3	WGWC-16	Total/NA	Water	SM 2540C	
180-134765-4	WGWA-7	Total/NA	Water	SM 2540C	
MB 180-390883/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-390883/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-134763-7 DU	WGWC-21	Total/NA	Water	SM 2540C	

Analysis Batch: 390904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-2	WGWC-19	Total/NA	Water	SM2320 B	
180-134765-5	WGWC-13	Total/NA	Water	SM2320 B	
180-134765-6	WGWC-14A	Total/NA	Water	SM2320 B	
180-134765-7	WGWC-11	Total/NA	Water	SM2320 B	
180-134765-8	FB-2	Total/NA	Water	SM2320 B	
MB 180-390904/30	Method Blank	Total/NA	Water	SM2320 B	
MB 180-390904/54	Method Blank	Total/NA	Water	SM2320 B	
MB 180-390904/6	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-390904/29	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-390904/53	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-390904/28	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-390904/52	Lab Control Sample	Total/NA	Water	SM2320 B	
180-134765-5 DU	WGWC-13	Total/NA	Water	SM2320 B	
180-134765-8 DU	FB-2	Total/NA	Water	SM2320 B	

Analysis Batch: 391026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-2	WGWC-19	Total/NA	Water	SM 2540C	
180-134765-5	WGWC-13	Total/NA	Water	SM 2540C	
180-134765-6	WGWC-14A	Total/NA	Water	SM 2540C	

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

General Chemistry (Continued)

Analysis Batch: 391026 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134765-7	WGWC-11	Total/NA	Water	SM 2540C	
180-134765-8	FB-2	Total/NA	Water	SM 2540C	
180-134765-9	WGWC-25	Total/NA	Water	SM 2540C	
180-134765-10	WGWC-20	Total/NA	Water	SM 2540C	
180-134765-11	FB-3	Total/NA	Water	SM 2540C	
MB 180-391026/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-391026/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 391040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total/NA	Water	SM 2540C	
180-134766-1	EB-3	Total/NA	Water	SM 2540C	
180-134766-2	WGWC-22	Total/NA	Water	SM 2540C	
MB 180-391040/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-391040/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 391320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-5	WGWC-10	Total/NA	Water	SM2320 B	
180-134763-6	WGWC-24	Total/NA	Water	SM2320 B	
180-134763-7	WGWC-21	Total/NA	Water	SM2320 B	
180-134763-9	WGWC-23	Total/NA	Water	SM2320 B	
180-134763-10	WGWC-17	Total/NA	Water	SM2320 B	
180-134763-11	Dup-3	Total/NA	Water	SM2320 B	
180-134765-1	DUP-2	Total/NA	Water	SM2320 B	
180-134765-2	WGWC-15	Total/NA	Water	SM2320 B	
180-134765-3	WGWC-16	Total/NA	Water	SM2320 B	
180-134765-4	WGWA-7	Total/NA	Water	SM2320 B	
MB 180-391320/30	Method Blank	Total/NA	Water	SM2320 B	
MB 180-391320/6	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-391320/29	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-391320/5	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-391320/28	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-391320/4	Lab Control Sample	Total/NA	Water	SM2320 B	
180-134763-10 DU	WGWC-17	Total/NA	Water	SM2320 B	

Analysis Batch: 391369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total/NA	Water	SM2320 B	
180-134765-9	WGWC-25	Total/NA	Water	SM2320 B	
180-134765-10	WGWC-20	Total/NA	Water	SM2320 B	
180-134765-11	FB-3	Total/NA	Water	SM2320 B	
180-134766-1	EB-3	Total/NA	Water	SM2320 B	
180-134766-2	WGWC-22	Total/NA	Water	SM2320 B	
MB 180-391369/30	Method Blank	Total/NA	Water	SM2320 B	
MB 180-391369/54	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-391369/53	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-391369/52	Lab Control Sample	Total/NA	Water	SM2320 B	

QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-1

Field Service / Mobile Lab

Analysis Batch: 391279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total/NA	Water	Field Sampling	
180-134763-2	WGWC-19	Total/NA	Water	Field Sampling	
180-134763-5	WGWC-10	Total/NA	Water	Field Sampling	
180-134763-6	WGWC-24	Total/NA	Water	Field Sampling	
180-134763-7	WGWC-21	Total/NA	Water	Field Sampling	
180-134763-9	WGWC-23	Total/NA	Water	Field Sampling	
180-134763-10	WGWC-17	Total/NA	Water	Field Sampling	

Analysis Batch: 391283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134765-2	WGWC-15	Total/NA	Water	Field Sampling	
180-134765-3	WGWC-16	Total/NA	Water	Field Sampling	
180-134765-4	WGWA-7	Total/NA	Water	Field Sampling	
180-134765-5	WGWC-13	Total/NA	Water	Field Sampling	
180-134765-6	WGWC-14A	Total/NA	Water	Field Sampling	
180-134765-7	WGWC-11	Total/NA	Water	Field Sampling	
180-134765-9	WGWC-25	Total/NA	Water	Field Sampling	
180-134765-10	WGWC-20	Total/NA	Water	Field Sampling	

Analysis Batch: 391685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134766-2	WGWC-22	Total/NA	Water	Field Sampling	

Chain of Custody Record

Client Information		Sampler: <u>T. Johnson</u>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:							
Client Contact: SCS Contacts		Phone: <u>770-594-5997</u>		E-Mail: <u>shali.brown@eurofinset.com</u>				Page:							
Company: GA Power				Analysis Requested						Job #:					
Address: 241 Ralph McGill Blvd SE										Due Date Requested:		Preservation Codes:			
City: Atlanta		TAT Requested (days):		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	App III Metals: B, Ca	Cl, F, SO & TDS (EPA 300 & SM 2540C)	App IV Metals (EPA 60207/470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl	Radium 226 & 228 (SW-846 9316/9320)	Major Ions - Bicarbonate Alkalinity, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of containers	Other:	
State, Zip: GA, 30308		PO #:													A - HCL
Phone: 404-506-7116(Tel)		WO #:		A - HCL		N - None		O - AsNaO2		C - Zn Acetate		P - Na2O4S		Q - Na2SO3	
Email: SCS Contacts		Project #:		E - Nitric Acid		R - Na2SO3		F - MeOH		S - H2SO4		T - TSP Dodecahydrate		U - Acetone	
Project Name: CCR - Plant Wansley Ash Pond		SSOW#:		G - Amchlor		V - MCAA		H - Ascorbic Acid		W - pH 4-5		Z - other (specify)		Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed	
Site:				I - Ice		J - DI Water		K - EDTA		L - EDA					
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)							
WGWC-12		3/14/22		1430		G		Water		✓		✓		✓	
						G		Water							
						G		Water							
						G		Water							
						G		Water							
						G		Water							
						G		Water							
						G		Water							
						G		Water							
						G		Water							
						G		Water							
						G		Water							
						G		Water							



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

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>3-14-22 / 17:06</u>		Company: <u>AEC</u>		Received by: <u>[Signature]</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>3/14/22 17:10</u>		Company: <u>ETO</u>		Date/Time: <u>3/14/22 17:06</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>3/14/22 17:10</u>		Company: <u>ETO</u>		Date/Time: <u>3/15/22 9:00</u>	

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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Eurofins TestAmerica, Pittsburgh

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

Chain of Custody Record

244- ATLANTA

Environment Testing
America

Client Information					Sampler: <i>Johnson, A. Schmitter</i>				Lab PM: Brown, Shali				Carrier Tracking No(s):		COC No:						
Client Contact: SCS Contacts					Phone: <i>770-594-5998</i>				E-Mail: shali.brown@eurofinset.com						Page:						
Company: GA Power					Analysis Requested											Job #:					
Address: 241 Ralph McGill Blvd SE					Due Date Requested:				Field Filtered Sample (Yes or No) Platinum (MS/MSB) (Yes or No) App III Metals: B, Ca Cl, F, SO & TDS (EPA 300 & SM 2540C) App IV Metals (EPA 6020/470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti Radium 226 & 228 (SW-846 9315/9320) Major Ions - Bicarbonate Alkalinity, Total Alkalinity Major Ions - Sulfide Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium				Total Number of Containers				Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)				
City: Atlanta					TAT Requested (days):												Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed				
State, Zip: GA, 30308					PO #:																
Phone: 404-506-7116(Tel)					WO #:																
Email: SCS Contacts					SSOW#:																
Project Name: CCR - Plant Wansley Ash Pond					Project #: 18019922																
Site:																					
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)	Platinum (MS/MSB) (Yes or No)	App III Metals: B, Ca	Cl, F, SO & TDS (EPA 300 & SM 2540C)	App IV Metals (EPA 6020/470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti	Radium 226 & 228 (SW-846 9315/9320)	Major Ions - Bicarbonate Alkalinity, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of Containers	Other:		
						Preservation Code:															
<i>WGWA-18</i>		<i>3/3/22</i>		<i>1240</i>		<i>G</i>	<i>Water</i>		<i>W</i>	<i>W</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>5</i>	<i>pH= 5.94</i>		
<i>WGC-19</i>		<i>3/3/22</i>		<i>1405</i>		<i>G</i>	<i>Water</i>		<i>W</i>	<i>W</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>5</i>	<i>pH= 6.69</i>		
<i>WGC-8</i>		<i>3/3/22</i>		<i>1645</i>		<i>G</i>	<i>Water</i>		<i>W</i>	<i>W</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>5</i>	<i>pH= 5.21</i>		
<i>WGC-9</i>		<i>3/3/22</i>		<i>1525</i>		<i>G</i>	<i>Water</i>		<i>W</i>	<i>W</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>5</i>	<i>pH= 5.86</i>		
<i>WGC-10</i>		<i>3/3/22</i>		<i>1152</i>		<i>G</i>	<i>Water</i>		<i>W</i>	<i>W</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>5</i>	<i>pH= 6.36</i>		
<i>WGC-24</i>		<i>3/3/22</i>		<i>1406</i>		<i>G</i>	<i>Water</i>		<i>W</i>	<i>W</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>7</i>	<i>pH= 4.39</i>		
<i>WGC-21</i>		<i>3/3/22</i>		<i>1627</i>		<i>G</i>	<i>Water</i>		<i>W</i>	<i>W</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>5</i>	<i>pH= 6.88</i>		
<i>EB-2</i>		<i>3/3/22</i>		<i>1615</i>		<i>G</i>	<i>Water</i>		<i>W</i>	<i>W</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>5</i>	<i>pH= —</i>		
<i>WGC-23</i>		<i>3/4/22</i>		<i>0947</i>		<i>G</i>	<i>Water</i>		<i>W</i>	<i>W</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>7</i>	<i>pH= 5.74 (Extra Pad)</i>		
<i>WGC-17</i>		<i>3/4/22</i>		<i>1114</i>		<i>G</i>	<i>Water</i>		<i>W</i>	<i>W</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>5</i>	<i>pH= 6.21</i>		
<i>Dup-3</i>		<i>3/4/22</i>		<i>—</i>		<i>G</i>	<i>Water</i>		<i>W</i>	<i>W</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>5</i>	<i>pH= —</i>		
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:																
Empty Kit Relinquished by:			Date:			Time:			Method of Shipment:												
Relinquished by:			Date/Time:			Company:			Received by:			Date/Time:			Company:						
<i>[Signature]</i>			<i>3-4-22/1706</i>			<i>ACC</i>			<i>[Signature]</i>			<i>3/4/22 12:00</i>			<i>ET</i>						
Relinquished by:			Date/Time:			Company:			Received by:			Date/Time:			Company:						
<i>[Signature]</i>			<i>3/4/22 11:00</i>			<i>ETW</i>			<i>[Signature]</i>			<i>3/5/22 9:00</i>			<i>EETA-PIT</i>						
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No					Custody Seal No.:					Cooler Temperature(s) °C and Other Remarks:											



Eurofins TestAmerica, Pittsburgh

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Pittsburgh, PA 15238
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Chain of Custody Record



Environment Testing
America

244-ATLANTA

Client Information	Sampler: <i>S. Boyer / H. Auld</i>	Lab PM: Brown, Shali	Center Tracking No.:	COC No.:
Client Contact SCS Contacts	Phone: <i>770-594-5998</i>	E-Mail: <i>shali.brown@eurofinset.com</i>		Page:

Company: GA Power	Due Date Requested:	Analysis Requested			Job #:
Address: 241 Ralph McGill Blvd SE	TAT Requested (days):	Field Filtered Sample (Yes or No) Perform (MS/MS) (Yes/No) App III Metals: B, Ca Cl, F, SO & TDS (EPA 300 & SM 2640C) App IV Metals (EPA 6020/470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti Radium 226 & 228 (SW-546 9316/9320) Major Ions - Bicarbonate Alkalinity, Total Alkalinity Major Ions - Sulfide Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Preservation Codes:		

City: Atlanta	PO #:	A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA 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:	
State, Zip: GA, 30308	WO #:		Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed	
Phone: 404-506-7116(Tel)	Project #: 18019922			
Email: SCS Contacts	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform (MS/MS) (Yes/No)	App III Metals: B, Ca	Cl, F, SO & TDS (EPA 300 & SM 2640C)	App IV Metals (EPA 6020/470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti	Radium 226 & 228 (SW-546 9316/9320)	Major Ions - Bicarbonate Alkalinity, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of containers	pH
Dup-2	3/3/22		G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	N/A
w6wc-15	3/3/22	1340	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	7.61
w6wc-16	3/3/22	1452	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	5.22
w6wa-7	3/3/22	1152	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	5.49
w6wc-13	3/3/22	1313	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	6.31
w6wc-14A	3/3/22	1407	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	5.40
w6wc-11	3/3/22	1530	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	5.59
FB-2	3/3/22	1515	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	N/A
w6wc-25	3/4/22	1050	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	5.21
w6wc-20	3/4/22	1211	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	5.23
FB-3	3/4/22	1250	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	N/A



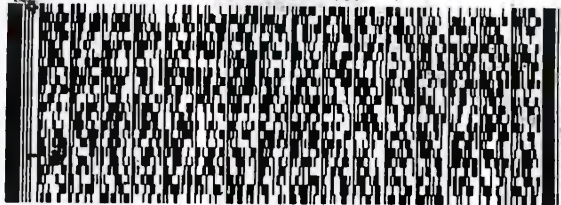
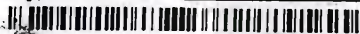
Possible Hazard Identification	<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:		

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	Date/Time: <i>3/4/22 144</i>	Company: <i>ACC</i>	Received by: <i>[Signature]</i>
Relinquished by: <i>[Signature]</i>	Date/Time: <i>3-4-22/1706</i>	Company: <i>ACC</i>	Date/Time: <i>3-4-22 17:06</i>
Relinquished by: <i>[Signature]</i>	Date/Time: <i>3/4/22 17:50</i>	Company: <i>ETA</i>	Date/Time: <i>3/5/22 900</i>
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:	

UNITED STATES US

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6 of 6

MPS# 5220 7116 6497

Mstr# 5220 7116 6442

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

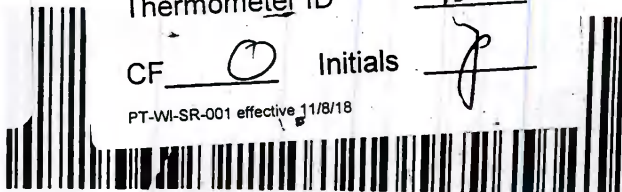
15238
PIT

Uncorrected temp
Thermometer ID

29 °C
16

CF ⓪ Initials J

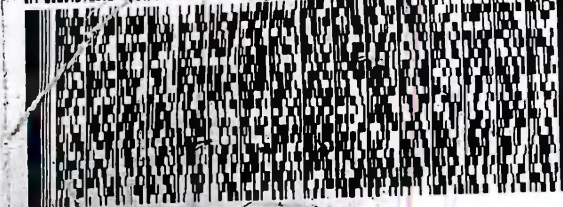
PT-WI-SR-001 effective 11/8/18



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301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

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2 of 6

MPS# 5220 7116 6453

Mstr# 5220 7116 6442

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

15238
PIT

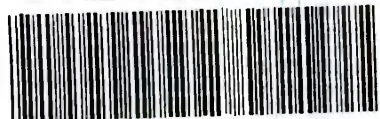
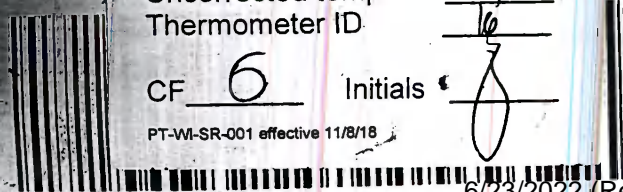
PA-US

Uncorrected temp
Thermometer ID

27 °C
16

CF 6 Initials J

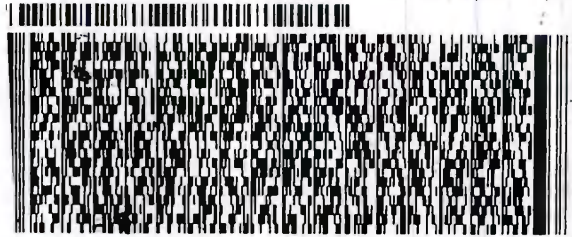
PT-WI-SR-001 effective 11/8/18



180-134761 Waybill

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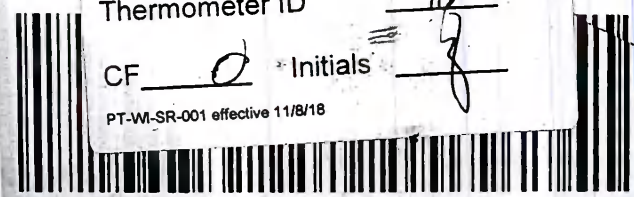
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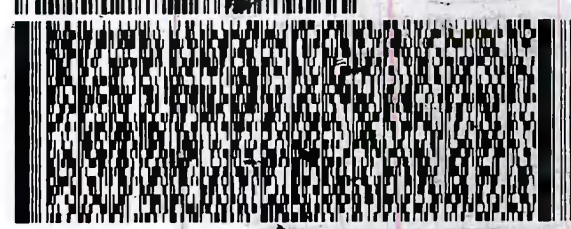
4 of 6
IPS# 253 5220 7116 6475
Istr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
PA-US PIT

Uncorrected temp 2.9 °C
Thermometer ID 16
CF 0 Initials J
PT-WI-SR-001 effective 11/8/18



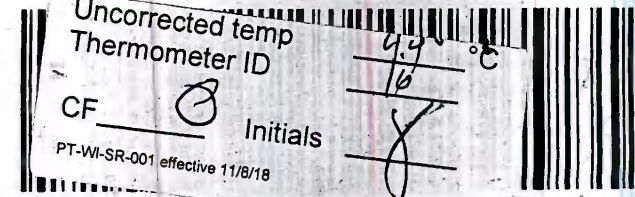
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5 of 6
MPS# 0263 5220 7116 6486
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SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
PA-US PIT

Uncorrected temp 4.4 °C
Thermometer ID 16
CF 0 Initials J
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EUROFINS TESTING AMERICA ATL SC
82215 REGENCY PARKWAY NW
SUITE 300
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACTING TA 60 95 LB
CAD: 859116/CAFE3510

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GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
82215 REGENCY PARKWAY NW
SUITE 300
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACTING TA 60 95 LB
CAD: 859116/CAFE3510

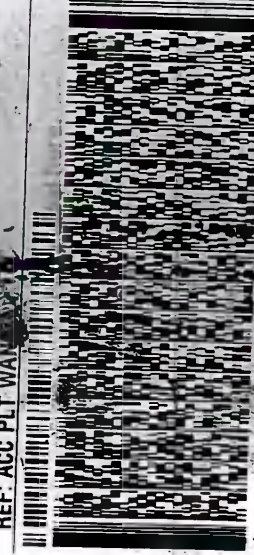
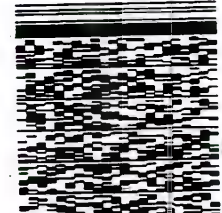
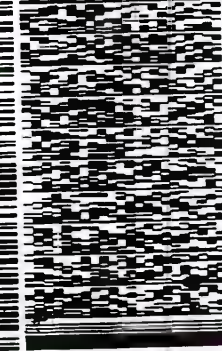
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3 of 6
SATURDAY 12:00P
PRIORITY OVERNIGHT

MPS# 5220 7116 6464
0201

Mstr# 5220 7116 6442

XO AGCA

15238
PA-US PIT

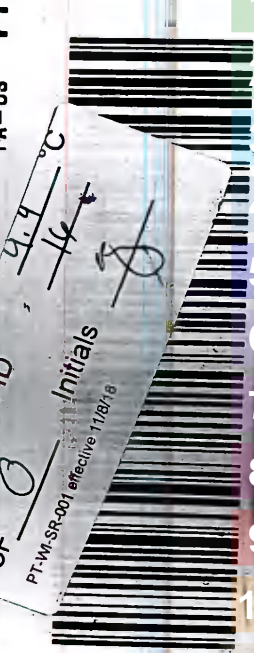
Uncorrected temp
Thermometer ID

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



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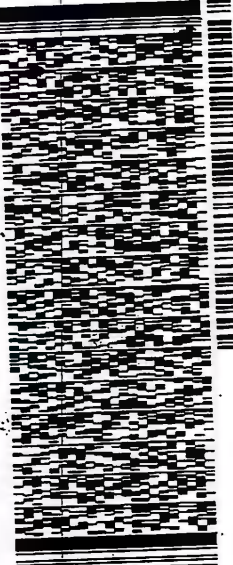
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TestAmerica

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GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 300
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACTWT: 60.95 LB
CAD: BS9116/CAT/E3510
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301 ALPHA DR
RIDC PARK
PITTSBURGH PA 15238

(412) 966-7068
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MPS# 3 of 6
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Mstr# 5220 7116 6442

X0 AGCA

SATURDAY 12:00P
PRIORITY OVERNIGHT

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PIT

Uncorrected Temp
Thermometer ID

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PT-M-SR-304-efedline-11/8/18



180-134763 Waybill

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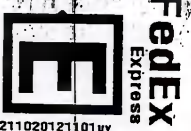
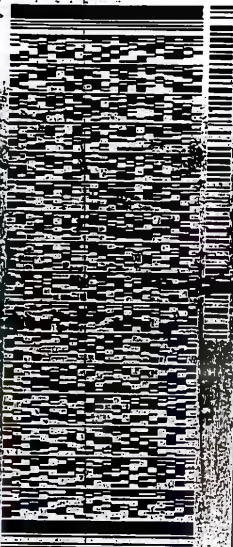
Environment Testing
TestAmerica

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GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 300
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACTWT: 60.95 LB
CAD: BS9116/CAT/E3510
BILL RECEIPTEN

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TRK# 1 of 6
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SATURDAY 12:00P
PRIORITY OVERNIGHT

PA-US 15238
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Uncorrected Temp
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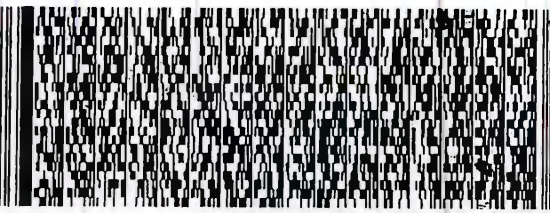
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10 SAMPLE RECEIVING

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 PITTSBURGH PA 15238
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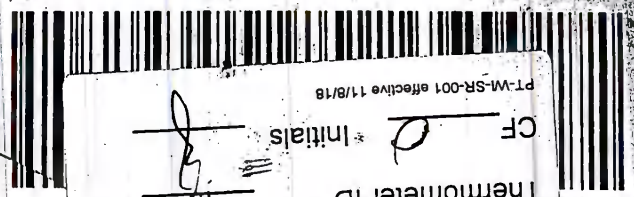
SATURDAY 12:00P

4 of 6
 PS# 5220 7116 6475
 Mstr# 5220 7116 6442

XO AGCA

15238
 PIT

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




10 SAMPLE RECEIVING

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SATURDAY 12:00P

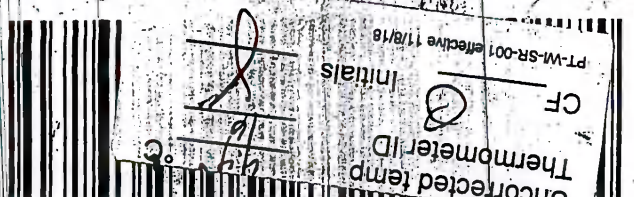
5 of 6
 MPS# 5220 7116 6486
 Mstr# 5220 7116 6442

XO AGCA

15238
 PIT

PA-US
 15238
 PIT

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



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UNITED STATES US

10 SAMPLE RECEIVING

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SATURDAY 12:00P

PRIORITY OVERNIGHT

MPS# 5220 7116 6497

MPS# 5220 7116 6442

0253 0253

6 of 6

15238 PIT

Uncorrected temp

Thermometer ID

Initials

CF

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

27.7 °C

XO AGCA

MPS# 5220 7116 6453

MPS# 5220 7116 6442

0253 0253

2 of 6

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PA-US

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10 SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH

301 ALPHA DR.

RIDC PARK

PITTSBURGH PA 15238

REF: ACC PLT WANSLEY

(412) 963-7068

370C3, 400R/R/FE/

570C3, 400R

123101W

FedEx Express

EUROFINS TESTAMERICA PITTSBURGH

SATURDAY 12:00P

PRIORITY OVERNIGHT

MPS# 5220 7116 6497

MPS# 5220 7116 6442

0253 0253

6 of 6

15238 PIT

Uncorrected temp

Thermometer ID

Initials

CF

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

27.7 °C

XO AGCA

MPS# 5220 7116 6453

MPS# 5220 7116 6442

0253 0253

2 of 6

15238 PIT

PA-US

15238 PIT

21182012101W

FedEx®

180-134765 Waybill



Environment Testing
TestAmerica

ORIGIN ID: L1YA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NH
SUITE 800
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACTING TA 60 85 LB
CAD: 859116/CAFE3510

BILL RECIPIENT

SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR
RIDC PARK
PITTSBURGH PA 15238

(412) 983-7068
REF: ACC PLT WANSLEY



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Express



SATURDAY 12:00P
PRIORITY OVERNIGHT

3 of 6

MPS# 5220 7116 6464

0201

Mstr# 5220 7116 6442

XO AGGA

15238
PIT

PA-US

Uncorrected temp 4.2 °C
Thermometer ID 16

CF Q Initials [Signature]

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

6/23/2022 13

Part# 159469-43/PTWEXP 09/22

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Environment Testing
TestAmerica

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GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NH
SUITE 800
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACTING TA 60 85 LB
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BILL RECIPIENT

SAMPLE RECIEVING
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301 ALPHA DR
RIDC PARK
PITTSBURGH PA 15238

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REF: ACC PLT WANSLEY



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SATURDAY 12:00P
PRIORITY OVERNIGHT

3 of 6

TRK# 5220 7116 6442

0201

MASTER Uncorrected temp

XO
Thermometer ID 16

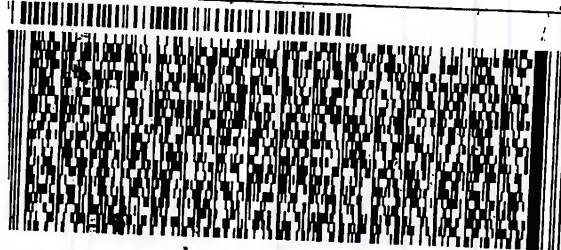
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PIT

CF Q Initials [Signature]

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

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4 of 6
MPS# 5220 7116 6475
Mstr# 5220 7116 6442

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

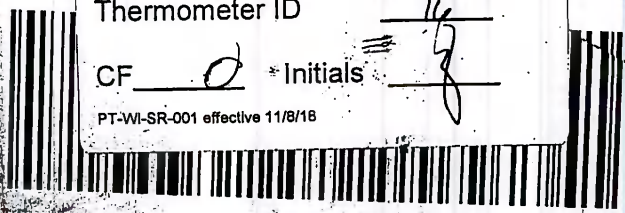
15238
PIT

Uncorrected temp
Thermometer ID

2.9 °C

CF o Initials g

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



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EUROFINS TESTAMERICA PITTSBURGH
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5 of 6
MPS# 5220 7116 6486
Mstr# 5220 7116 6442

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

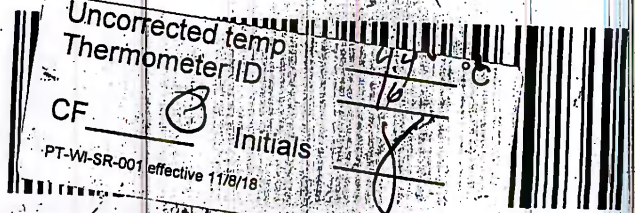
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PIT

Uncorrected temp
Thermometer ID

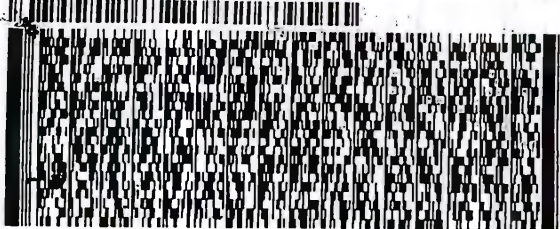
2.9 °C

CF o Initials g

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



UNITED STATES US
TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
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REF: ACC PLT WANSLEY

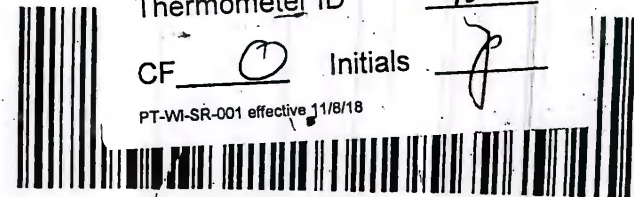


6 of 6
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Mstr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
PIT

Uncorrected temp 23 °C
Thermometer ID 16

CF 0 Initials J



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

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REF: ACC PLT WANSLEY

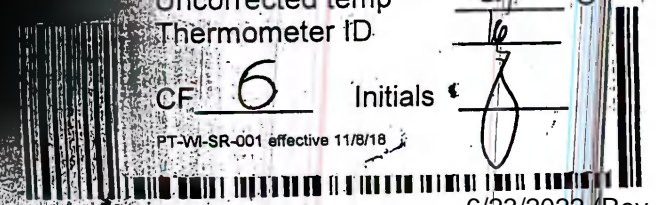


2 of 6
MPS# 0263 **5220 7116 6453**
Mstr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
PA-US PIT

Uncorrected temp 21 °C
Thermometer ID 16

CF 6 Initials J



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

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RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: ACC PLT WANSLEY



180-134766 Waybill

PS# 5220 7116 6475
1str# 5220 7116 6442

0201

XO AGCA

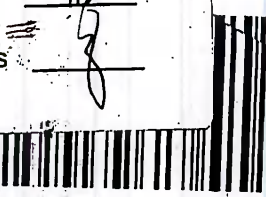
15238
PIT

Uncorrected temp
Thermometer ID

2.9 °C

CF o * Initials g

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



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PITTSBURGH PA 15238

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5 of 6
MPS# 5220 7116 6486
0263
Mstr# 5220 7116 6442

0201

XO AGCA

15238
PA-US
PIT

Uncorrected temp
Thermometer ID

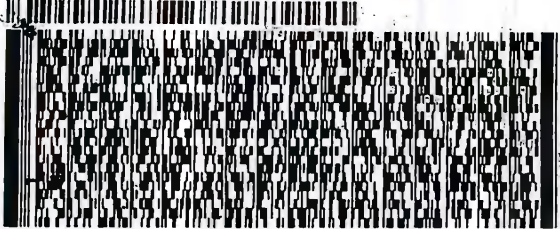
2.9 °C

CF o * Initials g

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



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EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 983-7068
REF: ACC PLT WANSLEY



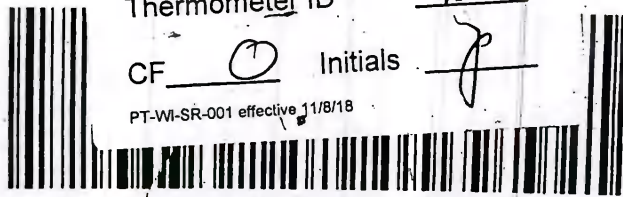
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MPS# 0263 **5220 7116 6497**
Mstr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
PIT

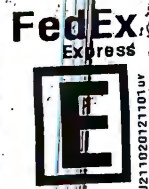
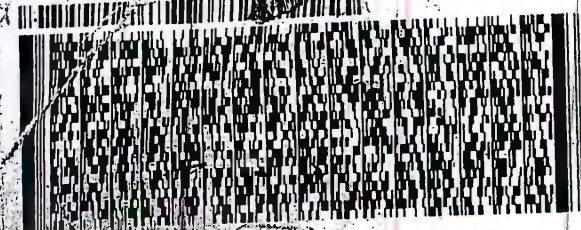
Uncorrected temp 23 °C
Thermometer ID 16

CF 0 Initials J

PT-WI-SR-001 effective 1/8/18



UNITED STATES US
TO **SAMPLE RECIEVING**
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RIDC PARK
PITTSBURGH PA 15238
(412) 983-7068
REF: ACC PLT WANSLEY



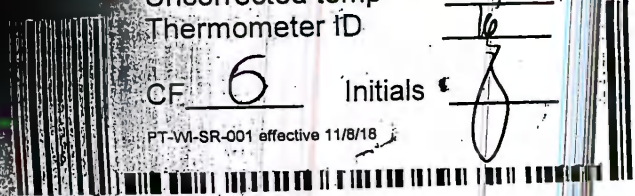
6 of 6
MPS# 0263 **5220 7116 6453**
Mstr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
PA-US PIT

Uncorrected temp 21 °C
Thermometer ID 16

CF 6 Initials J

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



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TestAmerica

ORIGIN ID: LLYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NH
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACT#GTR 603541B
CAD: 859116/CAFE3510

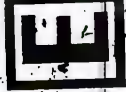
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RIDC PARK
PITTSBURGH PA 15238

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SATURDAY 12:00P
PRIORITY OVERNIGHT

3 01 6
MPS# 5220 7116 6464

Mstr# 5220 7116 6442 [0201]

XO AGGA

15238
PA-US
PIT

Uncorrected temp 4.2 °C
Thermometer ID 16

CF 0 Initials [Signature]

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



6/23/2022 (R)

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Environment Testing
TestAmerica

ORIGIN ID: LLYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NH
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACT#GTR 603541B
CAD: 859116/CAFE3510

BILL RECIPIENT

SAMPLE RECIEVING
EUROFINS-TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: ACC PLT WANSLEY



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SATURDAY 12:00P
PRIORITY OVERNIGHT

1 01 6
TRM# 5220 7116 6442

XO
MASTER 5220 7116 6442
Uncorrected temp
Thermometer ID 16

15238
PA-US
PIT

CF 0 Initials [Signature]



Part #159469-434 TW EXP 09/22

52063/908R/5F 49

J21 020121 010V

12
13

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134761-1

Login Number: 134761

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: 180-134761-1

Login Number: 134763

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: 180-134761-1

Login Number: 134765

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: 180-134761-1

Login Number: 134766

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

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

Laboratory Job ID: 180-134761-2
Client Project/Site: Wansley Ash Pond

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
4/12/2022 1:03:06 PM

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

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

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

PA Lab ID: 02-00416



Table of Contents

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Case Narrative

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Job ID: 180-134761-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-134761-2

Comments

No additional comments.

Receipt

The samples were received on 3/5/2022 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 coolers at receipt time were 2.1° C, 2.9° C, 2.9° C, 4.2° C, 4.4° C and 4.4° C.

RAD

Methods 903.0, 9315: Radium 226 Batch 160-554557:

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. WGWC-12 (180-134761-1), (LCS 160-554557/1-A) and (MB 160-554557/13-A)

Method 9315: Radium 226 Batch 160-554529:

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. WGWC-19 (180-134763-2), WGWC-10 (180-134763-5), WGWC-24 (180-134763-6), WGWC-21 (180-134763-7), WGWC-23 (180-134763-9), WGWC-17 (180-134763-10), Dup-3 (180-134763-11), DUP-2 (180-134765-1), WGWC-15 (180-134765-2), WGWC-16 (180-134765-3), WGWA-7 (180-134765-4), WGWC-13 (180-134765-5), WGWC-14A (180-134765-6), WGWC-11 (180-134765-7), FB-2 (180-134765-8), WGWC-25 (180-134765-9), WGWC-20 (180-134765-10), FB-3 (180-134765-11), EB-3 (180-134766-1), WGWC-22 (180-134766-2), (LCS 160-554529/1-A), (LCSD 160-554529/2-A) and (MB 160-554529/23-A)

Methods 904.0, 9320: Radium-228 batch 558078

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. WGWC-12 (180-134761-1), (LCS 160-558078/1-A) and (MB 160-558078/13-A)

Method 9320: Radium-228 batch 554539

The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: Dup-3 (180-134763-11). Analytical results are reported with the detection limit achieved.

Method 9320: Radium-228 batch 554539

The laboratory control sample recovery is outside the upper QC limit of (add QC limit) 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. (LCS 160-554539/1-A)

Method 9320: Radium-228 batch 554539

The LCSD recovered at (134%). 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 LCSD are not from this agency and are therefore held to our in-house statistical limits of (61-138%) per method requirements. The LCSD passes, no further action is required (LCSD 160-554539/2-A)

Method 9320: Radium-228 batch 554539

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. WGWC-19 (180-134763-2), WGWC-10 (180-134763-5), WGWC-23 (180-134763-9), Dup-3 (180-134763-11), DUP-2 (180-134765-1), WGWC-16 (180-134765-3), WGWA-7 (180-134765-4), WGWC-13 (180-134765-5), WGWC-14A (180-134765-6), WGWC-11 (180-134765-7), FB-2 (180-134765-8), WGWC-25 (180-134765-9), WGWC-20 (180-134765-10), FB-3 (180-134765-11), EB-3 (180-134766-1), (LCS 160-554539/1-A), (LCSD 160-554539/2-A) and (MB 160-554539/23-A)

Methods 904.0, 9320: Radium-228 batch 559120

Case Narrative

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Job ID: 180-134761-2 (Continued)

Laboratory: Eurofins Pittsburgh (Continued)

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. WGWC-24 (180-134763-6), WGWC-21 (180-134763-7), WGWC-17 (180-134763-10), WGWC-15 (180-134765-2), WGWC-22 (180-134766-2), (LCS 160-559120/1-A), (LCSD 160-559120/2-A) and (MB 160-559120/10-A)

Method PrecSep_0: Radium-228 Prep Batch 160-554539

The following samples were prepared at a reduced aliquot due to Matrix: WGWC-17 (180-134763-10) and Dup-3 (180-134763-11). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep_0: Radium-228 Prep Batch 160-559120

The following samples were prepared at a reduced aliquot due to Matrix: WGWC-17 (180-134763-10). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-554529

The following samples were prepared at a reduced aliquot due to Matrix: WGWC-17 (180-134763-10) and Dup-3 (180-134763-11). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

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



Definitions/Glossary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

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: Wansley Ash Pond

Job ID: 180-134761-2

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	07-01-22
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Sample Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-134761-1	WGWC-12	Water	03/04/22 14:30	03/05/22 09:00
180-134763-2	WGWC-19	Water	03/03/22 14:05	03/05/22 09:00
180-134763-5	WGWC-10	Water	03/03/22 11:52	03/05/22 09:00
180-134763-6	WGWC-24	Water	03/03/22 14:06	03/05/22 09:00
180-134763-7	WGWC-21	Water	03/03/22 16:27	03/05/22 09:00
180-134763-9	WGWC-23	Water	03/04/22 09:47	03/05/22 09:00
180-134763-10	WGWC-17	Water	03/04/22 11:14	03/05/22 09:00
180-134763-11	Dup-3	Water	03/04/22 00:01	03/05/22 09:00
180-134765-1	DUP-2	Water	03/03/22 00:01	03/05/22 09:00
180-134765-2	WGWC-15	Water	03/03/22 13:40	03/05/22 09:00
180-134765-3	WGWC-16	Water	03/03/22 14:52	03/05/22 09:00
180-134765-4	WGWA-7	Water	03/03/22 11:52	03/05/22 09:00
180-134765-5	WGWC-13	Water	03/03/22 13:13	03/05/22 09:00
180-134765-6	WGWC-14A	Water	03/03/22 14:07	03/05/22 09:00
180-134765-7	WGWC-11	Water	03/03/22 15:30	03/05/22 09:00
180-134765-8	FB-2	Water	03/03/22 15:15	03/05/22 09:00
180-134765-9	WGWC-25	Water	03/04/22 10:50	03/05/22 09:00
180-134765-10	WGWC-20	Water	03/04/22 12:11	03/05/22 09:00
180-134765-11	FB-3	Water	03/04/22 11:50	03/05/22 09:00
180-134766-1	EB-3	Water	03/04/22 13:15	03/05/22 09:00
180-134766-2	WGWC-22	Water	03/04/22 13:50	03/05/22 09:00



Method Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

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

Protocol References:

None = None

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

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

Laboratory References:

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

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-12

Lab Sample ID: 180-134761-1

Date Collected: 03/04/22 14:30

Matrix: Water

Date Received: 03/05/22 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			1001.36 mL	1.0 g	554557	03/10/22 13:28	LPS	TAL SL
Total/NA	Analysis	9315		1			558254	04/01/22 07:50	CLP	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			995.79 mL	1.0 g	558078	03/31/22 13:15	LPS	TAL SL
Total/NA	Analysis	9320		1			558535	04/05/22 18:10	FLC	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			558887	04/06/22 12:50	SCB	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-19

Lab Sample ID: 180-134763-2

Date Collected: 03/03/22 14:05

Matrix: Water

Date Received: 03/05/22 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			1001.61 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:54	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1001.61 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:12	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-10

Lab Sample ID: 180-134763-5

Date Collected: 03/03/22 11:52

Matrix: Water

Date Received: 03/05/22 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			1000.42 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:54	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1000.42 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:12	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-24

Lab Sample ID: 180-134763-6

Date Collected: 03/03/22 14:06

Matrix: Water

Date Received: 03/05/22 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			993.52 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:55	CLP	TAL SL
Instrument ID: GFPCRED										

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Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-24

Lab Sample ID: 180-134763-6

Date Collected: 03/03/22 14:06

Matrix: Water

Date Received: 03/05/22 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			1000.08 mL	1.0 g	559120	04/07/22 13:33	BMP	TAL SL
Total/NA	Analysis	9320		1			559799	04/11/22 16:01	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-21

Lab Sample ID: 180-134763-7

Date Collected: 03/03/22 16:27

Matrix: Water

Date Received: 03/05/22 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			1002.50 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:56	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			995.68 mL	1.0 g	559120	04/07/22 13:33	BMP	TAL SL
Total/NA	Analysis	9320		1			559799	04/11/22 16:01	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-23

Lab Sample ID: 180-134763-9

Date Collected: 03/04/22 09:47

Matrix: Water

Date Received: 03/05/22 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			999.66 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:56	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			999.66 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:12	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-17

Lab Sample ID: 180-134763-10

Date Collected: 03/04/22 11:14

Matrix: Water

Date Received: 03/05/22 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			758.72 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:56	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			750.85 mL	1.0 g	559120	04/07/22 13:33	BMP	TAL SL
Total/NA	Analysis	9320		1			559799	04/11/22 16:01	CLP	TAL SL
Instrument ID: GFPCRED										

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Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-17

Date Collected: 03/04/22 11:14

Date Received: 03/05/22 09:00

Lab Sample ID: 180-134763-10

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	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL

Client Sample ID: Dup-3

Date Collected: 03/04/22 00:01

Date Received: 03/05/22 09:00

Lab Sample ID: 180-134763-11

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			751.72 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:56	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			751.72 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:13	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: DUP-2

Date Collected: 03/03/22 00:01

Date Received: 03/05/22 09:00

Lab Sample ID: 180-134765-1

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			996.82 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:56	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			996.82 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:13	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-15

Date Collected: 03/03/22 13:40

Date Received: 03/05/22 09:00

Lab Sample ID: 180-134765-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1004.57 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:57	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			998.75 mL	1.0 g	559120	04/07/22 13:33	BMP	TAL SL
Total/NA	Analysis	9320		1			559799	04/11/22 16:02	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-16

Lab Sample ID: 180-134765-3

Date Collected: 03/03/22 14:52

Matrix: Water

Date Received: 03/05/22 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			1006.31 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:57	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1006.31 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:14	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-7

Lab Sample ID: 180-134765-4

Date Collected: 03/03/22 11:52

Matrix: Water

Date Received: 03/05/22 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			995.37 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:58	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			995.37 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:14	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-13

Lab Sample ID: 180-134765-5

Date Collected: 03/03/22 13:13

Matrix: Water

Date Received: 03/05/22 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			994.76 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:58	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			994.76 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:14	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-14A

Lab Sample ID: 180-134765-6

Date Collected: 03/03/22 14:07

Matrix: Water

Date Received: 03/05/22 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			1003.65 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:58	CLP	TAL SL
Instrument ID: GFPCRED										

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Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-14A

Lab Sample ID: 180-134765-6

Date Collected: 03/03/22 14:07

Matrix: Water

Date Received: 03/05/22 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			1003.65 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:15	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-11

Lab Sample ID: 180-134765-7

Date Collected: 03/03/22 15:30

Matrix: Water

Date Received: 03/05/22 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			998.75 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 07:58	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			998.75 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:15	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-2

Lab Sample ID: 180-134765-8

Date Collected: 03/03/22 15:15

Matrix: Water

Date Received: 03/05/22 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			991.62 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 09:50	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			991.62 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:15	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-25

Lab Sample ID: 180-134765-9

Date Collected: 03/04/22 10:50

Matrix: Water

Date Received: 03/05/22 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			995.13 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 09:51	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			995.13 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:15	FLC	TAL SL
Instrument ID: GFPCRED										

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Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-25

Lab Sample ID: 180-134765-9

Date Collected: 03/04/22 10:50

Matrix: Water

Date Received: 03/05/22 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			559840	04/12/22 12:16	CAH	TAL SL

Client Sample ID: WGWC-20

Lab Sample ID: 180-134765-10

Date Collected: 03/04/22 12:11

Matrix: Water

Date Received: 03/05/22 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	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 09:51	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			998.91 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:15	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-3

Lab Sample ID: 180-134765-11

Date Collected: 03/04/22 11:50

Matrix: Water

Date Received: 03/05/22 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			1001.76 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 09:51	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1001.76 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:16	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-3

Lab Sample ID: 180-134766-1

Date Collected: 03/04/22 13:15

Matrix: Water

Date Received: 03/05/22 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			1003.85 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 09:52	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1003.85 mL	1.0 g	554539	03/10/22 11:00	LPS	TAL SL
Total/NA	Analysis	9320		1			557856	03/30/22 15:16	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-22

Lab Sample ID: 180-134766-2

Date Collected: 03/04/22 13:50

Matrix: Water

Date Received: 03/05/22 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			997.22 mL	1.0 g	554529	03/10/22 09:47	LPS	TAL SL
Total/NA	Analysis	9315		1			558304	04/01/22 09:51	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1007.47 mL	1.0 g	559120	04/07/22 13:33	BMP	TAL SL
Total/NA	Analysis	9320		1			559799	04/11/22 16:02	CLP	TAL SL
Instrument ID: GFPCRED										
Total/NA	Analysis	Ra226_Ra228		1			559840	04/12/22 12:16	CAH	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

BMP = Bailey Pinette

LPS = Lauren Szostak

Batch Type: Analysis

CAH = Chris Hough

CLP = Cassandra Park

FLC = Fernando Cruz

SCB = Sarah Bernsen

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-12

Lab Sample ID: 180-134761-1

Date Collected: 03/04/22 14:30

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00522	U	0.103	0.103	1.00	0.210	pCi/L	03/10/22 13:28	04/01/22 07:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					03/10/22 13:28	04/01/22 07:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.413		0.222	0.226	1.00	0.331	pCi/L	03/31/22 13:15	04/05/22 18:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					03/31/22 13:15	04/05/22 18:10	1
Y Carrier	80.7		40 - 110					03/31/22 13:15	04/05/22 18:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.408		0.245	0.248	2.00	0.331	pCi/L		04/06/22 12:50	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-19

Lab Sample ID: 180-134763-2

Date Collected: 03/03/22 14:05

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0265	U	0.125	0.125	1.00	0.254	pCi/L	03/10/22 09:47	04/01/22 07:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		40 - 110					03/10/22 09:47	04/01/22 07:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.936	*	0.262	0.276	1.00	0.309	pCi/L	03/10/22 11:00	03/30/22 15:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		40 - 110					03/10/22 11:00	03/30/22 15:12	1
Y Carrier	83.7		40 - 110					03/10/22 11:00	03/30/22 15:12	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.909		0.290	0.303	2.00	0.309	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-10

Lab Sample ID: 180-134763-5

Date Collected: 03/03/22 11:52

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0388	U	0.134	0.134	1.00	0.247	pCi/L	03/10/22 09:47	04/01/22 07:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		40 - 110					03/10/22 09:47	04/01/22 07:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.549	*	0.289	0.293	1.00	0.434	pCi/L	03/10/22 11:00	03/30/22 15:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		40 - 110					03/10/22 11:00	03/30/22 15:12	1
Y Carrier	82.6		40 - 110					03/10/22 11:00	03/30/22 15:12	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.587		0.319	0.322	2.00	0.434	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-24

Lab Sample ID: 180-134763-6

Date Collected: 03/03/22 14:06

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.287		0.191	0.193	1.00	0.272	pCi/L	03/10/22 09:47	04/01/22 07:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.6		40 - 110					03/10/22 09:47	04/01/22 07:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.606		0.263	0.268	1.00	0.369	pCi/L	04/07/22 13:33	04/11/22 16:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					04/07/22 13:33	04/11/22 16:01	1
Y Carrier	85.2		40 - 110					04/07/22 13:33	04/11/22 16:01	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.893		0.325	0.330	2.00	0.369	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-21

Lab Sample ID: 180-134763-7

Date Collected: 03/03/22 16:27

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.540		0.218	0.223	1.00	0.220	pCi/L	03/10/22 09:47	04/01/22 07:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					03/10/22 09:47	04/01/22 07:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.771	U	0.516	0.520	1.00	0.801	pCi/L	04/07/22 13:33	04/11/22 16:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	52.2		40 - 110					04/07/22 13:33	04/11/22 16:01	1
Y Carrier	85.2		40 - 110					04/07/22 13:33	04/11/22 16:01	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.31		0.560	0.566	2.00	0.801	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-23

Lab Sample ID: 180-134763-9

Date Collected: 03/04/22 09:47

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0264	U	0.191	0.191	1.00	0.382	pCi/L	03/10/22 09:47	04/01/22 07:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	42.9		40 - 110					03/10/22 09:47	04/01/22 07:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.410	U *	0.513	0.515	1.00	0.851	pCi/L	03/10/22 11:00	03/30/22 15:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	42.9		40 - 110					03/10/22 11:00	03/30/22 15:12	1
Y Carrier	80.4		40 - 110					03/10/22 11:00	03/30/22 15:12	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.437	U	0.547	0.549	2.00	0.851	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-17

Lab Sample ID: 180-134763-10

Date Collected: 03/04/22 11:14

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.131	U	0.155	0.155	1.00	0.253	pCi/L	03/10/22 09:47	04/01/22 07:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		40 - 110					03/10/22 09:47	04/01/22 07:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.442	U	0.339	0.342	1.00	0.535	pCi/L	04/07/22 13:33	04/11/22 16:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					04/07/22 13:33	04/11/22 16:01	1
Y Carrier	83.4		40 - 110					04/07/22 13:33	04/11/22 16:01	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.573		0.373	0.375	2.00	0.535	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: Dup-3
Date Collected: 03/04/22 00:01
Date Received: 03/05/22 09:00

Lab Sample ID: 180-134763-11
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0639	U	0.189	0.190	1.00	0.367	pCi/L	03/10/22 09:47	04/01/22 07:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	51.2		40 - 110					03/10/22 09:47	04/01/22 07:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.691	U G *	0.625	0.629	1.00	1.01	pCi/L	03/10/22 11:00	03/30/22 15:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	51.2		40 - 110					03/10/22 11:00	03/30/22 15:13	1
Y Carrier	81.5		40 - 110					03/10/22 11:00	03/30/22 15:13	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.755	U	0.653	0.657	2.00	1.01	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: DUP-2
Date Collected: 03/03/22 00:01
Date Received: 03/05/22 09:00

Lab Sample ID: 180-134765-1
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.129	U	0.124	0.125	1.00	0.192	pCi/L	03/10/22 09:47	04/01/22 07:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		40 - 110					03/10/22 09:47	04/01/22 07:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.568	*	0.294	0.299	1.00	0.442	pCi/L	03/10/22 11:00	03/30/22 15:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		40 - 110					03/10/22 11:00	03/30/22 15:13	1
Y Carrier	83.0		40 - 110					03/10/22 11:00	03/30/22 15:13	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.697		0.319	0.324	2.00	0.442	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-15

Lab Sample ID: 180-134765-2

Date Collected: 03/03/22 13:40

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0926	U	0.154	0.154	1.00	0.271	pCi/L	03/10/22 09:47	04/01/22 07:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	54.4		40 - 110					03/10/22 09:47	04/01/22 07:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.265	U	0.247	0.248	1.00	0.397	pCi/L	04/07/22 13:33	04/11/22 16:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					04/07/22 13:33	04/11/22 16:02	1
Y Carrier	82.6		40 - 110					04/07/22 13:33	04/11/22 16:02	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.358	U	0.291	0.292	2.00	0.397	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-16

Lab Sample ID: 180-134765-3

Date Collected: 03/03/22 14:52

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.143	U	0.113	0.114	1.00	0.156	pCi/L	03/10/22 09:47	04/01/22 07:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					03/10/22 09:47	04/01/22 07:57	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.430	*	0.244	0.247	1.00	0.362	pCi/L	03/10/22 11:00	03/30/22 15:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					03/10/22 11:00	03/30/22 15:14	1
Y Carrier	82.2		40 - 110					03/10/22 11:00	03/30/22 15:14	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.573		0.269	0.272	2.00	0.362	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWA-7

Lab Sample ID: 180-134765-4

Date Collected: 03/03/22 11:52

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0975	U	0.110	0.110	1.00	0.176	pCi/L	03/10/22 09:47	04/01/22 07:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					03/10/22 09:47	04/01/22 07:58	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.318	U *	0.249	0.251	1.00	0.394	pCi/L	03/10/22 11:00	03/30/22 15:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					03/10/22 11:00	03/30/22 15:14	1
Y Carrier	83.0		40 - 110					03/10/22 11:00	03/30/22 15:14	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.415		0.272	0.274	2.00	0.394	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-13

Lab Sample ID: 180-134765-5

Date Collected: 03/03/22 13:13

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0736	U	0.101	0.101	1.00	0.170	pCi/L	03/10/22 09:47	04/01/22 07:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		40 - 110					03/10/22 09:47	04/01/22 07:58	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.548	*	0.246	0.252	1.00	0.348	pCi/L	03/10/22 11:00	03/30/22 15:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		40 - 110					03/10/22 11:00	03/30/22 15:14	1
Y Carrier	82.2		40 - 110					03/10/22 11:00	03/30/22 15:14	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.621		0.266	0.271	2.00	0.348	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
 Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-14A

Lab Sample ID: 180-134765-6

Date Collected: 03/03/22 14:07

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.374		0.161	0.165	1.00	0.170	pCi/L	03/10/22 09:47	04/01/22 07:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/10/22 09:47	04/01/22 07:58	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.582	*	0.240	0.246	1.00	0.332	pCi/L	03/10/22 11:00	03/30/22 15:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/10/22 11:00	03/30/22 15:15	1
Y Carrier	84.5		40 - 110					03/10/22 11:00	03/30/22 15:15	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.956		0.289	0.296	2.00	0.332	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-11

Lab Sample ID: 180-134765-7

Date Collected: 03/03/22 15:30

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0360	U	0.0859	0.0860	1.00	0.162	pCi/L	03/10/22 09:47	04/01/22 07:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					03/10/22 09:47	04/01/22 07:58	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.586	*	0.250	0.256	1.00	0.345	pCi/L	03/10/22 11:00	03/30/22 15:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					03/10/22 11:00	03/30/22 15:15	1
Y Carrier	81.1		40 - 110					03/10/22 11:00	03/30/22 15:15	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.622		0.264	0.270	2.00	0.345	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: FB-2

Lab Sample ID: 180-134765-8

Date Collected: 03/03/22 15:15

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0214	U	0.0848	0.0848	1.00	0.190	pCi/L	03/10/22 09:47	04/01/22 09:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					03/10/22 09:47	04/01/22 09:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.418	*	0.261	0.264	1.00	0.398	pCi/L	03/10/22 11:00	03/30/22 15:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					03/10/22 11:00	03/30/22 15:15	1
Y Carrier	80.0		40 - 110					03/10/22 11:00	03/30/22 15:15	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.396	U	0.274	0.277	2.00	0.398	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
 Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-25

Lab Sample ID: 180-134765-9

Date Collected: 03/04/22 10:50

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.416		0.227	0.230	1.00	0.307	pCi/L	03/10/22 09:47	04/01/22 09:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.6		40 - 110					03/10/22 09:47	04/01/22 09:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.403	U *	0.300	0.302	1.00	0.468	pCi/L	03/10/22 11:00	03/30/22 15:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.6		40 - 110					03/10/22 11:00	03/30/22 15:15	1
Y Carrier	80.7		40 - 110					03/10/22 11:00	03/30/22 15:15	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.818		0.376	0.380	2.00	0.468	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-20

Lab Sample ID: 180-134765-10

Date Collected: 03/04/22 12:11

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.170	U	0.166	0.167	1.00	0.263	pCi/L	03/10/22 09:47	04/01/22 09:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					03/10/22 09:47	04/01/22 09:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.756	*	0.287	0.296	1.00	0.386	pCi/L	03/10/22 11:00	03/30/22 15:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.9		40 - 110					03/10/22 11:00	03/30/22 15:15	1
Y Carrier	80.4		40 - 110					03/10/22 11:00	03/30/22 15:15	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.925		0.332	0.340	2.00	0.386	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: FB-3

Lab Sample ID: 180-134765-11

Date Collected: 03/04/22 11:50

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0426	U	0.120	0.120	1.00	0.219	pCi/L	03/10/22 09:47	04/01/22 09:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/10/22 09:47	04/01/22 09:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0404	U *	0.178	0.178	1.00	0.333	pCi/L	03/10/22 11:00	03/30/22 15:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/10/22 11:00	03/30/22 15:16	1
Y Carrier	81.9		40 - 110					03/10/22 11:00	03/30/22 15:16	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.00221	U	0.215	0.215	2.00	0.333	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: EB-3

Lab Sample ID: 180-134766-1

Date Collected: 03/04/22 13:15

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.178	U	0.137	0.138	1.00	0.197	pCi/L	03/10/22 09:47	04/01/22 09:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		40 - 110					03/10/22 09:47	04/01/22 09:52	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.244	U *	0.282	0.283	1.00	0.464	pCi/L	03/10/22 11:00	03/30/22 15:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		40 - 110					03/10/22 11:00	03/30/22 15:16	1
Y Carrier	81.1		40 - 110					03/10/22 11:00	03/30/22 15:16	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.421	U	0.314	0.315	2.00	0.464	pCi/L		04/12/22 12:16	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Client Sample ID: WGWC-22

Lab Sample ID: 180-134766-2

Date Collected: 03/04/22 13:50

Matrix: Water

Date Received: 03/05/22 09:00

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.26		0.466	0.551	1.00	0.207	pCi/L	03/10/22 09:47	04/01/22 09:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.1		40 - 110					03/10/22 09:47	04/01/22 09:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.31		0.480	0.623	1.00	0.352	pCi/L	04/07/22 13:33	04/11/22 16:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					04/07/22 13:33	04/11/22 16:02	1
Y Carrier	81.9		40 - 110					04/07/22 13:33	04/11/22 16:02	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	7.57		0.669	0.832	2.00	0.352	pCi/L		04/12/22 12:16	1

QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-554529/23-A
Matrix: Water
Analysis Batch: 558304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 554529

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.007245	U	0.0803	0.0803	1.00	0.172	pCi/L	03/10/22 09:47	04/01/22 09:52	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	105		40 - 110					03/10/22 09:47	04/01/22 09:52	1

Lab Sample ID: LCS 160-554529/1-A
Matrix: Water
Analysis Batch: 558255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 554529

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.598		1.14	1.00	0.214	pCi/L	85	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	91.1		40 - 110					03/10/22 09:47	04/01/22 09:52

Lab Sample ID: LCSD 160-554529/2-A
Matrix: Water
Analysis Batch: 558304

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 554529

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	Limit
				Uncert. (2σ+/-)							
Radium-226	11.3	8.666		1.03	1.00	0.185	pCi/L	76	75 - 125	0.43	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits		Prepared	Analyzed	Dil Fac				
Ba Carrier	100		40 - 110					03/10/22 13:28	04/01/22 07:50	1	

Lab Sample ID: MB 160-554557/13-A
Matrix: Water
Analysis Batch: 558254

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 554557

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03075	U	0.134	0.134	1.00	0.251	pCi/L	03/10/22 13:28	04/01/22 07:50	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	103		40 - 110					03/10/22 13:28	04/01/22 07:50	1

Lab Sample ID: LCS 160-554557/1-A
Matrix: Water
Analysis Batch: 558254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 554557

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	8.535		1.02	1.00	0.217	pCi/L	75	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

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

Lab Sample ID: LCS 160-554557/1-A
Matrix: Water
Analysis Batch: 558254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 554557

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	105		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-554539/23-A
Matrix: Water
Analysis Batch: 558029

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 554539

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
	Result	Qualifier									
Radium-228	0.6702		0.266	0.273	1.00	0.374	pCi/L	03/10/22 11:00	03/30/22 15:10	1	
Carrier	%Yield	Qualifier	Limits				Prepared		Analyzed		Dil Fac
Ba Carrier	105		40 - 110				03/10/22 11:00		03/30/22 15:10		1
Y Carrier	83.0		40 - 110				03/10/22 11:00		03/30/22 15:10		1

Lab Sample ID: LCS 160-554539/1-A
Matrix: Water
Analysis Batch: 557856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 554539

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec	
									Limits	
Radium-228	0.875	1.571	*	0.393	1.00	0.428	pCi/L	180	75 - 125	
Carrier		LCS	LCS	Limits				Prepared		Analyzed
Ba Carrier		91.1		40 - 110				03/10/22 11:00		03/30/22 15:10
Y Carrier		78.5		40 - 110				03/10/22 11:00		03/30/22 15:10

Lab Sample ID: LCSD 160-554539/2-A
Matrix: Water
Analysis Batch: 557856

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 554539

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec		RER
									Limits	RER	Limit
Radium-228	0.875	1.175		0.315	1.00	0.348	pCi/L	134	75 - 125	0.56	1
Carrier		LCSD	LCSD	Limits				Prepared		Analyzed	
Ba Carrier		100		40 - 110				03/31/22 13:15		04/05/22 18:10	
Y Carrier		81.1		40 - 110				03/31/22 13:15		04/05/22 18:10	

Lab Sample ID: MB 160-558078/13-A
Matrix: Water
Analysis Batch: 558535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 558078

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.3960		0.213	0.216	1.00	0.317	pCi/L	03/31/22 13:15	04/05/22 18:10	1

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

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

Lab Sample ID: MB 160-558078/13-A
Matrix: Water
Analysis Batch: 558535

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 558078

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	98.3		40 - 110	03/31/22 13:15	04/05/22 18:10	1
Y Carrier	81.5		40 - 110	03/31/22 13:15	04/05/22 18:10	1

Lab Sample ID: LCS 160-558078/1-A
Matrix: Water
Analysis Batch: 558534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 558078

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	100		40 - 110
Y Carrier	80.0		40 - 110

Lab Sample ID: MB 160-559120/10-A
Matrix: Water
Analysis Batch: 559799

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 559120

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	97.8		40 - 110	04/07/22 14:49	04/11/22 16:02	1
Y Carrier	81.1		40 - 110	04/07/22 14:49	04/11/22 16:02	1

Lab Sample ID: LCS 160-559120/1-A
Matrix: Water
Analysis Batch: 559799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 559120

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	108		40 - 110
Y Carrier	83.4		40 - 110

Lab Sample ID: LCSD 160-559120/2-A
Matrix: Water
Analysis Batch: 559799

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 559120

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

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

Lab Sample ID: LCSD 160-559120/2-A
Matrix: Water
Analysis Batch: 559799

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 559120

Carrier	LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	107		40 - 110
Y Carrier	90.8		40 - 110

- 1
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QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Rad

Prep Batch: 554529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-2	WGWC-19	Total/NA	Water	PrecSep-21	
180-134763-5	WGWC-10	Total/NA	Water	PrecSep-21	
180-134763-6	WGWC-24	Total/NA	Water	PrecSep-21	
180-134763-7	WGWC-21	Total/NA	Water	PrecSep-21	
180-134763-9	WGWC-23	Total/NA	Water	PrecSep-21	
180-134763-10	WGWC-17	Total/NA	Water	PrecSep-21	
180-134763-11	Dup-3	Total/NA	Water	PrecSep-21	
180-134765-1	DUP-2	Total/NA	Water	PrecSep-21	
180-134765-2	WGWC-15	Total/NA	Water	PrecSep-21	
180-134765-3	WGWC-16	Total/NA	Water	PrecSep-21	
180-134765-4	WGWA-7	Total/NA	Water	PrecSep-21	
180-134765-5	WGWC-13	Total/NA	Water	PrecSep-21	
180-134765-6	WGWC-14A	Total/NA	Water	PrecSep-21	
180-134765-7	WGWC-11	Total/NA	Water	PrecSep-21	
180-134765-8	FB-2	Total/NA	Water	PrecSep-21	
180-134765-9	WGWC-25	Total/NA	Water	PrecSep-21	
180-134765-10	WGWC-20	Total/NA	Water	PrecSep-21	
180-134765-11	FB-3	Total/NA	Water	PrecSep-21	
180-134766-1	EB-3	Total/NA	Water	PrecSep-21	
180-134766-2	WGWC-22	Total/NA	Water	PrecSep-21	
MB 160-554529/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-554529/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-554529/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 554539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-2	WGWC-19	Total/NA	Water	PrecSep_0	
180-134763-5	WGWC-10	Total/NA	Water	PrecSep_0	
180-134763-9	WGWC-23	Total/NA	Water	PrecSep_0	
180-134763-11	Dup-3	Total/NA	Water	PrecSep_0	
180-134765-1	DUP-2	Total/NA	Water	PrecSep_0	
180-134765-3	WGWC-16	Total/NA	Water	PrecSep_0	
180-134765-4	WGWA-7	Total/NA	Water	PrecSep_0	
180-134765-5	WGWC-13	Total/NA	Water	PrecSep_0	
180-134765-6	WGWC-14A	Total/NA	Water	PrecSep_0	
180-134765-7	WGWC-11	Total/NA	Water	PrecSep_0	
180-134765-8	FB-2	Total/NA	Water	PrecSep_0	
180-134765-9	WGWC-25	Total/NA	Water	PrecSep_0	
180-134765-10	WGWC-20	Total/NA	Water	PrecSep_0	
180-134765-11	FB-3	Total/NA	Water	PrecSep_0	
180-134766-1	EB-3	Total/NA	Water	PrecSep_0	
MB 160-554539/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-554539/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-554539/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 554557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total/NA	Water	PrecSep-21	
MB 160-554557/13-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-554557/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134761-2

Rad

Prep Batch: 558078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134761-1	WGWC-12	Total/NA	Water	PrecSep_0	
MB 160-558078/13-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-558078/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 559120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134763-6	WGWC-24	Total/NA	Water	PrecSep_0	
180-134763-7	WGWC-21	Total/NA	Water	PrecSep_0	
180-134763-10	WGWC-17	Total/NA	Water	PrecSep_0	
180-134765-2	WGWC-15	Total/NA	Water	PrecSep_0	
180-134766-2	WGWC-22	Total/NA	Water	PrecSep_0	
MB 160-559120/10-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-559120/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-559120/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Client Information		Sampler: <u>Johnson, A. Schmitter</u>		Lab PM: <u>Brown, Shali</u>		Carrier Tracking No(s):		COC No:					
Client Contact:		Phone: <u>770-594-5998</u>		E-Mail: <u>shali.brown@eurofinset.com</u>				Page:					
SCS Contacts		Company: <u>GA Power</u>		Analysis Requested						Job #:			
Address: <u>241 Ralph McGill Blvd SE</u>		Due Date Requested:		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Plutonium (MSMSB) (Yes or No) <input checked="" type="checkbox"/> App III Metals: B, Ca <input checked="" type="checkbox"/> Cl, F, SO & TDS (EPA 300 & SM 2540C) <input checked="" type="checkbox"/> App IV Metals (EPA 6020/470): <input checked="" type="checkbox"/> Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl <input checked="" type="checkbox"/> Radium 226 & 228 (SW-846 9316/9320) <input checked="" type="checkbox"/> Major Ions - Bicarbonate Alkalinity, Total Alkalinity <input checked="" type="checkbox"/> Major Ions - Sulfide <input checked="" type="checkbox"/> Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium <input checked="" type="checkbox"/>						Preservation Codes:			
City: <u>Atlanta</u>		TAT Requested (days):								A - HCL		M - Hexane	
State, Zip: <u>GA, 30308</u>		PO #:								B - NaOH		N - None	
Phone: <u>404-506-7116(Tel)</u>		WO #:								C - Zn Acetate		O - AsNaO2	
Email: <u>SCS Contacts</u>		Project #: <u>18019922</u>								D - Nitric Acid		P - Na2O4S	
Project Name: <u>CCR - Plant Wansley Ash Pond</u>		SSOW#:		E - NaHSO4		Q - Na2SO3							
Site:				F - MeOH		R - Na2S2O3							
				G - Amchlor		S - H2SO4							
				H - Ascorbic Acid		T - TSP Dodecahydrate							
				I - Ice		U - Acetone							
				J - DI Water		V - MCAA							
				K - EDTA		W - pH 4-5							
				L - EDA		Z - other (specify)							
				Other:									
				Special Instructions/Note:									
				Major Ions to include Alkalinity, Sulfide, and Metals as listed									
Sample Identification													
Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)		Total Number of Containers					
Preservation Code:													
<u>WGWA-18</u>		<u>3/3/22 1240</u>		<u>G Water</u>		<u>W</u>		<u>5</u> pH= <u>5.94</u>					
<u>WGWC-19</u>		<u>3/3/22 1405</u>		<u>G Water</u>		<u>W</u>		<u>5</u> pH= <u>6.69</u>					
<u>WGWC-8</u>		<u>3/3/22 1645</u>		<u>G Water</u>		<u>W</u>		<u>5</u> pH= <u>5.21</u>					
<u>WGWC-9</u>		<u>3/3/22 1525</u>		<u>G Water</u>		<u>W</u>		<u>5</u> pH= <u>5.86</u>					
<u>WGWC-10</u>		<u>3/3/22 1152</u>		<u>G Water</u>		<u>W</u>		<u>5</u> pH= <u>6.36</u>					
<u>WGWC-24</u>		<u>3/3/22 1406</u>		<u>G Water</u>		<u>W</u>		<u>7</u> pH= <u>4.39</u>					
<u>WGWC-21</u>		<u>3/3/22 1627</u>		<u>G Water</u>		<u>W</u>		<u>5</u> pH= <u>6.88</u>					
<u>EB-2</u>		<u>3/3/22 1615</u>		<u>G Water</u>		<u>W</u>		<u>5</u> pH= <u>—</u>					
<u>WGWC-23</u>		<u>3/4/22 0947</u>		<u>G Water</u>		<u>W</u>		<u>7</u> pH= <u>5.74 (Extra Pack)</u>					
<u>WGWC-17</u>		<u>3/4/22 1114</u>		<u>G Water</u>		<u>W</u>		<u>5</u> pH= <u>6.21</u>					
<u>Dup-3</u>		<u>3/4/22 —</u>		<u>G Water</u>		<u>W</u>		<u>5</u> pH= <u>—</u>					
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)								
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:								
Empty Kit Relinquished by:			Date:		Time:		Method of Shipment:						
Relinquished by: <u>[Signature]</u>		Date/Time: <u>3-4-22/1706</u>		Company: <u>ACC</u>		Received by: <u>[Signature]</u>		Date/Time: <u>3/4/22 12:00</u>					
Relinquished by: <u>[Signature]</u>		Date/Time: <u>3/4/22 11:00</u>		Company: <u>ETW</u>		Received by: <u>[Signature]</u>		Date/Time: <u>3/5/22 900</u>					
Relinquished by: <u>[Signature]</u>		Date/Time: <u>3/4/22</u>		Company: <u>[Blank]</u>		Received by: <u>[Blank]</u>		Date/Time: <u>[Blank]</u>					
Custody Seals Intact: <input checked="" type="checkbox"/> 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

244-ATLANTA

Client Information	Sampler: <i>S. Brown / H. Auld</i>	Lab PM: Brown, Shali	Center Tracking No.:	COC No.:
Client Contact	Phone: <i>770-594-5998</i>	E-Mail: <i>shali.brown@eurofinset.com</i>		Page:
SCS Contacts				

Company: GA Power	Due Date Requested:	Analysis Requested App III Metals: B, Ca Cl, F, SO & TDS (EPA 300 & SM 2640C) App IV Metals (EPA 6020/470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti Radium 226 & 228 (SW-546 9316/9320) Major Ions - Bicarbonate Alkalinity, Total Alkalinity Major Ions - Sulfide Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Job #:
Address: 241 Ralph McGill Blvd SE	TAT Requested (days):		Preservation Codes:
City: Atlanta			A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)
State, Zip: GA, 30308	PO #:		Other:

Phone: 404-506-7116(Tel)	WO #:
Email: SCS Contacts	Project #: 18019922
Project Name: CCR - Plant Wansley Ash Pond	SSOW#:
Site:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Performs (MS/MS) (Yes or No)	App III Metals: B, Ca	Cl, F, SO & TDS (EPA 300 & SM 2640C)	App IV Metals (EPA 6020/470): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti	Radium 226 & 228 (SW-546 9316/9320)	Major Ions - Bicarbonate Alkalinity, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of containers	Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed
Dup-2	3/3/22		G	Water	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= N/A	
w6wc-15	3/3/22	1340	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= 7.61	
w6wc-16	3/3/22	1452	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= 5.22	
w6wa-7	3/3/22	1152	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= 5.49	
w6wc-13	3/3/22	1313	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= 6.31	
w6wc-14A	3/3/22	1407	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= 5.40	
w6wc-11	3/3/22	1530	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= 5.59	
FB-2	3/3/22	1515	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= N/A	
w6wc-25	3/4/22	1050	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= 5.21	
w6wc-20	3/4/22	1211	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= 5.23	
FB-3	3/4/22	1250	G	Water	✓	✓	✓	✓	✓	✓	✓	✓	5	pH= N/A	



Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	Date/Time: 3/4/22 144	Company: ACC	Received by: <i>[Signature]</i>
Relinquished by: <i>[Signature]</i>	Date/Time: 3-4-22/1706	Company: ACC	Date/Time: 3-4-22/1706
Relinquished by: <i>[Signature]</i>	Date/Time: 3/4/22 17:00	Company: ETA	Date/Time: 3/5/22 900
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:	

Eurofins TestAmerica, Pittsburgh

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

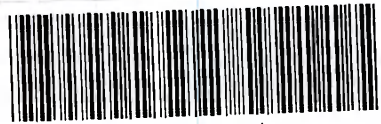
Chain of Custody Record

244- ATLANTA



Environment Testing
America

Client Information					Sampler: <u>S. Brown</u>			Lab PM: <u>Brown, Shali</u>			Carrier Tracking No(s):			COC No:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Client Contact: SCS Contacts					Phone: <u>770-591-5947</u>			E-Mail: <u>shali.brown@eurofinset.com</u>						Page:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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HCL</td><td colspan="3">M - Hexane</td></tr> <tr> <td colspan="3">B - NaOH</td><td colspan="3">N - None</td></tr> <tr> <td colspan="3">C - Zn Acetate</td><td colspan="3">O - AsNaO2</td></tr> <tr> <td colspan="3">D - Nitric Acid</td><td colspan="3">P - Na2O4S</td></tr> <tr> <td colspan="3">E - NaHSO4</td><td colspan="3">Q - Na2SO3</td></tr> <tr> <td colspan="3">F - MeOH</td><td colspan="3">R - Na2S2O3</td></tr> <tr> <td colspan="3">G - Amchlor</td><td colspan="3">S - H2SO4</td></tr> <tr> <td colspan="3">H - Ascorbic Acid</td><td colspan="3">T - TSP Dodecahydrate</td></tr> <tr> <td colspan="3">I - Ice</td><td colspan="3">U - Acetone</td></tr> <tr> <td colspan="3">J - DI Water</td><td colspan="3">V - MCAA</td></tr> <tr> <td colspan="3">K - EDTA</td><td colspan="3">W - pH 4-5</td></tr> <tr> <td colspan="3">L - EDA</td><td colspan="3">Z - other (specify)</td></tr> <tr> <td colspan="3">Other:</td><td colspan="3"></td></tr> <tr> <th colspan="12">Sample Identification</th><th colspan="3">Special Instructions/Note:</th> </tr> <tr> <th>Sample Date</th><th>Sample Time</th><th>Sample Type (C=comp, G=grab)</th><th>Matrix (W=water, S=solid, O=waste/oli, BT=TISSUE, A=Air)</th><th>Field Filtered Sample (Yes or No)</th><th>Perform (MS/MSD) (Yes or No)</th><th>App III Metals: B, Ca</th><th>Cl, F, SO & TDS (EPA 300 & SM 2540C)</th><th>App IV Metals (EPA 60207470): Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Li,Hg,Mo,Se,Tl</th><th>Radium 226 & 228 (SW-846 9315/9320)</th><th>Major Ions - 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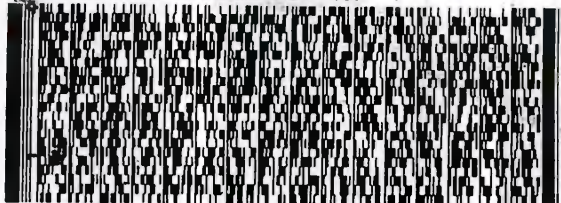
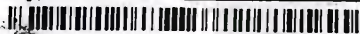


180-134766 Chain of Custody

UNITED STATES US

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058
REF: ACC PLT WANSLEY



FedEx Express



6 of 6

MPS# 5220 7116 6497

Mstr# 5220 7116 6442 0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

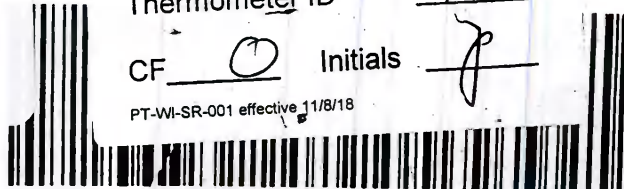
15238
PIT

Uncorrected temp
Thermometer ID

29 °C
16

CF ⊙ Initials J

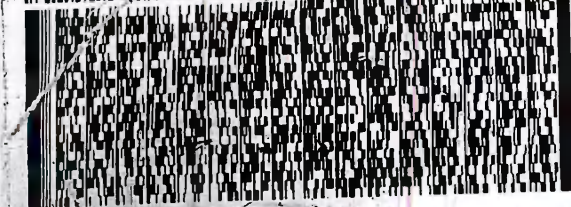
PT-WI-SR-001 effective 11/8/18



UNITED STATES US

TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058
REF: ACC PLT WANSLEY



FedEx Express



2 of 6

MPS# 5220 7116 6453

Mstr# 5220 7116 6442 0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

15238
PIT

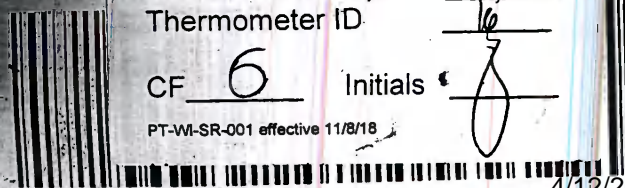
PA-US

Uncorrected temp
Thermometer ID

27 °C
16

CF 6 Initials J

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

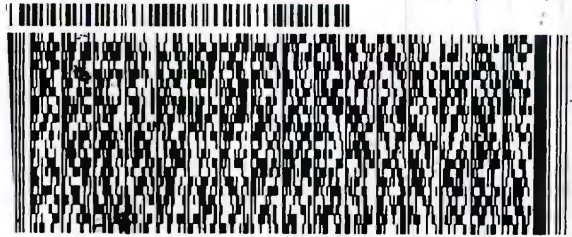


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180-134761 Waybill

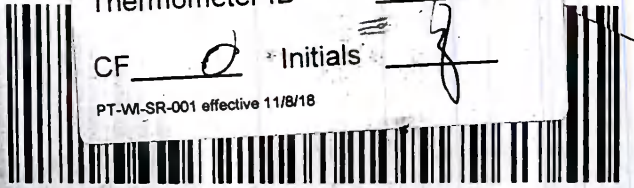
TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF: ACC PLT WANSLEY



4 of 6
IPSN# 253 5220 7116 6475
Istr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
PA-US PIT

Uncorrected temp 2.9 °C
Thermometer ID 16
CF 0 Initials J
PT-WI-SR-001 effective 11/8/18



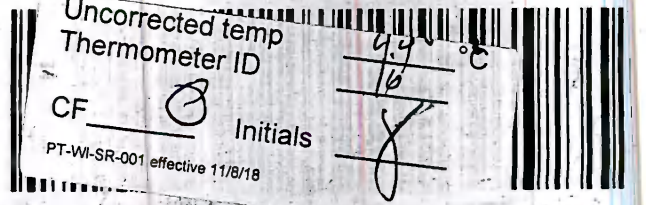
TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
REF: ACC PLT WANSLEY



5 of 6
MPS# 0263 5220 7116 6486
Mstr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
PA-US PIT

Uncorrected temp 4.4 °C
Thermometer ID 16
CF 0 Initials J
PT-WI-SR-001 effective 11/8/18



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Part #159469-434 MW EXP 09/22

Part #159469-434 MW EXP 09/22

eurofins

Environment Testing
TestAmerica

eurofins

Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
8215 REGENCY PARKWAY NW
SUITE 300
NORCROSS, GA 30071
UNITED STATES US

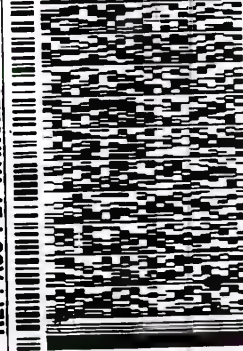
SHIP DATE: 04MAR22
ACTING TA 60 95 LB
CAD: 859116/CAFE3510

BILL RECIPIENT

71 SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 966-7058
REF: ACC PLT WANSLEY



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J21710201211017V

3 of 6
SATURDAY 12:00P
PRIORITY OVERNIGHT

MPS# 5220 7116 6464

0201

Mstr# 5220 7116 6442

XO AGCA

15238
PA-US PIT

Uncorrected temp

4.2 °C

Thermometer ID

16

CF Initials

Signature

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



4/12/2022

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
8215 REGENCY PARKWAY NW
SUITE 300
NORCROSS, GA 300
UNITED STATES US

SHIP DATE: 04MAR22
ACTING TA 60 95 LB
CAD: 859116/CAFE3510

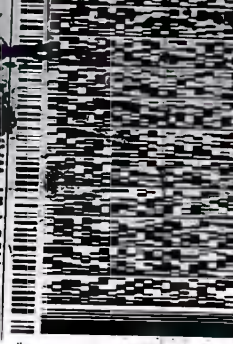
BILL RECIPIENT

TO SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 966-7058

REF: ACC PLT WAN



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Express



J21710201211017V

1 of 6
SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 5220 7116 6442

0201

MASTER

XO

15238
PA-US PIT

Uncorrected temp

4.9 °C

Thermometer ID

Initials

Signature

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



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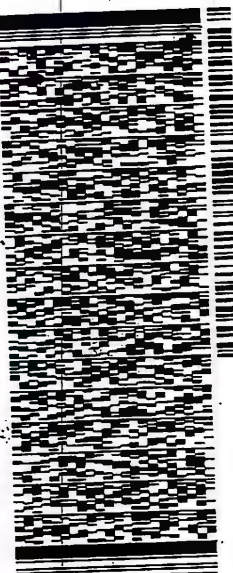
Environment Testing
TestAmerica

ORIGIN ID: ILYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 300
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACTWT: 60.95 LB
CAD: BS9116/CAT/E3510
BILL RECEIPTEN

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR
RIDC PARK
PITTSBURGH PA 15238

(412) 968-7068
REF: ACC PLT WANSLEY



J21 020121101 01

MPS# 5220 7116 6464
0263

Mstr# 5220 7116 6442

X0 AGCA

Uncorrected Temp
Thermometer ID

GF 0 Initials S

PT-W-SR-304-616-11/8/18

SATURDAY 12:00P
PRIORITY OVERNIGHT

PA-US 15238
PIT



180-134763 Waybill

eurofins

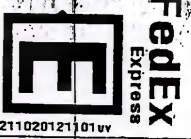
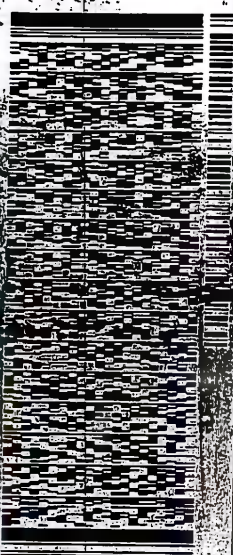
Environment Testing
TestAmerica

ORIGIN ID: ILYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 300
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACTWT: 60.95 LB
CAD: BS9116/CAT/E3510
BILL RECEIPTEN

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR
RIDC PARK
PITTSBURGH PA 15238

(412) 968-7068
REF: ACC PLT WANSLEY



MA101210201127

TRK# 5220 7116 6442
0201

MASTER

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Uncorrected Temp
Thermometer ID

GF 0 Initials S

PT-W-SR-304-616-11/8/18


SATURDAY 12:00P
PRIORITY OVERNIGHT

PA-US 15238
PIT

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SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
 301 ALPHA DR.
 RIDC PARK
 PITTSBURGH PA 15238
 (412) 963-7058
 REF: ACC PLT WANSLEY



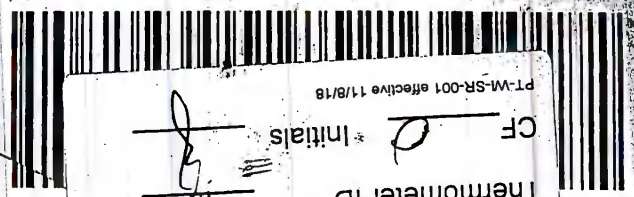
SATURDAY 12:00P

PS# 5220 7116 6475
 4 of 6
 Mstr# 5220 7116 6442
 0201

XO AGGA

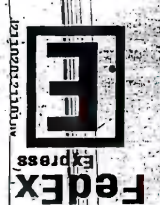
15238 PA PIT

Uncorrected temp 2.9 °C
 Thermometer ID
 Initials
 CF
 PT-WI-SR-001 effective 11/8/18



SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
 301 ALPHA DR.
 RIDC PARK
 PITTSBURGH PA 15238
 (412) 963-7058
 REF: ACC PLT WANSLEY



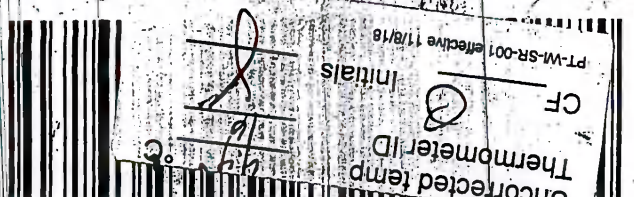
SATURDAY 12:00P

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 5 of 6
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 0201

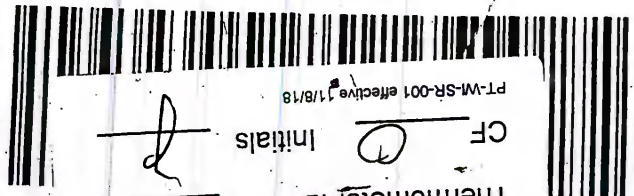
XO AGGA

15238 PA-US PIT

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



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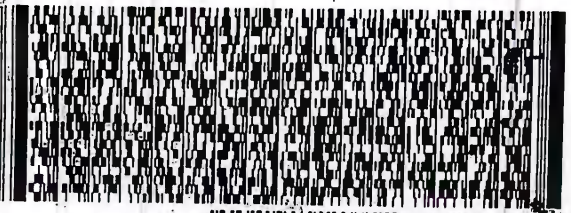


PT-WI-SR-001 effective 1/8/18
 Initials Q
 Thermometer ID 29
 Uncorrected temp 29 °C

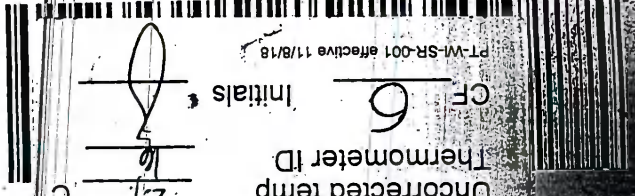
XO AGCA

MPS# 5220 7116 6497
 Mstr# 5220 7116 6442
 6 of 6

SATURDAY 12:00P
 PRIORITY OVERNIGHT



TO SAMPLE RECEIVING
 EUROFINS TESTAMERICA PITTSBURGH
 301 ALPHA DR.
 RIDC PARK
 PITTSBURGH PA 15238
 REF: ACC PLT WANSLEY
 (412) 963-7068

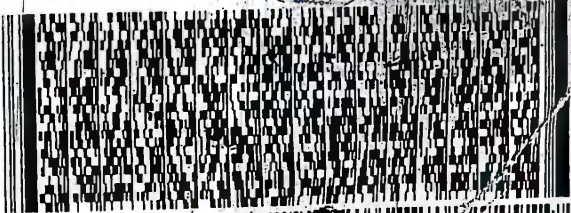


PT-WI-SR-001 effective 1/8/18
 Initials 6
 Thermometer ID 16
 Uncorrected temp 27 °C

XO AGCA

MPS# 5220 7116 6453
 Mstr# 5220 7116 6442
 2 of 6

SATURDAY 12:00P
 PRIORITY OVERNIGHT



TO SAMPLE RECEIVING
 EUROFINS TESTAMERICA PITTSBURGH
 301 ALPHA DR.
 RIDC PARK
 PITTSBURGH PA 15238
 REF: ACC PLT WANSLEY
 (412) 963-7068

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180-134765 Waybill



Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NH
SULLY RD 800
NORCROSS GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACTING TA 60 85 LB
CAD: 859116/CAFE3510

BILL RECIPIENT

SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR
RIDC PARK
PITTSBURGH PA 15238

(412) 983-7068
REF: ACC PLT WANSLEY



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SATURDAY 12:00P
PRIORITY OVERNIGHT

3 0 1 6

MPS# 5220 7116 6464

0201

Mstr# 5220 7116 6442

XO AGGA

15238
PA-US
PIT

Uncorrected temp

9.2 °C

Thermometer ID

16

CF Initials

8

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



Part# 159469-43/PTWEXP 09/22

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Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NH
SULLY RD 800
NORCROSS GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACTING TA 60 85 LB
CAD: 859116/CAFE3510

BILL RECIPIENT

SAMPLE RECIEVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR
RIDC PARK
PITTSBURGH PA 15238

(412) 983-7068
REF: ACC PLT WANSLEY



FedEx
Express



SATURDAY 12:00P
PRIORITY OVERNIGHT

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TRK# 5220 7116 6442

MASTER

XO

15238
PA-US
PIT

Uncorrected temp
Thermometer ID

9.4 °C

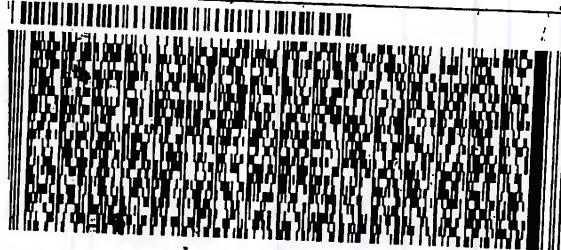
CF Initials

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



TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: ACC PLT WANSLEY



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Express



4 of 6
MPS# 5220 7116 6475
Mstr# 5220 7116 6442

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

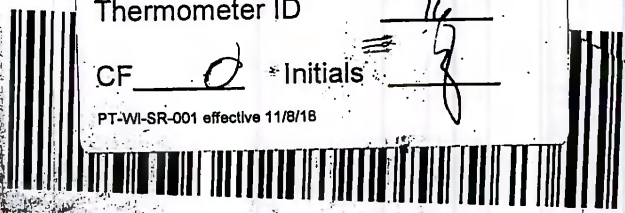
15238
PIT

Uncorrected temp
Thermometer ID

2.9 °C

CF o Initials g

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



TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: ACC PLT WANSLEY



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Express



5 of 6
MPS# 5220 7116 6486
Mstr# 5220 7116 6442

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

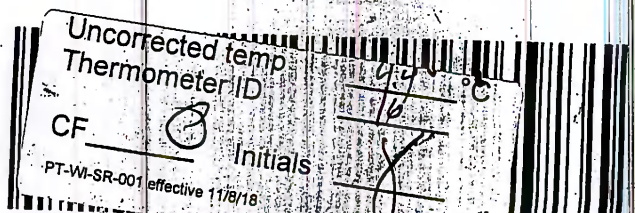
15238
PIT

Uncorrected temp
Thermometer ID

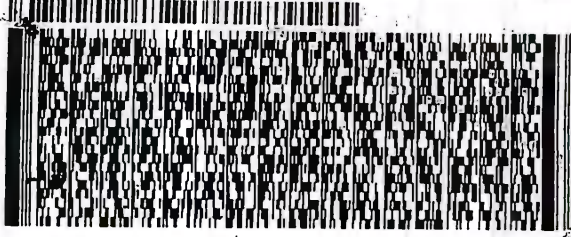
2.9 °C

CF o Initials g

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



UNITED STATES US
TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 983-7058
REF: ACC PLT WANSLEY



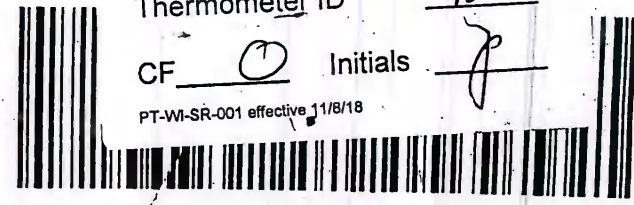
6 of 6
MPS# 0263 **5220 7116 6497**
Mstr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
PIT

Uncorrected temp 23 °C
Thermometer ID 16

CF 0 Initials J

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



UNITED STATES US
TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 983-7058
REF: ACC PLT WANSLEY



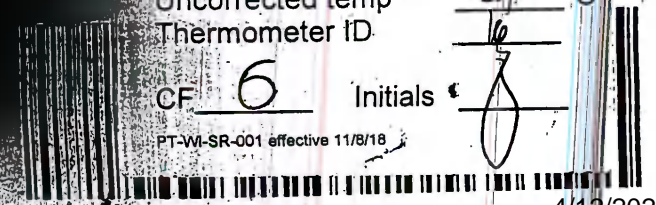
2 of 6
MPS# 0263 **5220 7116 6453**
Mstr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
PA-US PIT

Uncorrected temp 21 °C
Thermometer ID 16

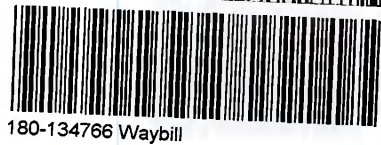
CF 6 Initials J

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



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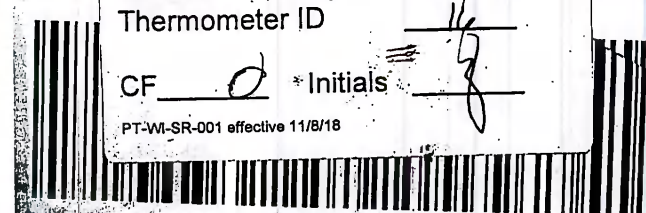
TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: ACC PLT WANSLEY



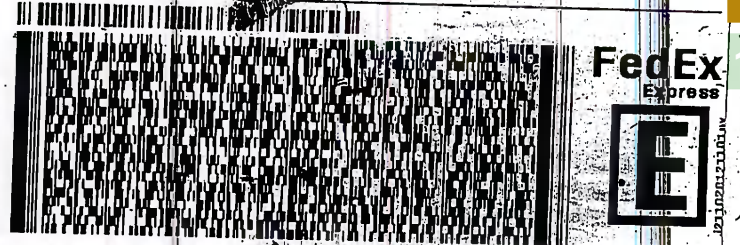
4 91 0
MPS# 5220 7116 6475
1str# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
PIT

Uncorrected temp 2.9 °C
Thermometer ID 16
CF o * Initials g
PT-WI-SR-001 effective 11/8/18



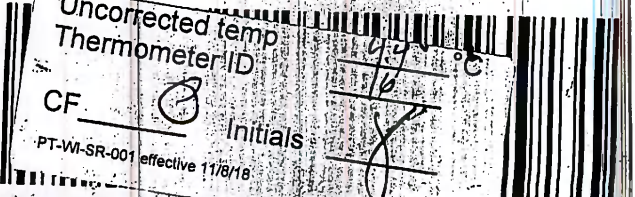
UNITED STATES US
TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: ACC PLT WANSLEY



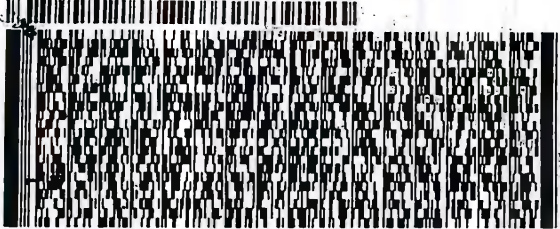
5 of 6
MPS# 5220 7116 6486
Mstr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
PA-US PIT

Uncorrected temp 2.9 °C
Thermometer ID 16
CF o * Initials g
PT-WI-SR-001 effective 11/8/18



UNITED STATES - US
TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 983-7068
REF: ACC PLT WANSLEY



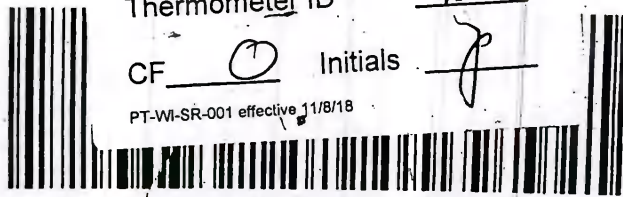
6 of 6
MPS# 0263 **5220 7116 6497**
Mstr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
PIT

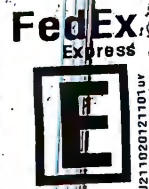
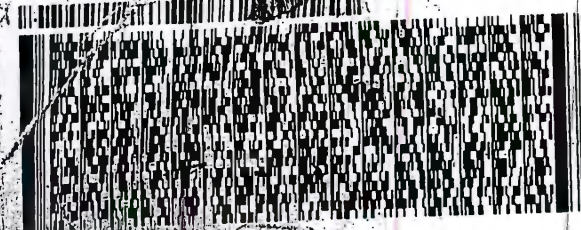
Uncorrected temp 2.9 °C
Thermometer ID 16

CF 0 Initials J

PT-WI-SR-001 effective 1/8/18



UNITED STATES US
TO **SAMPLE RECIEVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 983-7068
REF: ACC PLT WANSLEY



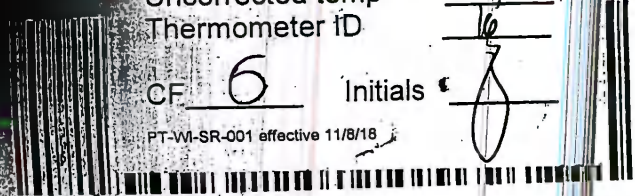
6 of 6
MPS# 0263 **5220 7116 6453**
Mstr# 5220 7116 6442 0201
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA 15238
PA-US PIT

Uncorrected temp 2.1 °C
Thermometer ID 16

CF 6 Initials J

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



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FedEx®

eurofins

Environment Testing
TestAmerica

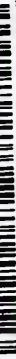
ORIGIN ID: LIVA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NH
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACT#GTR 603541B
CAD: 859116/CAFE3510

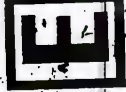
BILL RECIPIENT

SAMPLE RECIEVING
EUROFINS-TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: ACC PLT WANSLEY



FedEx
Express



SATURDAY 12:00P
PRIORITY OVERNIGHT

3 01 6
MPS# 5220 7116 6464

Mstr# 5220 7116 6442 [0201]

XO AGGA

15238
PA-US
PIT

Uncorrected temp 4.2 °C
Thermometer ID 16

CF 0 Initials 0

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



4/12/2022

Do not lift using

eurofins

Environment Testing
TestAmerica

ORIGIN ID: LIVA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NH
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 04MAR22
ACT#GTR 603541B
CAD: 859116/CAFE3510

BILL RECIPIENT

SAMPLE RECIEVING
EUROFINS-TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: ACC PLT WANSLEY



FedEx
Express



SATURDAY 12:00P
PRIORITY OVERNIGHT

1 01 6
TRK# 5220 7116 6442

MASTER UNCORRECTED TEMP

XO

15238
PA-US
PIT

CF 0 Initials 0
Thermometer ID 16
Uncorrected temp 4.2 °C
PT-WM-SR-001 effective 11/8/18



Part #159469-434 TW EXP 09/22

52034/908R/5F 49

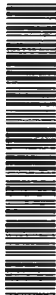
J21 020121010V

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Chain of Custody Record



Environment Testing
 America



Client Information (Sub Contract Lab)		Sampler: Lab PM: Brown, Shall		Carrier Tracking No(s): 180-456436.1	
Client Contact: Shipping/Receiving		Phone: Brown, Shall		Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.		E-Mail: Shall.Brown@Eurofinset.com		Job #: 180-134761-2	
Address: 13715 Rider Trail North,				State of Origin: Georgia	
City: Earth City					
State, Zip: MO, 63045					
Phone: 314-298-8566(Tel) 314-298-8757(Fax)					
Email:					
Project # 18019922					
Site: Wansley Ash Pond					
Wansley CCR					
Sample Identification - Client ID (Lab ID)		Matrix (W=Water, S=Solid, O=Soil, BT=Tissue, A=Air)		Analysis Requested	
WGWC-12 (180-134761-1)	Sample Time: 3/4/22 14:30 Eastern	Sample Type: G=Grab	Preservation Code: Water	9320_Ra228/PreSep_0 Radium 228	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:
				9315_Ra226/PreSep_21 Radium 226	
				Ra226Ra228 GFPC/ Combined Radium 226 and Radium 228	
				Perform MS/MSD (Yes or No)	
				Field Filtered Sample (Yes or No)	Total Number of containers 2
					Special Instructions/Note:
<p>Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh being the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh</p>					
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify)</p> <p>Primary Deliverable Rank: 2</p> <p>Empty Kit Relinquished by:</p> <p>Relinquished by: <i>[Signature]</i></p> <p>Relinquished by: FEDEX</p> <p>Relinquished by:</p> <p>Relinquished by:</p> <p>Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Custody Seal No.:</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>Method of Shipment: FED EX</p> <p>Date: 3-8-22 1700</p> <p>Received by: Sana Worthington</p> <p>Received by: MAR 09 2022 1008</p> <p>Company: ee t a r t h</p> <p>Company: Company</p> <p>Company: Company</p> <p>Company: Company</p> <p>Company: Company</p> <p>Company: Company</p> <p>Company: Company</p>					



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 180-456436.1
Client Contact: Shipping/Receiving		E-Mail: Shali.Brown@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 #: 180-134765-2		
City: Earth City		Analysis Requested		
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 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)		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Total Number of Containers		
PO #:		9315 Ra226/PreSep_21 Radium 226		
WO #:		9320 Ra226/PreSep_0 Radium 226		
Project #: 18019922		9326 Ra228 GFC/ Combined Radium 226 and Radium 228		
Site: Wansley CCR		Form MS/MSD (Yes or No)		
		Field Filtered Sample (Yes or No)		
		Preservation Code:		
		Matrix (W=Water, S=Solid, O=Water/Oil, BT=Tissue, A=Al)		
		Sample Type (C=Comp, G=Grab)		
		Sample Time		
		Sample Date		
		Sample Identification - Client ID (Lab ID)		
DUP-2 (180-134765-1)	3/3/22	00:01 Eastern	X	X
WGC-15 (180-134765-2)	3/3/22	13:40 Eastern	X	X
WGC-16 (180-134765-3)	3/3/22	14:52 Eastern	X	X
WGWA-7 (180-134765-4)	3/3/22	11:52 Eastern	X	X
WGC-13 (180-134765-5)	3/3/22	13:13 Eastern	X	X
WGC-14A (180-134765-6)	3/3/22	14:07 Eastern	X	X
WGC-11 (180-134765-7)	3/3/22	15:30 Eastern	X	X
FB-2 (180-134765-8)	3/3/22	15:15 Eastern	X	X
WGC-25 (180-134765-9)	3/4/22	10:50 Eastern	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>				
Possible Hazard Identification				
Unconfirmed				
Deliverable Requested: I, II, III, IV, Other (specify)				
Primary Deliverable Rank: 2				
Empty Kit Relinquished by:				
Date: _____ Time: _____ Method of Shipment: _____				
Relinquished by: <i>Mo</i> Date: 3-8-22 17:00 Company: <i>cestra</i>				
Relinquished by: _____ Date: _____ Company: _____				
Relinquished by: _____ Date: _____ Company: _____				
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks:				
<p>Special Instructions/QC Requirements: <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p>				

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Lab PM Brown, Shali	Carrier Tracking No(s):	COC No: 180-456436.2
Shipping/Receiving		Phone: E-Mail: Shali.Brown@Eurofins.com	State of Origin: Georgia	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note) 180-134765-2		
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		Preservation Codes: 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:		
Due Date Requested: 4/10/2022 TAT Requested (days):		Analysis Requested		
PO #:	WO #:	Project #: 18019922	9320_Ra228/PreSep_0 Radium 228	Total Number of containers
SSOW#:	Project Name: Wansley ash Pond Site: Wansley CCR	9315_Ra226/PreSep_21 Radium 226	9320_Ra228/PreSep_0 Radium 228	
Sample Identification - Client ID (Lab ID)		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Special Instructions/Note:
WGWC-20 (180-134765-10)	Sample Date: 3/4/22	Sample Time: 12:11 Eastern	Sample Type (C=Comp, G=grab): Water	2
FB-3 (180-134765-11)	Sample Date: 3/4/22	Sample Time: 11:50 Eastern	Sample Type (C=Comp, G=grab): Water	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 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>MW</i>		Date: 3-8-22	Time: 1700	Company: Cetera
Relinquished by:		Date/Time: 3-8-22	Time: 1700	Company: Cetera
Relinquished by:		Date/Time:	Time:	Company:
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks		



Chain of Custody Record



Client Information (Sub Contract Lab)				Sampler: Lab PM: Brown, Shali				
Client Contact: Shipping/Receiving				Phone: E-Mail: Shali.Brown@Eurofinsnet.com				
Company: TestAmerica Laboratories, Inc.				Address: 13715 Rider Trail North, Earth City, MO, 63045				
Phone: 314-298-8566 (Tel) 314-298-8757 (Fax)				E-mail:				
Project Name: Wansley Ash Pond				Project #: 18019922				
Site: Wansley CCR				SSOW#:				
Due Date Requested: 4/10/2022		TAT Requested (days):		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>		Perform M/MSD (Yes or No) <input checked="" type="checkbox"/>		
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	Sample Identification - Client ID (Lab ID)	Radium-228		9320_Ra228/PreSep_0 Radium 228	
					9315_Ra228/PreSep_21 Radium 226		Ra228Ra228_GFP/Combined Radium-226 and Radium-228	
EB-3 (180-134766-1)	3/4/22 13:15 Eastern	Water	Water		X	X	X	
WGWC-22 (180-134766-2)	3/4/22 13:50 Eastern	Water	Water		X	X	X	
<p>Analysis Requested:</p> <p>A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDTA Z - other (specify) Other: _____</p> <p>Preservation Codes:</p> <p>13715 Rider Trail North, Earth City, MO, 63045</p> <p>9315_Ra228/PreSep_21 Radium 226</p> <p>9320_Ra228/PreSep_0 Radium 228</p> <p>Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/></p> <p>Perform M/MSD (Yes or No) <input checked="" type="checkbox"/></p> <p>Sample Identification - Client ID (Lab ID)</p> <p>EB-3 (180-134766-1)</p> <p>WGWC-22 (180-134766-2)</p>								
<p>Special Instructions/Note:</p> <p>Total Number of Containers: 2</p>				<p>Special Instructions/Note:</p>				
<p>Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh</p>								
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) _____</p> <p>Primary Deliverable Rank: 2</p> <p>Empty Kit Relinquished by: _____ Date: _____</p> <p>Relinquished by: _____ Date/Time: 3-8-2022 17:00</p> <p>Relinquished by: _____ Date/Time: _____</p> <p>Relinquished by: _____ Date/Time: _____</p> <p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No</p> <p>Custody Seal No.: _____</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>Method of Shipment: _____</p> <p>Received by: _____ Date/Time: _____</p> <p>Company: _____</p>								
<p>Received by: <i>Sena Workington</i> Date/Time: MAR 09 2022 16:08</p> <p>Company: <i>ETHS R</i></p>								
<p>Cooler Temperature(s) °C and Other Remarks: _____</p>								

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134761-2

Login Number: 134761

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: 180-134761-2

Login Number: 134761

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 03/09/22 11:06 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: 180-134761-2

Login Number: 134763

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: 180-134761-2

Login Number: 134763

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 03/09/22 11:12 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: 180-134761-2

Login Number: 134765

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: 180-134761-2

Login Number: 134765

List Source: Eurofins St. Louis

List Number: 2

List Creation: 03/09/22 11:12 AM

Creator: Worthington, Sierra M

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: 180-134761-2

Login Number: 134766

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: 180-134761-2

Login Number: 134766

List Source: Eurofins St. Louis

List Number: 2

List Creation: 03/09/22 11:12 AM

Creator: Worthington, Sierra M

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



ANALYTICAL REPORT

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

Laboratory Job ID: 180-134564-1

Client Project/Site: Wansley Ash Pond

Sampling Event: Wansley Ash Pond Initial Scan Event

Revision: 1

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:

4/6/2022 4:28:02 PM

Shali Brown, Project Manager II

(615)301-5031

Shali.Brown@et.eurofinsus.com

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

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

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Job ID: 180-134564-1

Laboratory: Eurofins Pittsburgh

Narrative

**Job Narrative
180-134564-1**

Comments

040622 Revised report to correct Boron results to ND after re-analysis for the following samples: WGWA-1 (180-134564-1) and WGWA-6 (180-134568-4), This report replaces the report previously issued on 031722.

Receipt

The samples were received on 3/3/2022 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 2.7° C, 3.7° C and 3.9° C.

GC Semi VOA

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

Metals

Method 6020B: The continuing calibration verification (CCV) associated with batch 180-391051 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: WGWA-5 (180-134568-3), WGWA-6 (180-134568-4), Dup-1 (180-134568-5) and (CCV 180-391051/65).

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

Method SM 2320B: The method blank for analytical batch 180-390904 contained results above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank or were ND.

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: Wansley Ash Pond

Job ID: 180-134564-1

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.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.

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: Wansley Ash Pond

Job ID: 180-134564-1

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-22
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	03-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-22
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-02-22
North Carolina (WW/SW)	State	434	12-31-22
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22 *
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21 *
South Carolina	State	89014	06-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-22

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

Sample Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-134564-1	WGWA-1	Water	03/01/22 12:11	03/03/22 09:30
180-134564-2	EB-1	Water	03/01/22 13:00	03/03/22 09:30
180-134564-3	FB-1	Water	03/01/22 14:50	03/03/22 09:30
180-134564-4	WGWA-2	Water	03/01/22 15:10	03/03/22 09:30
180-134568-1	WGWA-3	Water	03/01/22 15:43	03/03/22 09:30
180-134568-2	WGWA-4	Water	02/28/22 16:28	03/03/22 09:30
180-134568-3	WGWA-5	Water	03/01/22 13:07	03/03/22 09:30
180-134568-4	WGWA-6	Water	03/01/22 14:37	03/03/22 09:30
180-134568-5	Dup-1	Water	03/01/22 00:01	03/03/22 09:30

- 1
- 2
- 3
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- 11
- 12
- 13

Method Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
EPA 9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
SM2320 B	Alkalinity, Total	SM18	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	TAL 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:

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

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: WGWA-1

Lab Sample ID: 180-134564-1

Date Collected: 03/01/22 12:11

Matrix: Water

Date Received: 03/03/22 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	EPA 300.0 R2.1		1			390542	03/05/22 20:57	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391051	03/09/22 12:57	RSK	TAL PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			393766	03/31/22 11:38	RSK	TAL PIT
Instrument ID: NEMO										
Total/NA	Prep	7470A			25 mL	25 mL	391618	03/15/22 08:36	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			391910	03/16/22 14:37	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 14:12	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390551	03/05/22 15:33	SNR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 17:37	CMT	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			391140	03/01/22 12:11	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-1

Lab Sample ID: 180-134564-2

Date Collected: 03/01/22 13:00

Matrix: Water

Date Received: 03/03/22 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	EPA 300.0 R2.1		1			390542	03/05/22 21:12	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391051	03/09/22 09:22	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	391618	03/15/22 08:36	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			391910	03/16/22 14:38	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 14:44	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390551	03/05/22 15:33	SNR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			390904	03/08/22 17:21	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: FB-1

Lab Sample ID: 180-134564-3

Date Collected: 03/01/22 14:50

Matrix: Water

Date Received: 03/03/22 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	EPA 300.0 R2.1		1			390542	03/05/22 21:26	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391051	03/09/22 09:26	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	391618	03/15/22 08:36	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			391910	03/16/22 14:39	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 14:55	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390551	03/05/22 15:33	SNR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			390904	03/08/22 17:15	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Client Sample ID: WGWA-2

Lab Sample ID: 180-134564-4

Date Collected: 03/01/22 15:10

Matrix: Water

Date Received: 03/03/22 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	EPA 300.0 R2.1		1			390542	03/05/22 23:22	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391051	03/09/22 13:00	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	391618	03/15/22 08:36	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			391910	03/16/22 14:40	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 15:06	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390551	03/05/22 15:33	SNR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			390904	03/08/22 17:10	CMT	TAL PIT
Instrument ID: PCTITRATOR										
Total/NA	Analysis	Field Sampling		1			391140	03/01/22 15:10	FDS	TAL PIT
Instrument ID: NOEQUIP										

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Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: WGWA-3

Lab Sample ID: 180-134568-1

Date Collected: 03/01/22 15:43

Matrix: Water

Date Received: 03/03/22 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	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			390542	03/05/22 17:07	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			391051	03/09/22 13:04	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391618	03/15/22 08:36	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			391910	03/16/22 14:41	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390502	03/05/22 09:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390541	03/05/22 11:57	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	390551	03/05/22 15:33	SNR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/12/22 00:59	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391140	03/01/22 15:43	FDS	TAL PIT

Client Sample ID: WGWA-4

Lab Sample ID: 180-134568-2

Date Collected: 02/28/22 16:28

Matrix: Water

Date Received: 03/03/22 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	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			390542	03/05/22 17:21	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			391051	03/09/22 13:08	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391618	03/15/22 08:36	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			391910	03/16/22 14:43	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390502	03/05/22 09:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390541	03/05/22 13:03	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	390551	03/05/22 15:33	SNR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			390904	03/08/22 16:57	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391140	02/28/22 16:28	FDS	TAL PIT

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Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: WGWA-5

Lab Sample ID: 180-134568-3

Date Collected: 03/01/22 13:07

Matrix: Water

Date Received: 03/03/22 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	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			390542	03/05/22 17:35	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			391051	03/09/22 13:22	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391618	03/15/22 08:36	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			391910	03/16/22 14:44	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390502	03/05/22 09:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390541	03/05/22 13:25	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	390551	03/05/22 15:33	SNR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391320	03/09/22 17:44	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391140	03/01/22 13:07	FDS	TAL PIT

Client Sample ID: WGWA-6

Lab Sample ID: 180-134568-4

Date Collected: 03/01/22 14:37

Matrix: Water

Date Received: 03/03/22 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	EPA 300.0 R2.1 Instrument ID: INTEGRION		1			390542	03/05/22 17:50	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			391051	03/09/22 13:47	RSK	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: NEMO		1			393766	03/31/22 11:41	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	391543	03/14/22 13:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			391697	03/15/22 13:24	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	390502	03/05/22 09:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			390541	03/05/22 13:47	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	390551	03/05/22 15:33	SNR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			390904	03/08/22 16:23	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391140	03/01/22 14:37	FDS	TAL PIT

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: Dup-1
Date Collected: 03/01/22 00:01
Date Received: 03/03/22 09:30

Lab Sample ID: 180-134568-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			390542	03/05/22 22:10	JRB	TAL PIT
Instrument ID: INTEGRION										
Total Recoverable	Prep	3005A			25 mL	25 mL	390792	03/08/22 10:06	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			391051	03/09/22 13:51	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	391543	03/14/22 13:29	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			391697	03/15/22 13:25	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Prep	9030B			50 mL	50 mL	390812	03/08/22 12:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034		1			390865	03/08/22 15:16	HEK	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	390551	03/05/22 15:33	SNR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM2320 B		1			391320	03/09/22 17:51	CMT	TAL PIT
Instrument ID: PCTITRATOR										

Laboratory References:

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

Analyst References:

Lab: TAL PIT

Batch Type: Prep

- HEK = Hope Kiesling
- RGM = Rebecca Manns
- RJR = Ron Rosenbaum

Batch Type: Analysis

- CMT = Cassandra Tlumac
- FDS = Sampler Field
- HEK = Hope Kiesling
- JRB = James Burzio
- RJR = Ron Rosenbaum
- RSK = Robert Kurtz
- SNR = Sabra Richart

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: WGWA-1

Lab Sample ID: 180-134564-1

Date Collected: 03/01/22 12:11

Matrix: Water

Date Received: 03/03/22 09:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.1		1.0	0.71	mg/L			03/05/22 20:57	1
Fluoride	<0.026		0.10	0.026	mg/L			03/05/22 20:57	1
Sulfate	<0.76		1.0	0.76	mg/L			03/05/22 20:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/08/22 10:06	03/09/22 12:57	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/22 10:06	03/09/22 12:57	1
Barium	0.047		0.010	0.0031	mg/L		03/08/22 10:06	03/09/22 12:57	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/22 10:06	03/09/22 12:57	1
Boron	<0.060		0.080	0.060	mg/L		03/08/22 10:06	03/31/22 11:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/22 10:06	03/09/22 12:57	1
Calcium	1.1		0.50	0.13	mg/L		03/08/22 10:06	03/09/22 12:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/22 10:06	03/09/22 12:57	1
Cobalt	0.00073	J	0.0025	0.00026	mg/L		03/08/22 10:06	03/09/22 12:57	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/08/22 10:06	03/09/22 12:57	1
Lithium	0.0029	J	0.0050	0.00083	mg/L		03/08/22 10:06	03/09/22 12:57	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/22 10:06	03/09/22 12:57	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/22 10:06	03/09/22 12:57	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/22 10:06	03/09/22 12:57	1
Sodium	3.2		0.50	0.18	mg/L		03/08/22 10:06	03/09/22 12:57	1
Potassium	1.2		0.50	0.16	mg/L		03/08/22 10:06	03/09/22 12:57	1
Iron	<0.028		0.050	0.028	mg/L		03/08/22 10:06	03/09/22 12:57	1
Magnesium	1.1		0.50	0.050	mg/L		03/08/22 10:06	03/09/22 12:57	1
Manganese	0.010		0.0050	0.0013	mg/L		03/08/22 10:06	03/09/22 12:57	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/15/22 08:36	03/16/22 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	5.8		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 14:12	1
Total Dissolved Solids	30		10	10	mg/L			03/05/22 15:33	1
Total Alkalinity as CaCO3 to pH 4.5	6.9		5.0	5.0	mg/L			03/09/22 17:37	1
Bicarbonate Alkalinity as CaCO3	6.9		5.0	5.0	mg/L			03/09/22 17:37	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.32				SU			03/01/22 12:11	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: EB-1

Lab Sample ID: 180-134564-2

Date Collected: 03/01/22 13:00

Matrix: Water

Date Received: 03/03/22 09:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/05/22 21:12	1
Fluoride	<0.026		0.10	0.026	mg/L			03/05/22 21:12	1
Sulfate	<0.76		1.0	0.76	mg/L			03/05/22 21:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/08/22 10:06	03/09/22 09:22	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/22 10:06	03/09/22 09:22	1
Barium	<0.0031		0.010	0.0031	mg/L		03/08/22 10:06	03/09/22 09:22	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/22 10:06	03/09/22 09:22	1
Boron	<0.060		0.080	0.060	mg/L		03/08/22 10:06	03/09/22 09:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/22 10:06	03/09/22 09:22	1
Calcium	<0.13		0.50	0.13	mg/L		03/08/22 10:06	03/09/22 09:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/22 10:06	03/09/22 09:22	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/22 10:06	03/09/22 09:22	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/08/22 10:06	03/09/22 09:22	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/08/22 10:06	03/09/22 09:22	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/22 10:06	03/09/22 09:22	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/22 10:06	03/09/22 09:22	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/22 10:06	03/09/22 09:22	1
Sodium	<0.18		0.50	0.18	mg/L		03/08/22 10:06	03/09/22 09:22	1
Potassium	<0.16		0.50	0.16	mg/L		03/08/22 10:06	03/09/22 09:22	1
Iron	<0.028		0.050	0.028	mg/L		03/08/22 10:06	03/09/22 09:22	1
Magnesium	<0.050		0.50	0.050	mg/L		03/08/22 10:06	03/09/22 09:22	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/08/22 10:06	03/09/22 09:22	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/15/22 08:36	03/16/22 14:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	7.4		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 14:44	1
Total Dissolved Solids	<10		10	10	mg/L			03/05/22 15:33	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/08/22 17:21	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/08/22 17:21	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: FB-1

Lab Sample ID: 180-134564-3

Date Collected: 03/01/22 14:50

Matrix: Water

Date Received: 03/03/22 09:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/05/22 21:26	1
Fluoride	<0.026		0.10	0.026	mg/L			03/05/22 21:26	1
Sulfate	<0.76		1.0	0.76	mg/L			03/05/22 21:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/08/22 10:06	03/09/22 09:26	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/22 10:06	03/09/22 09:26	1
Barium	<0.0031		0.010	0.0031	mg/L		03/08/22 10:06	03/09/22 09:26	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/22 10:06	03/09/22 09:26	1
Boron	<0.060		0.080	0.060	mg/L		03/08/22 10:06	03/09/22 09:26	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/22 10:06	03/09/22 09:26	1
Calcium	<0.13		0.50	0.13	mg/L		03/08/22 10:06	03/09/22 09:26	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/22 10:06	03/09/22 09:26	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/22 10:06	03/09/22 09:26	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/08/22 10:06	03/09/22 09:26	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/08/22 10:06	03/09/22 09:26	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/22 10:06	03/09/22 09:26	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/22 10:06	03/09/22 09:26	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/22 10:06	03/09/22 09:26	1
Sodium	<0.18		0.50	0.18	mg/L		03/08/22 10:06	03/09/22 09:26	1
Potassium	<0.16		0.50	0.16	mg/L		03/08/22 10:06	03/09/22 09:26	1
Iron	<0.028		0.050	0.028	mg/L		03/08/22 10:06	03/09/22 09:26	1
Magnesium	<0.050		0.50	0.050	mg/L		03/08/22 10:06	03/09/22 09:26	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/08/22 10:06	03/09/22 09:26	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/15/22 08:36	03/16/22 14:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	6.7		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 14:55	1
Total Dissolved Solids	<10		10	10	mg/L			03/05/22 15:33	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/08/22 17:15	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/08/22 17:15	1

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Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: WGWA-2

Lab Sample ID: 180-134564-4

Date Collected: 03/01/22 15:10

Matrix: Water

Date Received: 03/03/22 09:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.7		1.0	0.71	mg/L			03/05/22 23:22	1
Fluoride	0.058	J	0.10	0.026	mg/L			03/05/22 23:22	1
Sulfate	1.6		1.0	0.76	mg/L			03/05/22 23:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/08/22 10:06	03/09/22 13:00	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/22 10:06	03/09/22 13:00	1
Barium	0.020		0.010	0.0031	mg/L		03/08/22 10:06	03/09/22 13:00	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/22 10:06	03/09/22 13:00	1
Boron	<0.060		0.080	0.060	mg/L		03/08/22 10:06	03/09/22 13:00	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/22 10:06	03/09/22 13:00	1
Calcium	13		0.50	0.13	mg/L		03/08/22 10:06	03/09/22 13:00	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/22 10:06	03/09/22 13:00	1
Cobalt	0.00038	J	0.0025	0.00026	mg/L		03/08/22 10:06	03/09/22 13:00	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/08/22 10:06	03/09/22 13:00	1
Lithium	0.0085		0.0050	0.00083	mg/L		03/08/22 10:06	03/09/22 13:00	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/22 10:06	03/09/22 13:00	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/22 10:06	03/09/22 13:00	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/22 10:06	03/09/22 13:00	1
Sodium	9.2		0.50	0.18	mg/L		03/08/22 10:06	03/09/22 13:00	1
Potassium	2.3		0.50	0.16	mg/L		03/08/22 10:06	03/09/22 13:00	1
Iron	0.030	J	0.050	0.028	mg/L		03/08/22 10:06	03/09/22 13:00	1
Magnesium	4.8		0.50	0.050	mg/L		03/08/22 10:06	03/09/22 13:00	1
Manganese	0.032		0.0050	0.0013	mg/L		03/08/22 10:06	03/09/22 13:00	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/15/22 08:36	03/16/22 14:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	5.4		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 15:06	1
Total Dissolved Solids	92		10	10	mg/L			03/05/22 15:33	1
Total Alkalinity as CaCO3 to pH 4.5	67	B	5.0	5.0	mg/L			03/08/22 17:10	1
Bicarbonate Alkalinity as CaCO3	67	B	5.0	5.0	mg/L			03/08/22 17:10	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.20				SU			03/01/22 15:10	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: WGWA-3

Lab Sample ID: 180-134568-1

Date Collected: 03/01/22 15:43

Matrix: Water

Date Received: 03/03/22 09:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.71	mg/L			03/05/22 17:07	1
Fluoride	<0.026		0.10	0.026	mg/L			03/05/22 17:07	1
Sulfate	0.98	J	1.0	0.76	mg/L			03/05/22 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/08/22 10:06	03/09/22 13:04	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/22 10:06	03/09/22 13:04	1
Barium	0.014		0.010	0.0031	mg/L		03/08/22 10:06	03/09/22 13:04	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/22 10:06	03/09/22 13:04	1
Boron	<0.060		0.080	0.060	mg/L		03/08/22 10:06	03/09/22 13:04	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/22 10:06	03/09/22 13:04	1
Calcium	1.6		0.50	0.13	mg/L		03/08/22 10:06	03/09/22 13:04	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/22 10:06	03/09/22 13:04	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/22 10:06	03/09/22 13:04	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/08/22 10:06	03/09/22 13:04	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/08/22 10:06	03/09/22 13:04	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/22 10:06	03/09/22 13:04	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/22 10:06	03/09/22 13:04	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/22 10:06	03/09/22 13:04	1
Sodium	2.6		0.50	0.18	mg/L		03/08/22 10:06	03/09/22 13:04	1
Potassium	1.2		0.50	0.16	mg/L		03/08/22 10:06	03/09/22 13:04	1
Iron	<0.028		0.050	0.028	mg/L		03/08/22 10:06	03/09/22 13:04	1
Magnesium	1.0		0.50	0.050	mg/L		03/08/22 10:06	03/09/22 13:04	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/08/22 10:06	03/09/22 13:04	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/15/22 08:36	03/16/22 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	6.3		3.0	2.1	mg/L		03/05/22 09:00	03/05/22 11:57	1
Total Dissolved Solids	31		10	10	mg/L			03/05/22 15:33	1
Total Alkalinity as CaCO3 to pH 4.5	11		5.0	5.0	mg/L			03/12/22 00:59	1
Bicarbonate Alkalinity as CaCO3	11		5.0	5.0	mg/L			03/12/22 00:59	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.59				SU			03/01/22 15:43	1

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Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: WGWA-4

Lab Sample ID: 180-134568-2

Date Collected: 02/28/22 16:28

Matrix: Water

Date Received: 03/03/22 09:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.71	mg/L			03/05/22 17:21	1
Fluoride	0.083	J	0.10	0.026	mg/L			03/05/22 17:21	1
Sulfate	8.4		1.0	0.76	mg/L			03/05/22 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/08/22 10:06	03/09/22 13:08	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/22 10:06	03/09/22 13:08	1
Barium	0.0053	J	0.010	0.0031	mg/L		03/08/22 10:06	03/09/22 13:08	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/22 10:06	03/09/22 13:08	1
Boron	<0.060		0.080	0.060	mg/L		03/08/22 10:06	03/09/22 13:08	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/22 10:06	03/09/22 13:08	1
Calcium	14		0.50	0.13	mg/L		03/08/22 10:06	03/09/22 13:08	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/22 10:06	03/09/22 13:08	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/22 10:06	03/09/22 13:08	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/08/22 10:06	03/09/22 13:08	1
Lithium	0.0050		0.0050	0.00083	mg/L		03/08/22 10:06	03/09/22 13:08	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/22 10:06	03/09/22 13:08	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/22 10:06	03/09/22 13:08	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/22 10:06	03/09/22 13:08	1
Sodium	7.0		0.50	0.18	mg/L		03/08/22 10:06	03/09/22 13:08	1
Potassium	2.6		0.50	0.16	mg/L		03/08/22 10:06	03/09/22 13:08	1
Iron	1.0		0.050	0.028	mg/L		03/08/22 10:06	03/09/22 13:08	1
Magnesium	2.4		0.50	0.050	mg/L		03/08/22 10:06	03/09/22 13:08	1
Manganese	0.14		0.0050	0.0013	mg/L		03/08/22 10:06	03/09/22 13:08	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/15/22 08:36	03/16/22 14:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	8.9		3.0	2.1	mg/L		03/05/22 09:00	03/05/22 13:03	1
Total Dissolved Solids	95		10	10	mg/L			03/05/22 15:33	1
Total Alkalinity as CaCO3 to pH 4.5	64	B	5.0	5.0	mg/L			03/08/22 16:57	1
Bicarbonate Alkalinity as CaCO3	64	B	5.0	5.0	mg/L			03/08/22 16:57	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.14				SU			02/28/22 16:28	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: WGWA-5

Lab Sample ID: 180-134568-3

Date Collected: 03/01/22 13:07

Matrix: Water

Date Received: 03/03/22 09:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			03/05/22 17:35	1
Fluoride	<0.026		0.10	0.026	mg/L			03/05/22 17:35	1
Sulfate	0.99	J	1.0	0.76	mg/L			03/05/22 17:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/08/22 10:06	03/09/22 13:22	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/22 10:06	03/09/22 13:22	1
Barium	0.017		0.010	0.0031	mg/L		03/08/22 10:06	03/09/22 13:22	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/08/22 10:06	03/09/22 13:22	1
Boron	<0.060		0.080	0.060	mg/L		03/08/22 10:06	03/09/22 13:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/22 10:06	03/09/22 13:22	1
Calcium	2.1		0.50	0.13	mg/L		03/08/22 10:06	03/09/22 13:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/22 10:06	03/09/22 13:22	1
Cobalt	0.0014	J	0.0025	0.00026	mg/L		03/08/22 10:06	03/09/22 13:22	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/08/22 10:06	03/09/22 13:22	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/08/22 10:06	03/09/22 13:22	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/22 10:06	03/09/22 13:22	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/22 10:06	03/09/22 13:22	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/22 10:06	03/09/22 13:22	1
Sodium	1.6		0.50	0.18	mg/L		03/08/22 10:06	03/09/22 13:22	1
Potassium	1.3		0.50	0.16	mg/L		03/08/22 10:06	03/09/22 13:22	1
Iron	0.33		0.050	0.028	mg/L		03/08/22 10:06	03/09/22 13:22	1
Magnesium	0.72		0.50	0.050	mg/L		03/08/22 10:06	03/09/22 13:22	1
Manganese	0.0076		0.0050	0.0013	mg/L		03/08/22 10:06	03/09/22 13:22	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/15/22 08:36	03/16/22 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	9.5		3.0	2.1	mg/L		03/05/22 09:00	03/05/22 13:25	1
Total Dissolved Solids	23		10	10	mg/L			03/05/22 15:33	1
Total Alkalinity as CaCO3 to pH 4.5	9.6		5.0	5.0	mg/L			03/09/22 17:44	1
Bicarbonate Alkalinity as CaCO3	9.6		5.0	5.0	mg/L			03/09/22 17:44	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.47				SU			03/01/22 13:07	1

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Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: WGWA-6

Lab Sample ID: 180-134568-4

Date Collected: 03/01/22 14:37

Matrix: Water

Date Received: 03/03/22 09:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			03/05/22 17:50	1
Fluoride	0.063	J	0.10	0.026	mg/L			03/05/22 17:50	1
Sulfate	9.2		1.0	0.76	mg/L			03/05/22 17:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/08/22 10:06	03/09/22 13:47	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/22 10:06	03/09/22 13:47	1
Barium	0.0071	J	0.010	0.0031	mg/L		03/08/22 10:06	03/09/22 13:47	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/08/22 10:06	03/09/22 13:47	1
Boron	<0.060		0.080	0.060	mg/L		03/08/22 10:06	03/31/22 11:41	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/22 10:06	03/09/22 13:47	1
Calcium	22		0.50	0.13	mg/L		03/08/22 10:06	03/09/22 13:47	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/22 10:06	03/09/22 13:47	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/22 10:06	03/09/22 13:47	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/08/22 10:06	03/09/22 13:47	1
Lithium	0.0060		0.0050	0.00083	mg/L		03/08/22 10:06	03/09/22 13:47	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/22 10:06	03/09/22 13:47	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/22 10:06	03/09/22 13:47	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/22 10:06	03/09/22 13:47	1
Sodium	5.2		0.50	0.18	mg/L		03/08/22 10:06	03/09/22 13:47	1
Potassium	3.0		0.50	0.16	mg/L		03/08/22 10:06	03/09/22 13:47	1
Iron	0.30		0.050	0.028	mg/L		03/08/22 10:06	03/09/22 13:47	1
Magnesium	2.1		0.50	0.050	mg/L		03/08/22 10:06	03/09/22 13:47	1
Manganese	0.13		0.0050	0.0013	mg/L		03/08/22 10:06	03/09/22 13:47	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/14/22 13:29	03/15/22 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	5.3		3.0	2.1	mg/L		03/05/22 09:00	03/05/22 13:47	1
Total Dissolved Solids	140		10	10	mg/L			03/05/22 15:33	1
Total Alkalinity as CaCO3 to pH 4.5	80	B	5.0	5.0	mg/L			03/08/22 16:23	1
Bicarbonate Alkalinity as CaCO3	80	B	5.0	5.0	mg/L			03/08/22 16:23	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.86				SU			03/01/22 14:37	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Client Sample ID: Dup-1

Lab Sample ID: 180-134568-5

Date Collected: 03/01/22 00:01

Matrix: Water

Date Received: 03/03/22 09:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.71	mg/L			03/05/22 22:10	1
Fluoride	<0.026		0.10	0.026	mg/L			03/05/22 22:10	1
Sulfate	<0.76		1.0	0.76	mg/L			03/05/22 22:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/08/22 10:06	03/09/22 13:51	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/22 10:06	03/09/22 13:51	1
Barium	0.014		0.010	0.0031	mg/L		03/08/22 10:06	03/09/22 13:51	1
Beryllium	<0.00027	^+	0.0025	0.00027	mg/L		03/08/22 10:06	03/09/22 13:51	1
Boron	<0.060		0.080	0.060	mg/L		03/08/22 10:06	03/09/22 13:51	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/22 10:06	03/09/22 13:51	1
Calcium	1.7		0.50	0.13	mg/L		03/08/22 10:06	03/09/22 13:51	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/22 10:06	03/09/22 13:51	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/22 10:06	03/09/22 13:51	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/08/22 10:06	03/09/22 13:51	1
Lithium	0.0013	J	0.0050	0.00083	mg/L		03/08/22 10:06	03/09/22 13:51	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/22 10:06	03/09/22 13:51	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/22 10:06	03/09/22 13:51	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/22 10:06	03/09/22 13:51	1
Sodium	2.7		0.50	0.18	mg/L		03/08/22 10:06	03/09/22 13:51	1
Potassium	1.3		0.50	0.16	mg/L		03/08/22 10:06	03/09/22 13:51	1
Iron	<0.028		0.050	0.028	mg/L		03/08/22 10:06	03/09/22 13:51	1
Magnesium	1.1		0.50	0.050	mg/L		03/08/22 10:06	03/09/22 13:51	1
Manganese	0.010		0.0050	0.0013	mg/L		03/08/22 10:06	03/09/22 13:51	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/14/22 13:29	03/15/22 13:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	5.0		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 15:16	1
Total Dissolved Solids	29		10	10	mg/L			03/05/22 15:33	1
Total Alkalinity as CaCO3 to pH 4.5	11		5.0	5.0	mg/L			03/09/22 17:51	1
Bicarbonate Alkalinity as CaCO3	11		5.0	5.0	mg/L			03/09/22 17:51	1

QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-390542/38
Matrix: Water
Analysis Batch: 390542

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			03/05/22 21:55	1
Fluoride	<0.026		0.10	0.026	mg/L			03/05/22 21:55	1
Sulfate	<0.76		1.0	0.76	mg/L			03/05/22 21:55	1

Lab Sample ID: MB 180-390542/7
Matrix: Water
Analysis Batch: 390542

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			03/05/22 14:17	1
Fluoride	<0.026		0.10	0.026	mg/L			03/05/22 14:17	1
Sulfate	<0.76		1.0	0.76	mg/L			03/05/22 14:17	1

Lab Sample ID: LCS 180-390542/37
Matrix: Water
Analysis Batch: 390542

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	49.9		mg/L		100	90 - 110
Fluoride	2.50	2.55		mg/L		102	90 - 110
Sulfate	50.0	50.4		mg/L		101	90 - 110

Lab Sample ID: LCS 180-390542/6
Matrix: Water
Analysis Batch: 390542

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	49.9		mg/L		100	90 - 110
Fluoride	2.50	2.55		mg/L		102	90 - 110
Sulfate	50.0	50.4		mg/L		101	90 - 110

Lab Sample ID: 180-134568-5 MS
Matrix: Water
Analysis Batch: 390542

Client Sample ID: Dup-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1.7		50.0	49.8		mg/L		96	90 - 110
Fluoride	<0.026		2.50	2.44		mg/L		98	90 - 110
Sulfate	<0.76		50.0	49.8		mg/L		100	90 - 110

Lab Sample ID: 180-134568-5 MSD
Matrix: Water
Analysis Batch: 390542

Client Sample ID: Dup-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	1.7		50.0	50.1		mg/L		97	90 - 110	1	20
Fluoride	<0.026		2.50	2.54		mg/L		102	90 - 110	4	20
Sulfate	<0.76		50.0	50.3		mg/L		101	90 - 110	1	20

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

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

Lab Sample ID: MB 180-390792/1-A
Matrix: Water
Analysis Batch: 391051

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 390792

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00051		0.0020	0.00051	mg/L		03/08/22 10:06	03/09/22 12:38	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/08/22 10:06	03/09/22 12:38	1
Barium	<0.0031		0.010	0.0031	mg/L		03/08/22 10:06	03/09/22 12:38	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/08/22 10:06	03/09/22 12:38	1
Boron	<0.060		0.080	0.060	mg/L		03/08/22 10:06	03/09/22 12:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/08/22 10:06	03/09/22 12:38	1
Calcium	<0.13		0.50	0.13	mg/L		03/08/22 10:06	03/09/22 12:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/08/22 10:06	03/09/22 12:38	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/08/22 10:06	03/09/22 12:38	1
Lead	0.000240	J	0.0010	0.00017	mg/L		03/08/22 10:06	03/09/22 12:38	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/08/22 10:06	03/09/22 12:38	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/08/22 10:06	03/09/22 12:38	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/08/22 10:06	03/09/22 12:38	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/08/22 10:06	03/09/22 12:38	1
Sodium	<0.18		0.50	0.18	mg/L		03/08/22 10:06	03/09/22 12:38	1
Potassium	<0.16		0.50	0.16	mg/L		03/08/22 10:06	03/09/22 12:38	1
Iron	<0.028		0.050	0.028	mg/L		03/08/22 10:06	03/09/22 12:38	1
Magnesium	<0.050		0.50	0.050	mg/L		03/08/22 10:06	03/09/22 12:38	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/08/22 10:06	03/09/22 12:38	1

Lab Sample ID: LCS 180-390792/2-A
Matrix: Water
Analysis Batch: 391051

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 390792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Antimony	0.250	0.256		mg/L		103	80 - 120
Arsenic	1.00	0.952		mg/L		95	80 - 120
Barium	1.00	1.00		mg/L		100	80 - 120
Beryllium	0.500	0.522		mg/L		104	80 - 120
Boron	1.25	1.20		mg/L		96	80 - 120
Cadmium	0.500	0.519		mg/L		104	80 - 120
Calcium	25.0	24.7		mg/L		99	80 - 120
Chromium	0.500	0.509		mg/L		102	80 - 120
Cobalt	0.500	0.487		mg/L		97	80 - 120
Lead	0.500	0.508		mg/L		102	80 - 120
Lithium	0.500	0.513		mg/L		103	80 - 120
Molybdenum	0.500	0.506		mg/L		101	80 - 120
Selenium	1.00	1.02		mg/L		102	80 - 120
Thallium	1.00	1.04		mg/L		104	80 - 120
Sodium	25.0	26.4		mg/L		106	80 - 120
Potassium	25.0	24.9		mg/L		100	80 - 120
Iron	5.00	5.24		mg/L		105	80 - 120
Magnesium	25.0	25.7		mg/L		103	80 - 120
Manganese	0.500	0.472		mg/L		94	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-391543/1-A
Matrix: Water
Analysis Batch: 391697

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 391543

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/14/22 13:29	03/15/22 13:05	1

Lab Sample ID: LCS 180-391543/2-A
Matrix: Water
Analysis Batch: 391697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 391543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00275		mg/L		110	80 - 120

Lab Sample ID: MB 180-391618/1-A
Matrix: Water
Analysis Batch: 391910

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 391618

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/15/22 08:36	03/16/22 14:24	1

Lab Sample ID: LCS 180-391618/2-A
Matrix: Water
Analysis Batch: 391910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 391618

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00270		mg/L		108	80 - 120

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 180-390502/1-A
Matrix: Water
Analysis Batch: 390541

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 390502

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/05/22 09:00	03/05/22 11:13	1

Lab Sample ID: LCS 180-390502/2-A
Matrix: Water
Analysis Batch: 390541

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 390502

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	14.5	15.3		mg/L		105	85 - 115

Lab Sample ID: 180-134568-1 MS
Matrix: Water
Analysis Batch: 390541

Client Sample ID: WGWA-3
Prep Type: Total/NA
Prep Batch: 390502

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	6.3		14.5	17.2		mg/L		75	75 - 125

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: 180-134568-1 MSD
Matrix: Water
Analysis Batch: 390541

Client Sample ID: WGWA-3
Prep Type: Total/NA
Prep Batch: 390502

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	6.3		14.5	18.6		mg/L		85	75 - 125	8	20

Lab Sample ID: MB 180-390812/1-A
Matrix: Water
Analysis Batch: 390865

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 390812

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/08/22 12:00	03/08/22 13:51	1

Lab Sample ID: LCS 180-390812/2-A
Matrix: Water
Analysis Batch: 390865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 390812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	14.4	15.3		mg/L		106	85 - 115

Lab Sample ID: 180-134564-1 MS
Matrix: Water
Analysis Batch: 390865

Client Sample ID: WGWA-1
Prep Type: Total/NA
Prep Batch: 390812

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	5.8		14.4	17.0		mg/L		77	75 - 125

Lab Sample ID: 180-134564-1 MSD
Matrix: Water
Analysis Batch: 390865

Client Sample ID: WGWA-1
Prep Type: Total/NA
Prep Batch: 390812

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	5.8		14.4	17.4		mg/L		80	75 - 125	2	20

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

Lab Sample ID: MB 180-390551/2
Matrix: Water
Analysis Batch: 390551

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			03/05/22 15:33	1

Lab Sample ID: LCS 180-390551/1
Matrix: Water
Analysis Batch: 390551

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	469	480		mg/L		102	85 - 115

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

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

Lab Sample ID: 180-134568-3 DU
Matrix: Water
Analysis Batch: 390551

Client Sample ID: WGWA-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	23		24.0		mg/L		4	10

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-390904/6
Matrix: Water
Analysis Batch: 390904

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	5.54		5.0	5.0	mg/L			03/08/22 15:48	1
Bicarbonate Alkalinity as CaCO3	5.54		5.0	5.0	mg/L			03/08/22 15:48	1

Lab Sample ID: LCS 180-390904/5
Matrix: Water
Analysis Batch: 390904

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	251		mg/L		95	90 - 110

Lab Sample ID: LLCS 180-390904/4
Matrix: Water
Analysis Batch: 390904

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	14.7		mg/L		92	75 - 125

Lab Sample ID: 180-134568-2 DU
Matrix: Water
Analysis Batch: 390904

Client Sample ID: WGWA-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3 to pH 4.5	64	B	63.2		mg/L		1	20
Bicarbonate Alkalinity as CaCO3	64	B	63.2		mg/L		1	20

Lab Sample ID: MB 180-391320/6
Matrix: Water
Analysis Batch: 391320

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			03/09/22 17:15	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/09/22 17:15	1

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: LCS 180-391320/5
Matrix: Water
Analysis Batch: 391320

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	240		mg/L		91	90 - 110

Lab Sample ID: LLCS 180-391320/4
Matrix: Water
Analysis Batch: 391320

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	14.1		mg/L		88	75 - 125

Lab Sample ID: MB 180-391369/30
Matrix: Water
Analysis Batch: 391369

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			03/11/22 22:03	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/11/22 22:03	1

Lab Sample ID: MB 180-391369/54
Matrix: Water
Analysis Batch: 391369

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			03/12/22 00:52	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/12/22 00:52	1

Lab Sample ID: LCS 180-391369/53
Matrix: Water
Analysis Batch: 391369

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	265	248		mg/L		94	90 - 110

Lab Sample ID: LLCS 180-391369/52
Matrix: Water
Analysis Batch: 391369

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	15.1		mg/L		95	75 - 125

Lab Sample ID: 180-134568-1 DU
Matrix: Water
Analysis Batch: 391369

Client Sample ID: WGWA-3
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	11		11.6		mg/L		6	20
Bicarbonate Alkalinity as CaCO3	11		11.6		mg/L		6	20

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QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

HPLC/IC

Analysis Batch: 390542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total/NA	Water	EPA 300.0 R2.1	
180-134564-2	EB-1	Total/NA	Water	EPA 300.0 R2.1	
180-134564-3	FB-1	Total/NA	Water	EPA 300.0 R2.1	
180-134564-4	WGWA-2	Total/NA	Water	EPA 300.0 R2.1	
180-134568-1	WGWA-3	Total/NA	Water	EPA 300.0 R2.1	
180-134568-2	WGWA-4	Total/NA	Water	EPA 300.0 R2.1	
180-134568-3	WGWA-5	Total/NA	Water	EPA 300.0 R2.1	
180-134568-4	WGWA-6	Total/NA	Water	EPA 300.0 R2.1	
180-134568-5	Dup-1	Total/NA	Water	EPA 300.0 R2.1	
MB 180-390542/38	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
MB 180-390542/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-390542/37	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-390542/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-134568-5 MS	Dup-1	Total/NA	Water	EPA 300.0 R2.1	
180-134568-5 MSD	Dup-1	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 390792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total Recoverable	Water	3005A	
180-134564-2	EB-1	Total Recoverable	Water	3005A	
180-134564-3	FB-1	Total Recoverable	Water	3005A	
180-134564-4	WGWA-2	Total Recoverable	Water	3005A	
180-134568-1	WGWA-3	Total Recoverable	Water	3005A	
180-134568-2	WGWA-4	Total Recoverable	Water	3005A	
180-134568-3	WGWA-5	Total Recoverable	Water	3005A	
180-134568-4	WGWA-6	Total Recoverable	Water	3005A	
180-134568-5	Dup-1	Total Recoverable	Water	3005A	
MB 180-390792/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-390792/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 391051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total Recoverable	Water	EPA 6020B	390792
180-134564-2	EB-1	Total Recoverable	Water	EPA 6020B	390792
180-134564-3	FB-1	Total Recoverable	Water	EPA 6020B	390792
180-134564-4	WGWA-2	Total Recoverable	Water	EPA 6020B	390792
180-134568-1	WGWA-3	Total Recoverable	Water	EPA 6020B	390792
180-134568-2	WGWA-4	Total Recoverable	Water	EPA 6020B	390792
180-134568-3	WGWA-5	Total Recoverable	Water	EPA 6020B	390792
180-134568-4	WGWA-6	Total Recoverable	Water	EPA 6020B	390792
180-134568-5	Dup-1	Total Recoverable	Water	EPA 6020B	390792
MB 180-390792/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	390792
LCS 180-390792/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	390792

Prep Batch: 391543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134568-4	WGWA-6	Total/NA	Water	7470A	
180-134568-5	Dup-1	Total/NA	Water	7470A	
MB 180-391543/1-A	Method Blank	Total/NA	Water	7470A	

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QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

Metals (Continued)

Prep Batch: 391543 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-391543/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 391618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total/NA	Water	7470A	
180-134564-2	EB-1	Total/NA	Water	7470A	
180-134564-3	FB-1	Total/NA	Water	7470A	
180-134564-4	WGWA-2	Total/NA	Water	7470A	
180-134568-1	WGWA-3	Total/NA	Water	7470A	
180-134568-2	WGWA-4	Total/NA	Water	7470A	
180-134568-3	WGWA-5	Total/NA	Water	7470A	
MB 180-391618/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-391618/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 391697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134568-4	WGWA-6	Total/NA	Water	EPA 7470A	391543
180-134568-5	Dup-1	Total/NA	Water	EPA 7470A	391543
MB 180-391543/1-A	Method Blank	Total/NA	Water	EPA 7470A	391543
LCS 180-391543/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	391543

Analysis Batch: 391910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total/NA	Water	EPA 7470A	391618
180-134564-2	EB-1	Total/NA	Water	EPA 7470A	391618
180-134564-3	FB-1	Total/NA	Water	EPA 7470A	391618
180-134564-4	WGWA-2	Total/NA	Water	EPA 7470A	391618
180-134568-1	WGWA-3	Total/NA	Water	EPA 7470A	391618
180-134568-2	WGWA-4	Total/NA	Water	EPA 7470A	391618
180-134568-3	WGWA-5	Total/NA	Water	EPA 7470A	391618
MB 180-391618/1-A	Method Blank	Total/NA	Water	EPA 7470A	391618
LCS 180-391618/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	391618

Analysis Batch: 393766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total Recoverable	Water	EPA 6020B	390792
180-134568-4	WGWA-6	Total Recoverable	Water	EPA 6020B	390792

General Chemistry

Prep Batch: 390502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134568-1	WGWA-3	Total/NA	Water	9030B	
180-134568-2	WGWA-4	Total/NA	Water	9030B	
180-134568-3	WGWA-5	Total/NA	Water	9030B	
180-134568-4	WGWA-6	Total/NA	Water	9030B	
MB 180-390502/1-A	Method Blank	Total/NA	Water	9030B	
LCS 180-390502/2-A	Lab Control Sample	Total/NA	Water	9030B	
180-134568-1 MS	WGWA-3	Total/NA	Water	9030B	
180-134568-1 MSD	WGWA-3	Total/NA	Water	9030B	

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

General Chemistry

Analysis Batch: 390541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134568-1	WGWA-3	Total/NA	Water	EPA 9034	390502
180-134568-2	WGWA-4	Total/NA	Water	EPA 9034	390502
180-134568-3	WGWA-5	Total/NA	Water	EPA 9034	390502
180-134568-4	WGWA-6	Total/NA	Water	EPA 9034	390502
MB 180-390502/1-A	Method Blank	Total/NA	Water	EPA 9034	390502
LCS 180-390502/2-A	Lab Control Sample	Total/NA	Water	EPA 9034	390502
180-134568-1 MS	WGWA-3	Total/NA	Water	EPA 9034	390502
180-134568-1 MSD	WGWA-3	Total/NA	Water	EPA 9034	390502

Analysis Batch: 390551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total/NA	Water	SM 2540C	
180-134564-2	EB-1	Total/NA	Water	SM 2540C	
180-134564-3	FB-1	Total/NA	Water	SM 2540C	
180-134564-4	WGWA-2	Total/NA	Water	SM 2540C	
180-134568-1	WGWA-3	Total/NA	Water	SM 2540C	
180-134568-2	WGWA-4	Total/NA	Water	SM 2540C	
180-134568-3	WGWA-5	Total/NA	Water	SM 2540C	
180-134568-4	WGWA-6	Total/NA	Water	SM 2540C	
180-134568-5	Dup-1	Total/NA	Water	SM 2540C	
MB 180-390551/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-390551/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-134568-3 DU	WGWA-5	Total/NA	Water	SM 2540C	

Prep Batch: 390812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total/NA	Water	9030B	
180-134564-2	EB-1	Total/NA	Water	9030B	
180-134564-3	FB-1	Total/NA	Water	9030B	
180-134564-4	WGWA-2	Total/NA	Water	9030B	
180-134568-5	Dup-1	Total/NA	Water	9030B	
MB 180-390812/1-A	Method Blank	Total/NA	Water	9030B	
LCS 180-390812/2-A	Lab Control Sample	Total/NA	Water	9030B	
180-134564-1 MS	WGWA-1	Total/NA	Water	9030B	
180-134564-1 MSD	WGWA-1	Total/NA	Water	9030B	

Analysis Batch: 390865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total/NA	Water	EPA 9034	390812
180-134564-2	EB-1	Total/NA	Water	EPA 9034	390812
180-134564-3	FB-1	Total/NA	Water	EPA 9034	390812
180-134564-4	WGWA-2	Total/NA	Water	EPA 9034	390812
180-134568-5	Dup-1	Total/NA	Water	EPA 9034	390812
MB 180-390812/1-A	Method Blank	Total/NA	Water	EPA 9034	390812
LCS 180-390812/2-A	Lab Control Sample	Total/NA	Water	EPA 9034	390812
180-134564-1 MS	WGWA-1	Total/NA	Water	EPA 9034	390812
180-134564-1 MSD	WGWA-1	Total/NA	Water	EPA 9034	390812

Analysis Batch: 390904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-2	EB-1	Total/NA	Water	SM2320 B	

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-1

General Chemistry (Continued)

Analysis Batch: 390904 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-3	FB-1	Total/NA	Water	SM2320 B	
180-134564-4	WGWA-2	Total/NA	Water	SM2320 B	
180-134568-2	WGWA-4	Total/NA	Water	SM2320 B	
180-134568-4	WGWA-6	Total/NA	Water	SM2320 B	
MB 180-390904/6	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-390904/5	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-390904/4	Lab Control Sample	Total/NA	Water	SM2320 B	
180-134568-2 DU	WGWA-4	Total/NA	Water	SM2320 B	

Analysis Batch: 391320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total/NA	Water	SM2320 B	
180-134568-3	WGWA-5	Total/NA	Water	SM2320 B	
180-134568-5	Dup-1	Total/NA	Water	SM2320 B	
MB 180-391320/6	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-391320/5	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-391320/4	Lab Control Sample	Total/NA	Water	SM2320 B	

Analysis Batch: 391369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134568-1	WGWA-3	Total/NA	Water	SM2320 B	
MB 180-391369/30	Method Blank	Total/NA	Water	SM2320 B	
MB 180-391369/54	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-391369/53	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-391369/52	Lab Control Sample	Total/NA	Water	SM2320 B	
180-134568-1 DU	WGWA-3	Total/NA	Water	SM2320 B	

Field Service / Mobile Lab

Analysis Batch: 391140

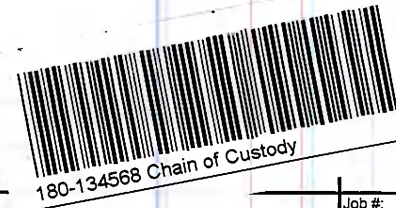
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total/NA	Water	Field Sampling	
180-134564-4	WGWA-2	Total/NA	Water	Field Sampling	
180-134568-1	WGWA-3	Total/NA	Water	Field Sampling	
180-134568-2	WGWA-4	Total/NA	Water	Field Sampling	
180-134568-3	WGWA-5	Total/NA	Water	Field Sampling	
180-134568-4	WGWA-6	Total/NA	Water	Field Sampling	

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

Chain of Custody Record

S Environment Testing
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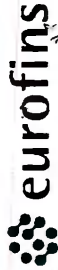
Client Information		Sampler: <u>T. Johnson</u>		Lab PM: <u>Brown, Shali</u>											
Client Contact SCS Contacts		Phone: <u>770-594-5498</u>		E-Mail: <u>shali.brown@eurofinset.com</u>											
Company: GA Power		Analys. Requested				Job #:									
Address: 241 Ralph McGill Blvd SE		Due Date Requested:		<table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Perform MS/MSD (Yes or No)</td> <td>App III Metals: B, Ca</td> <td>Cl, F, SO & TDS (EPA 300 & SM 2540C)</td> <td>App IV Metals (EPA 60207/470): Sb,As,Ba,Bi,Cd,Cr,Cu,Pb,LI,Hg,Mo,Se,Te</td> <td>Radium 226 & 228 (SW-846 9316/9320)</td> <td>Major Ions - Bicarbonate Alkalinity, Total Alkalinity</td> <td>Major Ions - Sulfide</td> <td>Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium</td> <td>Total Number of Containers</td> </tr> </table>		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	App III Metals: B, Ca	Cl, F, SO & TDS (EPA 300 & SM 2540C)	App IV Metals (EPA 60207/470): Sb,As,Ba,Bi,Cd,Cr,Cu,Pb,LI,Hg,Mo,Se,Te	Radium 226 & 228 (SW-846 9316/9320)	Major Ions - Bicarbonate Alkalinity, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of Containers
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	App III Metals: B, Ca	Cl, F, SO & TDS (EPA 300 & SM 2540C)			App IV Metals (EPA 60207/470): Sb,As,Ba,Bi,Cd,Cr,Cu,Pb,LI,Hg,Mo,Se,Te	Radium 226 & 228 (SW-846 9316/9320)	Major Ions - Bicarbonate Alkalinity, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of Containers				
City: Atlanta		TAT Requested (days):													
State, Zip: GA, 30308		PO #:													
Phone: 404-506-7116(Tel)		WO #:													
Email: SCS Contacts		Project #: 18019922													
Project Name: CCR - Plant Wansley Ash Pond		SSOW#:		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)											
Site:		Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed													
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	pH=								
<u>WGWA-3</u>		<u>3/1/22</u>	<u>1543</u>	<u>G</u>	<u>Water</u>	<u>N N</u>	<u>5.59</u>								
<u>WGWA-4</u>		<u>2/28/22</u>	<u>1628</u>	<u>G</u>	<u>Water</u>	<u>N N</u>	<u>7.14</u>								
<u>WGWA-5</u>		<u>3/1/22</u>	<u>1307</u>	<u>G</u>	<u>Water</u>	<u>N N</u>	<u>5.47</u>								
<u>WGWA-6</u>		<u>3/1/22</u>	<u>1437</u>	<u>G</u>	<u>Water</u>	<u>N N</u>	<u>7.86</u>								
<u>Dvp-1</u>		<u>3/1/22</u>	<u>—</u>	<u>G</u>	<u>Water</u>	<u>N N</u>	<u>pH=</u>								
				<u>G</u>	<u>Water</u>		<u>pH=</u>								
				<u>G</u>	<u>Water</u>		<u>pH=</u>								
				<u>G</u>	<u>Water</u>		<u>pH=</u>								
				<u>G</u>	<u>Water</u>		<u>pH=</u>								
				<u>G</u>	<u>Water</u>		<u>pH=</u>								
				<u>G</u>	<u>Water</u>		<u>pH=</u>								
				<u>G</u>	<u>Water</u>		<u>pH=</u>								
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)													
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months													
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:													
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:											
Relinquished by: <u>[Signature]</u>		Date/Time: <u>3-2-22/10:05</u>	Company: <u>Acc</u>	Received by: <u>[Signature]</u>	Date/Time: <u>3-2-22 16:11</u>	Company:									
Relinquished by: <u>Michael Merkle</u>		Date/Time: <u>3-2-22 16:11</u>	Company:	Received by:	Date/Time:	Company:									
Relinquished by:		Date/Time:	Company:	Received by:	Date/Time:	Company:									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:											

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180-134564 Waybill

Part # 159469-434 MTW EXP 09/22



Environment Testing
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ORIGIN ID: IYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NM
SUITE 300
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 02MAR22
ACTWT: 61.65 LB
CAD: 859116/CAFE3510
BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 983-7068 REF:
THU1 P01 DEPT:

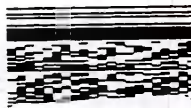


Uncorrected temp
Thermometer ID

3.9 °C
16
Mo

CF Initials

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

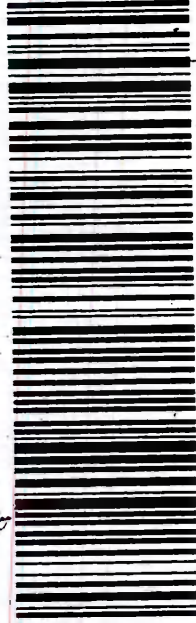


THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

1 of 3
TRK# 5220 7116 5983
0201
MASTER

NA AGCA

15238
PA-US
PIT





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Part # 159469-434 MTW EXP 09/22



Environment Testing
TestAmerica

RT 98
FZ
1 10:30
A 5994
03.03

ORIGIN ID: LIYA (678) 986-99
GEORGE TAYLOR
EUROFINS TESTING AMERICA
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

U2MAR22
WEIGHT: 51.65 LB
CAD: 859116/CAFE510

BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: PO:



DEPT:

Thermometer ID

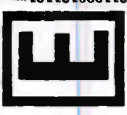
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Initials

PT-VL-SR-001 effective 1/18/18

Thermometer ID

FedEx Express



2 of 3
MPS# 5220 7116 5994
0263

THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

0201

Mstr# 5220 7116 5983

NA AGCA

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PIT





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Part# 159469-434 MTW EXP 09/22



Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 02MAR22
ACTWT: 61.65 LB
CAD: 859116/CAFE9510

BILL THIRD PARTY

TO SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

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REF:

DEPT:



Uncorrected temp
Thermometer ID

CF 0 Initials Mes

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Express



J211020121101AN

3 of 3

THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

MPS# 5220 7116 6008

Mstr# 5220 7116 5983

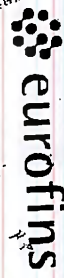
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Part # 159469-434 MTW EXP 09/22

ORIGIN ID: LTYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA RTL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 02MAR22
ACTWT: 61.65 LB
CAD: 859116/CFE3510
BILL THIRD PARTY

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDD PARK
PITTSBURGH PA 15238

REF: (412) 983-7068
PT-MI-SR-001 effective 11/01/18

Uncorrected temp
Thermometer ID

39 °C
Tc

CF Initials MB

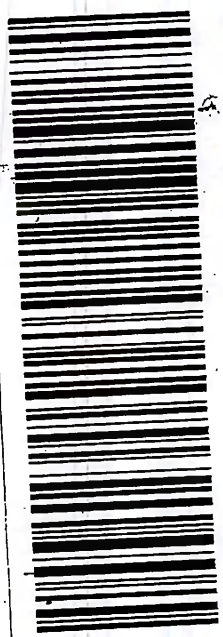


1 of 3
TRK# 5220 7116 5983
MASTER

THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

NA AGCA

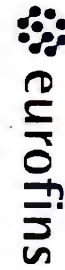
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180-134568 Waybill



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ORIGIN ID: L1YA (679) 988-994
GEORGE TAYLOR
EUROFINS TESTING AMERICA
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 02MAR22
WT: 61.85 LB
CPO: 859116CAREES10
BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 863-7058 REF: DEPT1

Thermometer ID: 16

CF D Initials AS

PT-W-SR-001 effective 1/8/18

AR1011210201127

MPS# 2 of 3
0263 5220 7116 5994
Mstr# 5220 7116 5983

THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

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2
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4
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13

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ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NM
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
SHIP DATE: 02MAR22
ACTWT: 61.65 LB
CRD: 859116/CAFES510

BILL THIRD PARTY

TO **SAMPLE RECEIVING**
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 983-7068
REF: 412
PT: 1

DEPT:



Uncorrected temp

Thermometer ID

CFE 0

Initials

Mes

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



4A101121020121

3 of 3
MPS# 5220 7116 6008
02631
Mstr# 5220 7116 5983

THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

NA AGCA

15238
PA-US
PIT



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134564-1

Login Number: 134564

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: 180-134564-1

Login Number: 134568

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

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

Laboratory Job ID: 180-134564-2

Client Project/Site: Wansley Ash Pond

Sampling Event: Wansley Ash Pond Initial Scan Event

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
4/5/2022 5:34:47 PM

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

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

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

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Job ID: 180-134564-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-134564-2

Receipt

The samples were received on 3/3/2022 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 2.7°C, 3.7°C and 3.9°C

Gas Flow Proportional Counter

Method 9315_Ra226: Radium 226 batch 554072 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. WGWA-1 (180-134564-1), EB-1 (180-134564-2), FB-1 (180-134564-3), WGWA-2 (180-134564-4), WGWA-3 (180-134568-1), WGWA-4 (180-134568-2), WGWA-5 (180-134568-3), WGWA-6 (180-134568-4), Dup-1 (180-134568-5), (LCS 160-554072/1-A), (MB 160-554072/18-A), (500-213202-D-1-A) and (500-213202-C-1-A DU)

Method 9320_Ra228: Radium 228 batch 554704 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. WGWA-1 (180-134564-1), EB-1 (180-134564-2), FB-1 (180-134564-3), WGWA-2 (180-134564-4), WGWA-3 (180-134568-1), WGWA-4 (180-134568-2), WGWA-5 (180-134568-3), WGWA-6 (180-134568-4), Dup-1 (180-134568-5), (LCS 160-554074/1-A), (MB 160-554074/18-A), (500-213202-D-1-B) and (500-213202-C-1-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: Wansley Ash Pond

Job ID: 180-134564-2

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: Wansley Ash Pond

Job ID: 180-134564-2

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-05-22
ANAB	Dept. of Energy	L2305.01	04-05-22
ANAB	ISO/IEC 17025	L2305	04-05-22
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	07-01-22
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Sample Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-134564-1	WGWA-1	Water	03/01/22 12:11	03/03/22 09:30
180-134564-2	EB-1	Water	03/01/22 13:00	03/03/22 09:30
180-134564-3	FB-1	Water	03/01/22 14:50	03/03/22 09:30
180-134564-4	WGWA-2	Water	03/01/22 15:10	03/03/22 09:30
180-134568-1	WGWA-3	Water	03/01/22 15:43	03/03/22 09:30
180-134568-2	WGWA-4	Water	02/28/22 16:28	03/03/22 09:30
180-134568-3	WGWA-5	Water	03/01/22 13:07	03/03/22 09:30
180-134568-4	WGWA-6	Water	03/01/22 14:37	03/03/22 09:30
180-134568-5	Dup-1	Water	03/01/22 00:01	03/03/22 09:30

- 1
- 2
- 3
- 4
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- 12
- 13

Method Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

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

Protocol References:

None = None

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

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

Laboratory References:

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

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: WGWA-1

Lab Sample ID: 180-134564-1

Date Collected: 03/01/22 12:11

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.39 mL	1.0 g	554072	03/08/22 09:40	LPS	TAL SL
Total/NA	Analysis	9315		1			557860	03/30/22 10:46	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.39 mL	1.0 g	554074	03/08/22 10:07	LPS	TAL SL
Total/NA	Analysis	9320		1			557757	03/29/22 14:08	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			558296	04/01/22 17:15	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-1

Lab Sample ID: 180-134564-2

Date Collected: 03/01/22 13:00

Matrix: Water

Date Received: 03/03/22 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			999.91 mL	1.0 g	554072	03/08/22 09:40	LPS	TAL SL
Total/NA	Analysis	9315		1			557860	03/30/22 10:46	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.91 mL	1.0 g	554074	03/08/22 10:07	LPS	TAL SL
Total/NA	Analysis	9320		1			557757	03/29/22 14:08	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			558296	04/01/22 17:15	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-1

Lab Sample ID: 180-134564-3

Date Collected: 03/01/22 14:50

Matrix: Water

Date Received: 03/03/22 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			998.83 mL	1.0 g	554072	03/08/22 09:40	LPS	TAL SL
Total/NA	Analysis	9315		1			557860	03/30/22 10:47	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			998.83 mL	1.0 g	554074	03/08/22 10:07	LPS	TAL SL
Total/NA	Analysis	9320		1			557757	03/29/22 14:09	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			558296	04/01/22 17:15	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-2

Lab Sample ID: 180-134564-4

Date Collected: 03/01/22 15:10

Matrix: Water

Date Received: 03/03/22 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			748.29 mL	1.0 g	554072	03/08/22 09:40	LPS	TAL SL
Total/NA	Analysis	9315		1			557860	03/30/22 10:47	FLC	TAL SL
Instrument ID: GFPCBLUE										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: WGWA-2

Lab Sample ID: 180-134564-4

Date Collected: 03/01/22 15:10

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			748.29 mL	1.0 g	554074	03/08/22 10:07	LPS	TAL SL
Total/NA	Analysis	9320		1			557757	03/29/22 14:09	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			558296	04/01/22 17:15	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-3

Lab Sample ID: 180-134568-1

Date Collected: 03/01/22 15:43

Matrix: Water

Date Received: 03/03/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.99 mL	1.0 g	554072	03/08/22 09:40	LPS	TAL SL
Total/NA	Analysis	9315		1			557860	03/30/22 10:47	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1000.99 mL	1.0 g	554074	03/08/22 10:07	LPS	TAL SL
Total/NA	Analysis	9320		1			557757	03/29/22 14:09	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			558296	04/01/22 17:15	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-4

Lab Sample ID: 180-134568-2

Date Collected: 02/28/22 16:28

Matrix: Water

Date Received: 03/03/22 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			996.88 mL	1.0 g	554072	03/08/22 09:40	LPS	TAL SL
Total/NA	Analysis	9315		1			557860	03/30/22 10:47	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			996.88 mL	1.0 g	554074	03/08/22 10:07	LPS	TAL SL
Total/NA	Analysis	9320		1			557757	03/29/22 14:09	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			558296	04/01/22 17:15	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWA-5

Lab Sample ID: 180-134568-3

Date Collected: 03/01/22 13:07

Matrix: Water

Date Received: 03/03/22 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			746.48 mL	1.0 g	554072	03/08/22 09:40	LPS	TAL SL
Total/NA	Analysis	9315		1			557860	03/30/22 10:47	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			746.48 mL	1.0 g	554074	03/08/22 10:07	LPS	TAL SL
Total/NA	Analysis	9320		1			557757	03/29/22 14:09	FLC	TAL SL
Instrument ID: GFPCORANGE										

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: WGWA-5

Lab Sample ID: 180-134568-3

Date Collected: 03/01/22 13:07

Matrix: Water

Date Received: 03/03/22 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			558296	04/01/22 17:15	EMH	TAL SL

Client Sample ID: WGWA-6

Lab Sample ID: 180-134568-4

Date Collected: 03/01/22 14:37

Matrix: Water

Date Received: 03/03/22 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			999.48 mL	1.0 g	554072	03/08/22 09:40	LPS	TAL SL
Total/NA	Analysis	9315		1			557860	03/30/22 10:47	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			999.48 mL	1.0 g	554074	03/08/22 10:07	LPS	TAL SL
Total/NA	Analysis	9320		1			557757	03/29/22 14:09	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			558296	04/01/22 17:15	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: Dup-1

Lab Sample ID: 180-134568-5

Date Collected: 03/01/22 00:01

Matrix: Water

Date Received: 03/03/22 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			1001.86 mL	1.0 g	554072	03/08/22 09:40	LPS	TAL SL
Total/NA	Analysis	9315		1			557860	03/30/22 10:48	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1001.86 mL	1.0 g	554074	03/08/22 10:07	LPS	TAL SL
Total/NA	Analysis	9320		1			557757	03/29/22 14:10	FLC	TAL SL
Instrument ID: GFPCORANGE										
Total/NA	Analysis	Ra226_Ra228		1			558296	04/01/22 17:15	EMH	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

LPS = Lauren Szostak

Batch Type: Analysis

EMH = Elizabeth Hoerchler

FLC = Fernando Cruz

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: WGWA-1

Lab Sample ID: 180-134564-1

Date Collected: 03/01/22 12:11

Matrix: Water

Date Received: 03/03/22 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0445	U	0.168	0.168	1.00	0.345	pCi/L	03/08/22 09:40	03/30/22 10:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					03/08/22 09:40	03/30/22 10:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00473	U	0.192	0.192	1.00	0.350	pCi/L	03/08/22 10:07	03/29/22 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					03/08/22 10:07	03/29/22 14:08	1
Y Carrier	82.2		40 - 110					03/08/22 10:07	03/29/22 14:08	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0398	U	0.255	0.255	2.00	0.350	pCi/L		04/01/22 17:15	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: EB-1

Lab Sample ID: 180-134564-2

Date Collected: 03/01/22 13:00

Matrix: Water

Date Received: 03/03/22 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0575	U	0.181	0.181	1.00	0.374	pCi/L	03/08/22 09:40	03/30/22 10:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					03/08/22 09:40	03/30/22 10:46	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.213	U	0.247	0.248	1.00	0.407	pCi/L	03/08/22 10:07	03/29/22 14:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					03/08/22 10:07	03/29/22 14:08	1
Y Carrier	85.6		40 - 110					03/08/22 10:07	03/29/22 14:08	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.155	U	0.306	0.307	2.00	0.407	pCi/L		04/01/22 17:15	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: FB-1

Lab Sample ID: 180-134564-3

Date Collected: 03/01/22 14:50

Matrix: Water

Date Received: 03/03/22 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0286	U	0.129	0.129	1.00	0.253	pCi/L	03/08/22 09:40	03/30/22 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					03/08/22 09:40	03/30/22 10:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0457	U	0.220	0.220	1.00	0.406	pCi/L	03/08/22 10:07	03/29/22 14:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		40 - 110					03/08/22 10:07	03/29/22 14:09	1
Y Carrier	80.7		40 - 110					03/08/22 10:07	03/29/22 14:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0171	U	0.255	0.255	2.00	0.406	pCi/L		04/01/22 17:15	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: WGWA-2

Lab Sample ID: 180-134564-4

Date Collected: 03/01/22 15:10

Matrix: Water

Date Received: 03/03/22 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0441	U	0.259	0.259	1.00	0.525	pCi/L	03/08/22 09:40	03/30/22 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					03/08/22 09:40	03/30/22 10:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0966	U	0.285	0.285	1.00	0.542	pCi/L	03/08/22 10:07	03/29/22 14:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					03/08/22 10:07	03/29/22 14:09	1
Y Carrier	80.4		40 - 110					03/08/22 10:07	03/29/22 14:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.141	U	0.385	0.385	2.00	0.542	pCi/L		04/01/22 17:15	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: WGWA-3

Lab Sample ID: 180-134568-1

Date Collected: 03/01/22 15:43

Matrix: Water

Date Received: 03/03/22 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0623	U	0.129	0.129	1.00	0.295	pCi/L	03/08/22 09:40	03/30/22 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					03/08/22 09:40	03/30/22 10:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.300	U	0.244	0.246	1.00	0.385	pCi/L	03/08/22 10:07	03/29/22 14:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					03/08/22 10:07	03/29/22 14:09	1
Y Carrier	82.6		40 - 110					03/08/22 10:07	03/29/22 14:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.238	U	0.276	0.278	2.00	0.385	pCi/L		04/01/22 17:15	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: WGWA-4

Lab Sample ID: 180-134568-2

Date Collected: 02/28/22 16:28

Matrix: Water

Date Received: 03/03/22 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.340		0.221	0.223	1.00	0.302	pCi/L	03/08/22 09:40	03/30/22 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					03/08/22 09:40	03/30/22 10:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.962		0.303	0.315	1.00	0.388	pCi/L	03/08/22 10:07	03/29/22 14:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					03/08/22 10:07	03/29/22 14:09	1
Y Carrier	86.0		40 - 110					03/08/22 10:07	03/29/22 14:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.30		0.375	0.386	2.00	0.388	pCi/L		04/01/22 17:15	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: WGWA-5

Lab Sample ID: 180-134568-3

Date Collected: 03/01/22 13:07

Matrix: Water

Date Received: 03/03/22 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.149	U	0.236	0.237	1.00	0.407	pCi/L	03/08/22 09:40	03/30/22 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					03/08/22 09:40	03/30/22 10:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.279	U	0.311	0.312	1.00	0.510	pCi/L	03/08/22 10:07	03/29/22 14:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					03/08/22 10:07	03/29/22 14:09	1
Y Carrier	81.9		40 - 110					03/08/22 10:07	03/29/22 14:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.428	U	0.390	0.392	2.00	0.510	pCi/L		04/01/22 17:15	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: WGWA-6

Lab Sample ID: 180-134568-4

Date Collected: 03/01/22 14:37

Matrix: Water

Date Received: 03/03/22 09:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.88		0.569	0.668	1.00	0.292	pCi/L	03/08/22 09:40	03/30/22 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		40 - 110					03/08/22 09:40	03/30/22 10:47	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.98		0.609	0.821	1.00	0.451	pCi/L	03/08/22 10:07	03/29/22 14:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		40 - 110					03/08/22 10:07	03/29/22 14:09	1
Y Carrier	85.2		40 - 110					03/08/22 10:07	03/29/22 14:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	9.86		0.833	1.06	2.00	0.451	pCi/L		04/01/22 17:15	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Client Sample ID: Dup-1
Date Collected: 03/01/22 00:01
Date Received: 03/03/22 09:30

Lab Sample ID: 180-134568-5
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0303	U	0.158	0.158	1.00	0.305	pCi/L	03/08/22 09:40	03/30/22 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					03/08/22 09:40	03/30/22 10:48	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0512	U	0.295	0.295	1.00	0.516	pCi/L	03/08/22 10:07	03/29/22 14:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					03/08/22 10:07	03/29/22 14:10	1
Y Carrier	82.2		40 - 110					03/08/22 10:07	03/29/22 14:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0815	U	0.335	0.335	2.00	0.516	pCi/L		04/01/22 17:15	1

QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-554072/18-A
Matrix: Water
Analysis Batch: 557860

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 554072

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.2469	U	0.187	0.188	1.00	0.272	pCi/L	03/08/22 09:40	03/30/22 12:39	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	91.6		40 - 110			03/08/22 09:40	03/30/22 12:39	1		

Lab Sample ID: LCS 160-554072/1-A
Matrix: Water
Analysis Batch: 557860

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 554072

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.18		1.25	1.00	0.293	pCi/L	90	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	95.6		40 - 110						

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-554074/18-A
Matrix: Water
Analysis Batch: 557757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 554074

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1819	U	0.266	0.267	1.00	0.445	pCi/L	03/08/22 10:07	03/29/22 14:11	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	91.6		40 - 110			03/08/22 10:07	03/29/22 14:11	1		
Y Carrier	84.5		40 - 110			03/08/22 10:07	03/29/22 14:11	1		

Lab Sample ID: LCS 160-554074/1-A
Matrix: Water
Analysis Batch: 557757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 554074

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.75	8.723		1.03	1.00	0.367	pCi/L	100	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	95.6		40 - 110						
Y Carrier	85.2		40 - 110						

QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134564-2

Rad

Prep Batch: 554072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total/NA	Water	PrecSep-21	
180-134564-2	EB-1	Total/NA	Water	PrecSep-21	
180-134564-3	FB-1	Total/NA	Water	PrecSep-21	
180-134564-4	WGWA-2	Total/NA	Water	PrecSep-21	
180-134568-1	WGWA-3	Total/NA	Water	PrecSep-21	
180-134568-2	WGWA-4	Total/NA	Water	PrecSep-21	
180-134568-3	WGWA-5	Total/NA	Water	PrecSep-21	
180-134568-4	WGWA-6	Total/NA	Water	PrecSep-21	
180-134568-5	Dup-1	Total/NA	Water	PrecSep-21	
MB 160-554072/18-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-554072/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

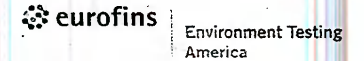
Prep Batch: 554074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134564-1	WGWA-1	Total/NA	Water	PrecSep_0	
180-134564-2	EB-1	Total/NA	Water	PrecSep_0	
180-134564-3	FB-1	Total/NA	Water	PrecSep_0	
180-134564-4	WGWA-2	Total/NA	Water	PrecSep_0	
180-134568-1	WGWA-3	Total/NA	Water	PrecSep_0	
180-134568-2	WGWA-4	Total/NA	Water	PrecSep_0	
180-134568-3	WGWA-5	Total/NA	Water	PrecSep_0	
180-134568-4	WGWA-6	Total/NA	Water	PrecSep_0	
180-134568-5	Dup-1	Total/NA	Water	PrecSep_0	
MB 160-554074/18-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-554074/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

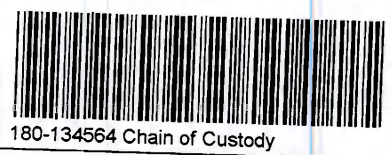
Eurofins TestAmerica, Pittsburgh

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

Chain of Custody Record



Client Information		Sampler: <u>J. Benisford</u>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:			
Client Contact: SCS Contacts		Phone: <u>770-594-5978</u>		E-Mail: <u>shali.brown@eurofinset.com</u>				Page:			
Company: GA Power				Analysis Requested				Job #:			
Address: 241 Ralph McGill Blvd SE		Due Date Requested:		Field Filtered Sample (Yes or No) Perform (MS) / MSD (Yes or No) App III Metals: B, Ca Cl, F, SO & TDS (EPA 300 & SM 2640C) App IV Metals (EPA 60207/476): Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Ti Radium 226 & 228 (SW-846 9316/9920) Major Ions - Bicarbonate Alkalinity, Total Alkalinity Major Ions - Sulfide Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium		Total Number of containers		Preservation Codes:			
City: Atlanta		TAT Requested (days):						A - HCL		M - Hexane	
State, Zip: GA, 30308		PO #:						B - NaOH		N - None	
Phone: 404-506-7116(Tel)		WO #:						C - Zn Acetate		O - AsNaO2	
Email: SCS Contacts		Project #:						D - Nitric Acid		P - Na2O4S	
Project Name: CCR - Plant Wansley Ash Pond		SSOW#:						E - NaHSO4		Q - Na2SO3	
Site:								F - MeOH		R - Na2S2O3	
				G - Amchlor		S - H2SO4					
				H - Ascorbic Acid		T - TSP Dodecahydrate					
				I - Ice		U - Acetone					
				J - DI Water		V - MCAA					
				K - EDTA		W - pH 4-5					
				L - EDA		Z - other (specify)					
						Other:					
						Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed					
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)			
						Preservation Code:					
<u>W6WA-1</u>		<u>3/1/22</u>		<u>1211</u>		<u>G</u>		<u>Water</u>			
<u>EB-1</u>		<u>3/1/22</u>		<u>1300</u>		<u>G</u>		<u>Water</u>			
<u>FB-1</u>		<u>3/1/22</u>		<u>1450</u>		<u>G</u>		<u>Water</u>			
<u>W6WA-2</u>		<u>3/1/22</u>		<u>1510</u>		<u>G</u>		<u>Water</u>			
						<u>G</u>		<u>Water</u>			
						<u>G</u>		<u>Water</u>			
						<u>G</u>		<u>Water</u>			
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						<u>G</u>		<u>Water</u>			
						<u>G</u>		<u>Water</u>			



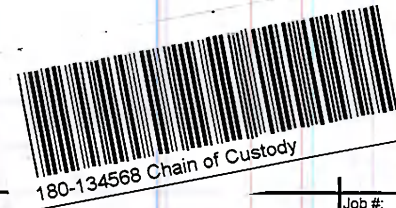
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
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Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>3-7-22/1605</u>		Company: <u>ACC</u>		Received by: <u>[Signature]</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>3-2-22 16:11</u>		Company: _____		Date/Time: <u>3-2-22 16:11</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: _____		Company: _____		Date/Time: <u>3-3-22 9:30</u>	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Eurofins TestAmerica, Pittsburgh

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

Chain of Custody Record

S Environment Testing
 America



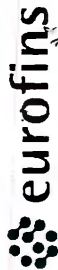
Client Information		Sampler: <u>T. Johnson</u>		Lab PM: <u>Brown, Shali</u>																																																																																																							
Client Contact: SCS Contacts		Phone: <u>770-594-5498</u>		E-Mail: <u>shali.brown@eurofinset.com</u>																																																																																																							
Company: GA Power		Analys. Requested				Job #:																																																																																																					
Address: 241 Ralph McGill Blvd SE						Due Date Requested:		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:																																																																																																			
City: Atlanta		TAT Requested (days):																																																																																																									
State, Zip: GA, 30308		PO #:																																																																																																									
Phone: 404-506-7116(Tel)		WO #:																																																																																																									
Email: SCS Contacts		Project #: 18019922																																																																																																									
Project Name: CCR - Plant Wansley Ash Pond		SSOW#:		Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed																																																																																																							
Site:		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>App III Metals: B, Ca</th> <th>Cl, F, SO & TDS (EPA 300 & SM 2540C)</th> <th>App IV Metals (EPA 60207/470): Sb,As,Ba,Bi,Cd,Cr,Cu,Pb,LI,Hg,Mo,Se,Ti</th> <th>Radium 226 & 228 (SW-846 9316/9320)</th> <th>Major Ions - Bicarbonate Alkalinity, Total Alkalinity</th> <th>Major Ions - Sulfide</th> <th>Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium</th> <th>Total Number of Containers</th> </tr> </thead> <tbody> <tr> <td colspan="10" style="text-align: center;">Preservation Code:</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table>				Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	App III Metals: B, Ca	Cl, F, SO & TDS (EPA 300 & SM 2540C)	App IV Metals (EPA 60207/470): Sb,As,Ba,Bi,Cd,Cr,Cu,Pb,LI,Hg,Mo,Se,Ti	Radium 226 & 228 (SW-846 9316/9320)	Major Ions - Bicarbonate Alkalinity, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of Containers	Preservation Code:																																																																																											
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Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		pH=																																																																																																	
<u>WGWA-3</u>		<u>3/1/22</u>		<u>1543</u>		<u>G</u>		<u>Water</u>		<u>5.59</u>																																																																																																	
<u>WGWA-4</u>		<u>2/28/22</u>		<u>1628</u>		<u>G</u>		<u>Water</u>		<u>7.14</u>																																																																																																	
<u>WGWA-5</u>		<u>3/1/22</u>		<u>1307</u>		<u>G</u>		<u>Water</u>		<u>5.47</u>																																																																																																	
<u>WGWA-6</u>		<u>3/1/22</u>		<u>1437</u>		<u>G</u>		<u>Water</u>		<u>7.86</u>																																																																																																	
<u>Dvp-1</u>		<u>3/1/22</u>		<u>—</u>		<u>G</u>		<u>Water</u>		<u>pH=</u>																																																																																																	
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Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																																																																																																					
Deliverable Requested: I, II, III, IV, Other (specify)						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																																																																																					
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:																																																																																																					
Relinquished by: <u>[Signature]</u>		Date/Time: <u>3-2-22/10:05</u>		Company: <u>Acc</u>		Received by: <u>[Signature]</u>		Date/Time: <u>3-2-22 16:11</u>		Company:																																																																																																	
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Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:																																																																																																					

Do not lift using this tag.



180-134564 Waybill

Part # 159469-434 MTW EXP 09/22



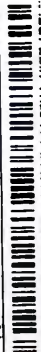
Environment Testing
TestAmerica

ORIGIN ID: IYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NM
SUITE 300
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 02MAR22
ACTWT: 61.65 LB
CAD: 859116/CAFE3510
BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 983-7068 REF:
THU1
P01



Uncorrected temp 3.9 °C
Thermometer ID 16

CF 0 Initials MB

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

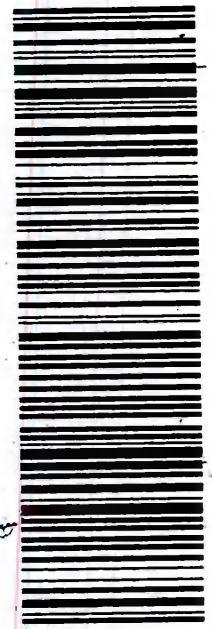


THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

1 of 3
TRK# 5220 7116 5983
0201
MASTER

NA AGCA

15238
PA-US
PIT





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Part # 159469-434 MTW EXP 09/22



Environment Testing
TestAmerica

RT 98
FZ
1 10:30
A 5994
03.03

ORIGIN ID: LIYA (678) 986-99
GEORGE TAYLOR
EUROFINS TESTING AMERICA
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

U2MAR22
NET WT: 51.65 LB
CAD: 859116/CAFE510

BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: 0263



Thermometer ID

CF [Signature] Initials [Signature]

PT-VL-SR-001 effective 1/18/18

FedEx Express



2 of 3
MPS# 5220 7116 5994
Mstr# 5220 7116 5983

THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

0201

NA AGCA

15238
PA-US
PIT



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- 12
- 13



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Part# 159469-434 MTW EXP 09/22



Environment Testing
TestAmerica

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 02MAR22
ACTWGT: 61.65 LB
CAD: 859116/CAFE9510

BILL THIRD PARTY

TO SAMPLE RECEIVING

EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 983-7058
THU: 11/18/18
PT:

REF:

DEPT:



Uncorrected temp
Thermometer ID

3.7 °C

16

CF 0 Initials Mes

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

FedEx
Express



J211020121101AN

3 of 3

THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

MPS# 5220 7116 6008

Mstr# 5220 7116 5983

0201

NA AGCA

15238

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4/5/2022



Environment Testing
TestAmerica

Part # 159469-434 MTW EXP 09/22

ORIGIN ID: LITYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA RTL SC
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 02MAR22
ACTWT: 61.65 LB
CAD: 859116/CFE3510
BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDG PARK
PITTSBURGH PA 15238

(412) 983-7068 REF: 3EPT1
TNY: 3EPT1

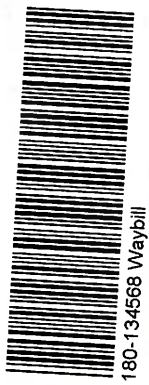
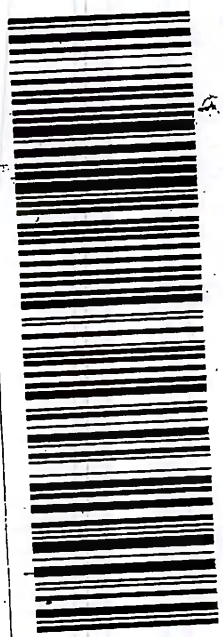
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Thermometer ID 16

CF 0 Initials MB
PT-MI-SR-001 effective 11/6/18



THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

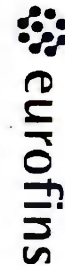
1 of 3
TRK# 5220 7116 5983
MASTER ##
NA AGCA
15238
PA-US PIT



180-134568 Waybill



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Environment Testing
TestAmerica

RT 98
10-30
5994
03/03
A

ORIGIN ID: L1YA (679) 988-994
GEORGE TAYLOR
EUROFINS TESTING AMERICA
6215 REGENCY PARKWAY NW
SUITE 900
NORCROSS, GA 30071
UNITED STATES US

SHIP DATE: 02MAR22
NET WT: 61.65 LB
CPO: 859116CAFEAS10

BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 863-7068 REF: 1

REF: 1

REF: 1

DEPT: 1

Thermometer ID

CF

Initials

PT-W-SR-001 effective 1/8/18



AR1011210201127

MPS# 2 of 3
0263 5220 7116 5994
Mstr# 5220 7116 5983

THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

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15238
PA-US PIT



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Environment Testing
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Part # 159469-434MTW EXP 09/22

ORIGIN ID: LIYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NM
SUITE 900
NORCROSS, GA 30071
UNITED STATES US
SHIP DATE: 02MAR22
ACTWT: 61.65 LB
CRD: 859116/CAFES510

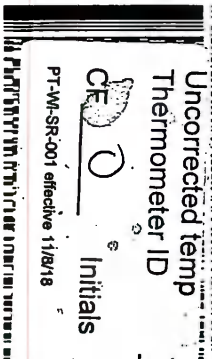
BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
(412) 983-7068
REF: DEPT:

412
PIT

Uncorrected temp
Thermometer ID

CFE Initials
Mes



3 of 3

MPS# 5220 7116 6008
02631
Mstr# 5220 7116 5983

THU - 03 MAR 10:30A
PRIORITY OVERNIGHT

NA AGCA

15238
PA-US
PIT



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134564-2

Login Number: 134564

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: 180-134564-2

Login Number: 134564

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 03/07/22 12:42 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	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134564-2

Login Number: 134568

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: 180-134564-2

Login Number: 134568

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 03/07/22 12:42 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.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
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Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

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

Laboratory Job ID: 180-134881-1
Client Project/Site: Wansley Ash Pond

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
3/23/2022 6:05:54 PM

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

LINKS

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www.eurofinsus.com/Env

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

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

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Job ID: 180-134881-1

Laboratory: Eurofins Pittsburgh

Narrative

**Job Narrative
180-134881-1**

Receipt

The samples were received on 3/9/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4°C and 2.5°C

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): WGWA-18 (180-134881-1). The container labels list GWA-18, while the COC lists WGWA-18. The id on the COC was used.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike (MS) recoveries for analytical batch 180-391628 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Metals

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: Wansley Ash Pond

Job ID: 180-134881-1

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
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
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: Wansley Ash Pond

Job ID: 180-134881-1

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-22
California	State	2891	04-30-22
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	06-30-22
Kansas	NELAP	E-10350	03-31-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-22
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-05-22
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-02-22
North Carolina (WW/SW)	State	434	12-31-22
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	02-06-22 *
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-21 *
South Carolina	State	89014	06-30-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22
Virginia	NELAP	10043	09-15-22
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-22

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

Sample Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-134881-1	WGWA-18	Water	03/03/22 12:40	03/09/22 10:30
180-134881-2	WGWC-8	Water	03/03/22 16:45	03/09/22 10:30
180-134881-3	WGWC-9	Water	03/03/22 15:25	03/09/22 10:30
180-134881-4	EB-2	Water	03/03/22 16:15	03/09/22 10:30

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Method Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020B	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
EPA 9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
SM2320 B	Alkalinity, Total	SM18	TAL PIT
Field Sampling	Field Sampling	EPA	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	TAL 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:

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

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Client Sample ID: WGWA-18

Lab Sample ID: 180-134881-1

Date Collected: 03/03/22 12:40

Matrix: Water

Date Received: 03/09/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391628	03/15/22 20:23	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391645	03/15/22 10:35	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			391939	03/16/22 15:19	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	392235	03/18/22 14:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392705	03/23/22 08:27	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	391154	03/10/22 13:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			391172	03/10/22 14:48	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391178	03/10/22 16:13	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/12/22 01:34	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391896	03/03/22 12:40	FDS	TAL PIT

Client Sample ID: WGWC-8

Lab Sample ID: 180-134881-2

Date Collected: 03/03/22 16:45

Matrix: Water

Date Received: 03/09/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391628	03/15/22 19:52	JRB	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		5			391628	03/15/22 20:08	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391645	03/15/22 10:35	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			391939	03/16/22 15:23	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	392235	03/18/22 14:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392705	03/23/22 08:28	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	391154	03/10/22 13:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			391172	03/10/22 15:02	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391178	03/10/22 16:13	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/11/22 23:15	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391896	03/03/22 16:45	FDS	TAL PIT

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Client Sample ID: WGWC-9

Lab Sample ID: 180-134881-3

Date Collected: 03/03/22 15:25

Matrix: Water

Date Received: 03/09/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391628	03/15/22 19:37	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391645	03/15/22 10:35	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			391939	03/16/22 15:38	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	392235	03/18/22 14:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392705	03/23/22 08:29	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	391154	03/10/22 13:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			391172	03/10/22 15:06	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391178	03/10/22 16:13	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/12/22 01:41	CMT	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			391896	03/03/22 15:25	FDS	TAL PIT

Client Sample ID: EB-2

Lab Sample ID: 180-134881-4

Date Collected: 03/03/22 16:15

Matrix: Water

Date Received: 03/09/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			391628	03/15/22 19:22	JRB	TAL PIT
Total Recoverable	Prep	3005A			25 mL	25 mL	391645	03/15/22 10:35	RGM	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			391939	03/16/22 15:41	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	392235	03/18/22 14:24	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			392705	03/23/22 08:30	RJR	TAL PIT
Total/NA	Prep	9030B			50 mL	50 mL	391154	03/10/22 13:00	HEK	TAL PIT
Total/NA	Analysis	EPA 9034 Instrument ID: NOEQUIP		1			391172	03/10/22 15:11	HEK	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	391178	03/10/22 16:13	JCR	TAL PIT
Total/NA	Analysis	SM2320 B Instrument ID: PCTITRATOR		1			391369	03/12/22 02:00	CMT	TAL PIT

Laboratory References:

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

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Analyst References:

Lab: TAL PIT

Batch Type: Prep

HEK = Hope Kiesling

RGM = Rebecca Manns

RJR = Ron Rosenbaum

Batch Type: Analysis

CMT = Cassandra Tlumac

FDS = Sampler Field

HEK = Hope Kiesling

JCR = Jessica Rodgers

JRB = James Burzio

RJR = Ron Rosenbaum

RSK = Robert Kurtz

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Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Client Sample ID: WGWA-18

Lab Sample ID: 180-134881-1

Date Collected: 03/03/22 12:40

Matrix: Water

Date Received: 03/09/22 10:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.0	F1	1.0	0.71	mg/L			03/15/22 20:23	1
Fluoride	0.078	J F1	0.10	0.026	mg/L			03/15/22 20:23	1
Sulfate	8.5	F1	1.0	0.76	mg/L			03/15/22 20:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/15/22 10:35	03/16/22 15:19	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/15/22 10:35	03/16/22 15:19	1
Barium	0.013		0.010	0.0031	mg/L		03/15/22 10:35	03/16/22 15:19	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/15/22 10:35	03/16/22 15:19	1
Boron	0.10	B	0.080	0.060	mg/L		03/15/22 10:35	03/16/22 15:19	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/15/22 10:35	03/16/22 15:19	1
Calcium	6.1		0.50	0.13	mg/L		03/15/22 10:35	03/16/22 15:19	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/15/22 10:35	03/16/22 15:19	1
Cobalt	0.0014	J	0.0025	0.00026	mg/L		03/15/22 10:35	03/16/22 15:19	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/15/22 10:35	03/16/22 15:19	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/15/22 10:35	03/16/22 15:19	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/15/22 10:35	03/16/22 15:19	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/15/22 10:35	03/16/22 15:19	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/15/22 10:35	03/16/22 15:19	1
Sodium	4.2		0.50	0.18	mg/L		03/15/22 10:35	03/16/22 15:19	1
Potassium	2.7		0.50	0.16	mg/L		03/15/22 10:35	03/16/22 15:19	1
Iron	0.22		0.050	0.028	mg/L		03/15/22 10:35	03/16/22 15:19	1
Magnesium	1.1		0.50	0.050	mg/L		03/15/22 10:35	03/16/22 15:19	1
Manganese	0.14		0.0050	0.0013	mg/L		03/15/22 10:35	03/16/22 15:19	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/22 14:24	03/23/22 08:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	2.4	J	3.0	2.1	mg/L		03/10/22 13:00	03/10/22 14:48	1
Total Dissolved Solids	43		10	10	mg/L			03/10/22 16:13	1
Total Alkalinity as CaCO3 to pH 4.5	25		5.0	5.0	mg/L			03/12/22 01:34	1
Bicarbonate Alkalinity as CaCO3	25		5.0	5.0	mg/L			03/12/22 01:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.94				SU			03/03/22 12:40	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Client Sample ID: WGWC-8

Lab Sample ID: 180-134881-2

Date Collected: 03/03/22 16:45

Matrix: Water

Date Received: 03/09/22 10:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		1.0	0.71	mg/L			03/15/22 19:52	1
Fluoride	0.19		0.10	0.026	mg/L			03/15/22 19:52	1
Sulfate	250		5.0	3.8	mg/L			03/15/22 20:08	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/15/22 10:35	03/16/22 15:23	1
Arsenic	0.0014		0.0010	0.00028	mg/L		03/15/22 10:35	03/16/22 15:23	1
Barium	<0.0031		0.010	0.0031	mg/L		03/15/22 10:35	03/16/22 15:23	1
Beryllium	0.0027		0.0025	0.00027	mg/L		03/15/22 10:35	03/16/22 15:23	1
Boron	2.7	B	0.080	0.060	mg/L		03/15/22 10:35	03/16/22 15:23	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/15/22 10:35	03/16/22 15:23	1
Calcium	88		0.50	0.13	mg/L		03/15/22 10:35	03/16/22 15:23	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/15/22 10:35	03/16/22 15:23	1
Cobalt	0.00030	J	0.0025	0.00026	mg/L		03/15/22 10:35	03/16/22 15:23	1
Lead	0.00052	J	0.0010	0.00017	mg/L		03/15/22 10:35	03/16/22 15:23	1
Lithium	0.014		0.0050	0.00083	mg/L		03/15/22 10:35	03/16/22 15:23	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/15/22 10:35	03/16/22 15:23	1
Selenium	0.0038	J	0.0050	0.00074	mg/L		03/15/22 10:35	03/16/22 15:23	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/15/22 10:35	03/16/22 15:23	1
Sodium	39		0.50	0.18	mg/L		03/15/22 10:35	03/16/22 15:23	1
Potassium	9.7		0.50	0.16	mg/L		03/15/22 10:35	03/16/22 15:23	1
Iron	0.058		0.050	0.028	mg/L		03/15/22 10:35	03/16/22 15:23	1
Magnesium	22		0.50	0.050	mg/L		03/15/22 10:35	03/16/22 15:23	1
Manganese	0.011		0.0050	0.0013	mg/L		03/15/22 10:35	03/16/22 15:23	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/22 14:24	03/23/22 08:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/10/22 13:00	03/10/22 15:02	1
Total Dissolved Solids	530		10	10	mg/L			03/10/22 16:13	1
Total Alkalinity as CaCO3 to pH 4.5	5.6		5.0	5.0	mg/L			03/11/22 23:15	1
Bicarbonate Alkalinity as CaCO3	5.6		5.0	5.0	mg/L			03/11/22 23:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.21				SU			03/03/22 16:45	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Client Sample ID: WGWC-9

Lab Sample ID: 180-134881-3

Date Collected: 03/03/22 15:25

Matrix: Water

Date Received: 03/09/22 10:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.5		1.0	0.71	mg/L			03/15/22 19:37	1
Fluoride	1.0		0.10	0.026	mg/L			03/15/22 19:37	1
Sulfate	58		1.0	0.76	mg/L			03/15/22 19:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0080		0.0020	0.00051	mg/L		03/15/22 10:35	03/16/22 15:38	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/15/22 10:35	03/16/22 15:38	1
Barium	<0.0031		0.010	0.0031	mg/L		03/15/22 10:35	03/16/22 15:38	1
Beryllium	0.00036	J	0.0025	0.00027	mg/L		03/15/22 10:35	03/16/22 15:38	1
Boron	0.62	B	0.080	0.060	mg/L		03/15/22 10:35	03/16/22 15:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/15/22 10:35	03/16/22 15:38	1
Calcium	8.6		0.50	0.13	mg/L		03/15/22 10:35	03/16/22 15:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/15/22 10:35	03/16/22 15:38	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/15/22 10:35	03/16/22 15:38	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/15/22 10:35	03/16/22 15:38	1
Lithium	0.030		0.0050	0.00083	mg/L		03/15/22 10:35	03/16/22 15:38	1
Molybdenum	0.0027	J	0.015	0.00061	mg/L		03/15/22 10:35	03/16/22 15:38	1
Selenium	0.0021	J	0.0050	0.00074	mg/L		03/15/22 10:35	03/16/22 15:38	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/15/22 10:35	03/16/22 15:38	1
Sodium	21		0.50	0.18	mg/L		03/15/22 10:35	03/16/22 15:38	1
Potassium	1.3		0.50	0.16	mg/L		03/15/22 10:35	03/16/22 15:38	1
Iron	<0.028		0.050	0.028	mg/L		03/15/22 10:35	03/16/22 15:38	1
Magnesium	2.5		0.50	0.050	mg/L		03/15/22 10:35	03/16/22 15:38	1
Manganese	0.019		0.0050	0.0013	mg/L		03/15/22 10:35	03/16/22 15:38	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/22 14:24	03/23/22 08:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	2.6	J	3.0	2.1	mg/L		03/10/22 13:00	03/10/22 15:06	1
Total Dissolved Solids	140		10	10	mg/L			03/10/22 16:13	1
Total Alkalinity as CaCO3 to pH 4.5	17		5.0	5.0	mg/L			03/12/22 01:41	1
Bicarbonate Alkalinity as CaCO3	17		5.0	5.0	mg/L			03/12/22 01:41	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.86				SU			03/03/22 15:25	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Client Sample ID: EB-2

Lab Sample ID: 180-134881-4

Date Collected: 03/03/22 16:15

Matrix: Water

Date Received: 03/09/22 10:30

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			03/15/22 19:22	1
Fluoride	0.043	J	0.10	0.026	mg/L			03/15/22 19:22	1
Sulfate	0.88	J	1.0	0.76	mg/L			03/15/22 19:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		03/15/22 10:35	03/16/22 15:41	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/15/22 10:35	03/16/22 15:41	1
Barium	<0.0031		0.010	0.0031	mg/L		03/15/22 10:35	03/16/22 15:41	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/15/22 10:35	03/16/22 15:41	1
Boron	0.066	J B	0.080	0.060	mg/L		03/15/22 10:35	03/16/22 15:41	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/15/22 10:35	03/16/22 15:41	1
Calcium	<0.13		0.50	0.13	mg/L		03/15/22 10:35	03/16/22 15:41	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/15/22 10:35	03/16/22 15:41	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/15/22 10:35	03/16/22 15:41	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/15/22 10:35	03/16/22 15:41	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/15/22 10:35	03/16/22 15:41	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/15/22 10:35	03/16/22 15:41	1
Selenium	<0.00074		0.0050	0.00074	mg/L		03/15/22 10:35	03/16/22 15:41	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/15/22 10:35	03/16/22 15:41	1
Sodium	<0.18		0.50	0.18	mg/L		03/15/22 10:35	03/16/22 15:41	1
Potassium	<0.16		0.50	0.16	mg/L		03/15/22 10:35	03/16/22 15:41	1
Iron	<0.028		0.050	0.028	mg/L		03/15/22 10:35	03/16/22 15:41	1
Magnesium	<0.050		0.50	0.050	mg/L		03/15/22 10:35	03/16/22 15:41	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/15/22 10:35	03/16/22 15:41	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/22 14:24	03/23/22 08:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	3.4		3.0	2.1	mg/L		03/10/22 13:00	03/10/22 15:11	1
Total Dissolved Solids	<10		10	10	mg/L			03/10/22 16:13	1
Total Alkalinity as CaCO3 to pH 4.5	<5.0		5.0	5.0	mg/L			03/12/22 02:00	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/12/22 02:00	1

QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 180-391628/7
Matrix: Water
Analysis Batch: 391628

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			03/15/22 10:39	1
Fluoride	<0.026		0.10	0.026	mg/L			03/15/22 10:39	1
Sulfate	<0.76		1.0	0.76	mg/L			03/15/22 10:39	1

Lab Sample ID: LCS 180-391628/6
Matrix: Water
Analysis Batch: 391628

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	2.55		mg/L		102	90 - 110
Sulfate	50.0	49.2		mg/L		98	90 - 110

Lab Sample ID: 180-134881-1 MS
Matrix: Water
Analysis Batch: 391628

Client Sample ID: WGWA-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
	Chloride	2.0		F1	50.0				
Fluoride	0.078	J F1	2.50	2.89	F1	mg/L		113	90 - 110
Sulfate	8.5	F1	50.0	64.9	F1	mg/L		113	90 - 110

Lab Sample ID: 180-134881-1 MSD
Matrix: Water
Analysis Batch: 391628

Client Sample ID: WGWA-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Chloride	2.0		F1	50.0						
Fluoride	0.078	J F1	2.50	2.74		mg/L		106	90 - 110	5	20
Sulfate	8.5	F1	50.0	61.8		mg/L		107	90 - 110	5	20

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

Lab Sample ID: MB 180-391645/1-A
Matrix: Water
Analysis Batch: 391939

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 391645

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00051		0.0020	0.00051	mg/L		03/15/22 10:35	03/16/22 15:12	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		03/15/22 10:35	03/16/22 15:12	1
Barium	<0.0031		0.010	0.0031	mg/L		03/15/22 10:35	03/16/22 15:12	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		03/15/22 10:35	03/16/22 15:12	1
Boron	0.0730	J	0.080	0.060	mg/L		03/15/22 10:35	03/16/22 15:12	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		03/15/22 10:35	03/16/22 15:12	1
Calcium	<0.13		0.50	0.13	mg/L		03/15/22 10:35	03/16/22 15:12	1
Chromium	<0.0015		0.0020	0.0015	mg/L		03/15/22 10:35	03/16/22 15:12	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		03/15/22 10:35	03/16/22 15:12	1
Lead	<0.00017		0.0010	0.00017	mg/L		03/15/22 10:35	03/16/22 15:12	1
Lithium	<0.00083		0.0050	0.00083	mg/L		03/15/22 10:35	03/16/22 15:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		03/15/22 10:35	03/16/22 15:12	1

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

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

Lab Sample ID: MB 180-391645/1-A
Matrix: Water
Analysis Batch: 391939

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 391645

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.00074		0.0050	0.00074	mg/L		03/15/22 10:35	03/16/22 15:12	1
Thallium	<0.00047		0.0010	0.00047	mg/L		03/15/22 10:35	03/16/22 15:12	1
Sodium	<0.18		0.50	0.18	mg/L		03/15/22 10:35	03/16/22 15:12	1
Potassium	<0.16		0.50	0.16	mg/L		03/15/22 10:35	03/16/22 15:12	1
Iron	<0.028		0.050	0.028	mg/L		03/15/22 10:35	03/16/22 15:12	1
Magnesium	<0.050		0.50	0.050	mg/L		03/15/22 10:35	03/16/22 15:12	1
Manganese	<0.0013		0.0050	0.0013	mg/L		03/15/22 10:35	03/16/22 15:12	1

Lab Sample ID: LCS 180-391645/2-A
Matrix: Water
Analysis Batch: 391939

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 391645

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.260		mg/L		104	80 - 120
Arsenic	1.00	0.997		mg/L		100	80 - 120
Barium	1.00	1.02		mg/L		102	80 - 120
Beryllium	0.500	0.512		mg/L		102	80 - 120
Boron	1.25	1.22		mg/L		98	80 - 120
Cadmium	0.500	0.513		mg/L		103	80 - 120
Calcium	25.0	25.9		mg/L		104	80 - 120
Chromium	0.500	0.511		mg/L		102	80 - 120
Cobalt	0.500	0.507		mg/L		101	80 - 120
Lead	0.500	0.516		mg/L		103	80 - 120
Lithium	0.500	0.493		mg/L		99	80 - 120
Molybdenum	0.500	0.510		mg/L		102	80 - 120
Selenium	1.00	0.984		mg/L		98	80 - 120
Thallium	1.00	1.04		mg/L		104	80 - 120
Sodium	25.0	25.8		mg/L		103	80 - 120
Potassium	25.0	25.7		mg/L		103	80 - 120
Iron	5.00	5.19		mg/L		104	80 - 120
Magnesium	25.0	25.4		mg/L		102	80 - 120
Manganese	0.500	0.494		mg/L		99	80 - 120

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-392235/1-A
Matrix: Water
Analysis Batch: 392705

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 392235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		03/18/22 14:24	03/23/22 08:07	1

Lab Sample ID: LCS 180-392235/2-A
Matrix: Water
Analysis Batch: 392705

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 392235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00230		mg/L		92	80 - 120

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Method: EPA 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 180-391154/1-A
Matrix: Water
Analysis Batch: 391172

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 391154

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<2.1		3.0	2.1	mg/L		03/10/22 13:00	03/10/22 14:39	1

Lab Sample ID: LCS 180-391154/2-A
Matrix: Water
Analysis Batch: 391172

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 391154

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	12.6	12.0		mg/L		95	85 - 115

Lab Sample ID: 180-134881-1 MS
Matrix: Water
Analysis Batch: 391172

Client Sample ID: WGWA-18
Prep Type: Total/NA
Prep Batch: 391154

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	2.4	J	12.6	13.3		mg/L		86	75 - 125

Lab Sample ID: 180-134881-1 MSD
Matrix: Water
Analysis Batch: 391172

Client Sample ID: WGWA-18
Prep Type: Total/NA
Prep Batch: 391154

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Sulfide	2.4	J	12.6	13.5		mg/L		88	75 - 125	1	20

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

Lab Sample ID: MB 180-391178/2
Matrix: Water
Analysis Batch: 391178

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			03/10/22 16:13	1

Lab Sample ID: LCS 180-391178/1
Matrix: Water
Analysis Batch: 391178

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	469	450		mg/L		96	85 - 115

Method: SM2320 B - Alkalinity, Total

Lab Sample ID: MB 180-391369/30
Matrix: Water
Analysis Batch: 391369

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			03/11/22 22:03	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/11/22 22:03	1

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QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: MB 180-391369/54
Matrix: Water
Analysis Batch: 391369

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			03/12/22 00:52	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/12/22 00:52	1

Lab Sample ID: MB 180-391369/6
Matrix: Water
Analysis Batch: 391369

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			03/11/22 19:00	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			03/11/22 19:00	1

Lab Sample ID: LCS 180-391369/29
Matrix: Water
Analysis Batch: 391369

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	265	251		mg/L		95	90 - 110

Lab Sample ID: LCS 180-391369/53
Matrix: Water
Analysis Batch: 391369

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	265	248		mg/L		94	90 - 110

Lab Sample ID: LLCS 180-391369/28
Matrix: Water
Analysis Batch: 391369

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	13.8		mg/L		87	75 - 125

Lab Sample ID: LLCS 180-391369/52
Matrix: Water
Analysis Batch: 391369

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3 to pH 4.5	15.9	15.1		mg/L		95	75 - 125

Lab Sample ID: 180-134881-2 DU
Matrix: Water
Analysis Batch: 391369

Client Sample ID: WGWC-8
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	5.6		6.18		mg/L		9	20
Bicarbonate Alkalinity as CaCO3	5.6		6.18		mg/L		9	20

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QC Sample Results

Client: Southern Company
 Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Method: SM2320 B - Alkalinity, Total (Continued)

Lab Sample ID: 180-134881-4 DU
 Matrix: Water
 Analysis Batch: 391369

Client Sample ID: EB-2
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Alkalinity as CaCO3 to pH 4.5	<5.0		<5.0		mg/L		NC	20
Bicarbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

- 1
- 2
- 3
- 4
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- 6
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- 8
- 9
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- 11
- 12
- 13

QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

HPLC/IC

Analysis Batch: 391628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total/NA	Water	EPA 300.0 R2.1	
180-134881-2	WGWC-8	Total/NA	Water	EPA 300.0 R2.1	
180-134881-2	WGWC-8	Total/NA	Water	EPA 300.0 R2.1	
180-134881-3	WGWC-9	Total/NA	Water	EPA 300.0 R2.1	
180-134881-4	EB-2	Total/NA	Water	EPA 300.0 R2.1	
MB 180-391628/7	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-391628/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-134881-1 MS	WGWA-18	Total/NA	Water	EPA 300.0 R2.1	
180-134881-1 MSD	WGWA-18	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 391645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total Recoverable	Water	3005A	
180-134881-2	WGWC-8	Total Recoverable	Water	3005A	
180-134881-3	WGWC-9	Total Recoverable	Water	3005A	
180-134881-4	EB-2	Total Recoverable	Water	3005A	
MB 180-391645/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-391645/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 391939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total Recoverable	Water	EPA 6020B	391645
180-134881-2	WGWC-8	Total Recoverable	Water	EPA 6020B	391645
180-134881-3	WGWC-9	Total Recoverable	Water	EPA 6020B	391645
180-134881-4	EB-2	Total Recoverable	Water	EPA 6020B	391645
MB 180-391645/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	391645
LCS 180-391645/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	391645

Prep Batch: 392235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total/NA	Water	7470A	
180-134881-2	WGWC-8	Total/NA	Water	7470A	
180-134881-3	WGWC-9	Total/NA	Water	7470A	
180-134881-4	EB-2	Total/NA	Water	7470A	
MB 180-392235/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-392235/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 392705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total/NA	Water	EPA 7470A	392235
180-134881-2	WGWC-8	Total/NA	Water	EPA 7470A	392235
180-134881-3	WGWC-9	Total/NA	Water	EPA 7470A	392235
180-134881-4	EB-2	Total/NA	Water	EPA 7470A	392235
MB 180-392235/1-A	Method Blank	Total/NA	Water	EPA 7470A	392235
LCS 180-392235/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	392235

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QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

General Chemistry

Prep Batch: 391154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total/NA	Water	9030B	
180-134881-2	WGWC-8	Total/NA	Water	9030B	
180-134881-3	WGWC-9	Total/NA	Water	9030B	
180-134881-4	EB-2	Total/NA	Water	9030B	
MB 180-391154/1-A	Method Blank	Total/NA	Water	9030B	
LCS 180-391154/2-A	Lab Control Sample	Total/NA	Water	9030B	
180-134881-1 MS	WGWA-18	Total/NA	Water	9030B	
180-134881-1 MSD	WGWA-18	Total/NA	Water	9030B	

Analysis Batch: 391172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total/NA	Water	EPA 9034	391154
180-134881-2	WGWC-8	Total/NA	Water	EPA 9034	391154
180-134881-3	WGWC-9	Total/NA	Water	EPA 9034	391154
180-134881-4	EB-2	Total/NA	Water	EPA 9034	391154
MB 180-391154/1-A	Method Blank	Total/NA	Water	EPA 9034	391154
LCS 180-391154/2-A	Lab Control Sample	Total/NA	Water	EPA 9034	391154
180-134881-1 MS	WGWA-18	Total/NA	Water	EPA 9034	391154
180-134881-1 MSD	WGWA-18	Total/NA	Water	EPA 9034	391154

Analysis Batch: 391178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total/NA	Water	SM 2540C	
180-134881-2	WGWC-8	Total/NA	Water	SM 2540C	
180-134881-3	WGWC-9	Total/NA	Water	SM 2540C	
180-134881-4	EB-2	Total/NA	Water	SM 2540C	
MB 180-391178/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-391178/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 391369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total/NA	Water	SM2320 B	
180-134881-2	WGWC-8	Total/NA	Water	SM2320 B	
180-134881-3	WGWC-9	Total/NA	Water	SM2320 B	
180-134881-4	EB-2	Total/NA	Water	SM2320 B	
MB 180-391369/30	Method Blank	Total/NA	Water	SM2320 B	
MB 180-391369/54	Method Blank	Total/NA	Water	SM2320 B	
MB 180-391369/6	Method Blank	Total/NA	Water	SM2320 B	
LCS 180-391369/29	Lab Control Sample	Total/NA	Water	SM2320 B	
LCS 180-391369/53	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-391369/28	Lab Control Sample	Total/NA	Water	SM2320 B	
LLCS 180-391369/52	Lab Control Sample	Total/NA	Water	SM2320 B	
180-134881-2 DU	WGWC-8	Total/NA	Water	SM2320 B	
180-134881-4 DU	EB-2	Total/NA	Water	SM2320 B	

Field Service / Mobile Lab

Analysis Batch: 391896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total/NA	Water	Field Sampling	
180-134881-2	WGWC-8	Total/NA	Water	Field Sampling	

Eurofins Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-1

Field Service / Mobile Lab (Continued)

Analysis Batch: 391896 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-3	WGWC-9	Total/NA	Water	Field Sampling	

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

- 1
- 2
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- 10
- 11
- 12
- 13

Do not use using this tag.



180-134881 Waybill



Environment Testing
TestAmerica

Part # 159489-434 MTW EXP 09/22

ORGIN ID: IYA (878) 966-9991
 ERIC TAYLOR
 EUROFINS TESTING AMERICA
 301 REGENCY PARKWAY NW
 SUITE 900
 NORROSS, GA 30071
 UNITED STATES US

SHIP DATE: 09MAR22
 ACTING WT: 60.65 LB
 CAD: 859116/CHF3510
 BILL THIRD PARTY

TO SAMPLE RECEIVING:
 EUROFINS TESTAMERICA PITTSBURGH
 30 ALPHA DR.
 RIG PARK
 PITTSBURGH PA 15238

(412) 963-7068
 Ref No: 068

REF: Uncorrected temp
 Thermometer ID
 CF G Initials ST



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



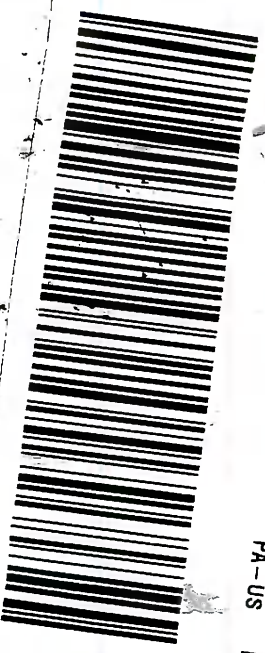
J211020121101uv

TRK# 102
 0201 5220 1116 7037
 # MASTER #

WED - 09 MAR 10:30A
 PRIORITY OVERNIGHT

NA AGCA

15238
 PA-US PIT



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134881-1

Login Number: 134881

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").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

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

Laboratory Job ID: 180-134881-2
Client Project/Site: Wansley Ash Pond

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
4/11/2022 6:07:04 PM

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

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

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

PA Lab ID: 02-00416



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Case Narrative

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Job ID: 180-134881-2

Laboratory: Eurofins Pittsburgh

Narrative

**Job Narrative
180-134881-2**

Comments

No additional comments.

Receipt

The samples were received on 3/9/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 2.5° C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): WGWA-18 (180-134881-1). The container labels list GWA-18, while the COC lists WGWA-18. The id on the COC was used.

RAD

Methods 903.0, 9315: Radium-226 batch 555104

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. WGWA-18 (180-134881-1), WGWC-8 (180-134881-2), WGWC-9 (180-134881-3), EB-2 (180-134881-4), (LCS 160-555104/1-A) and (MB 160-555104/18-A)

Methods 904.0, 9320: Radium-228 batch 555108

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. WGWA-18 (180-134881-1), WGWC-8 (180-134881-2), WGWC-9 (180-134881-3), EB-2 (180-134881-4), (LCS 160-555108/1-A) and (MB 160-555108/18-A)

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



Definitions/Glossary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

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: Wansley Ash Pond

Job ID: 180-134881-2

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	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-22
California	Los Angeles County Sanitation Districts	10259	06-30-22
California	State	2886	07-01-22
Connecticut	State	PH-0241	03-31-23
Florida	NELAP	E87689	06-30-22
HI - RadChem Recognition	State	n/a	06-30-22
Illinois	NELAP	200023	11-30-22
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-22
Kentucky (DW)	State	KY90125	12-31-22
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-22
Louisiana	NELAP	04080	06-30-22
Louisiana (DW)	State	LA011	12-31-22
Maryland	State	310	09-30-22
MI - RadChem Recognition	State	9005	06-30-22
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-22
New Jersey	NELAP	MO002	06-30-22
New York	NELAP	11616	04-01-23
North Dakota	State	R-207	06-30-22
NRC	NRC	24-24817-01	12-31-22
Oklahoma	NELAP	9997	08-31-22
Oregon	NELAP	4157	09-01-22
Pennsylvania	NELAP	68-00540	02-28-23
South Carolina	State	85002001	06-30-22
Texas	NELAP	T104704193	07-31-22
US Fish & Wildlife	US Federal Programs	058448	07-31-22
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542021-14	08-01-22
Virginia	NELAP	10310	06-14-22
Washington	State	C592	08-30-22
West Virginia DEP	State	381	10-31-22

Sample Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-134881-1	WGWA-18	Water	03/03/22 12:40	03/09/22 10:30
180-134881-2	WGWC-8	Water	03/03/22 16:45	03/09/22 10:30
180-134881-3	WGWC-9	Water	03/03/22 15:25	03/09/22 10:30
180-134881-4	EB-2	Water	03/03/22 16:15	03/09/22 10:30

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Method Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

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

Protocol References:

None = None

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

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

Laboratory References:

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

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Client Sample ID: WGWA-18

Lab Sample ID: 180-134881-1

Date Collected: 03/03/22 12:40

Matrix: Water

Date Received: 03/09/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			995.18 mL	1.0 g	555104	03/14/22 10:20	LPS	TAL SL
Total/NA	Analysis	9315		1			558547	04/05/22 08:05	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			995.18 mL	1.0 g	555108	03/14/22 10:59	LPS	TAL SL
Total/NA	Analysis	9320		1			558069	03/31/22 13:33	CLP	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			559789	04/11/22 15:35	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-8

Lab Sample ID: 180-134881-2

Date Collected: 03/03/22 16:45

Matrix: Water

Date Received: 03/09/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			748.51 mL	1.0 g	555104	03/14/22 10:20	LPS	TAL SL
Total/NA	Analysis	9315		1			558547	04/05/22 08:05	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			748.51 mL	1.0 g	555108	03/14/22 10:59	LPS	TAL SL
Total/NA	Analysis	9320		1			558069	03/31/22 13:33	CLP	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			559789	04/11/22 15:35	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-9

Lab Sample ID: 180-134881-3

Date Collected: 03/03/22 15:25

Matrix: Water

Date Received: 03/09/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			991.97 mL	1.0 g	555104	03/14/22 10:20	LPS	TAL SL
Total/NA	Analysis	9315		1			558547	04/05/22 08:05	FLC	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			991.97 mL	1.0 g	555108	03/14/22 10:59	LPS	TAL SL
Total/NA	Analysis	9320		1			558069	03/31/22 13:33	CLP	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			559789	04/11/22 15:35	CAH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-2

Lab Sample ID: 180-134881-4

Date Collected: 03/03/22 16:15

Matrix: Water

Date Received: 03/09/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.05 mL	1.0 g	555104	03/14/22 10:20	LPS	TAL SL
Total/NA	Analysis	9315		1			558547	04/05/22 08:05	FLC	TAL SL
Instrument ID: GFPCRED										

Lab Chronicle

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Client Sample ID: EB-2

Lab Sample ID: 180-134881-4

Date Collected: 03/03/22 16:15

Matrix: Water

Date Received: 03/09/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1001.05 mL	1.0 g	555108	03/14/22 10:59	LPS	TAL SL
Total/NA	Analysis	9320		1			558239	03/31/22 13:38	EMH	TAL SL
Instrument ID: GFPCPURPLE										
Total/NA	Analysis	Ra226_Ra228		1			559789	04/11/22 15:35	CAH	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

LPS = Lauren Szostak

Batch Type: Analysis

CAH = Chris Hough

CLP = Cassandra Park

EMH = Elizabeth Hoerchler

FLC = Fernando Cruz

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Client Sample ID: WGWA-18

Lab Sample ID: 180-134881-1

Date Collected: 03/03/22 12:40

Matrix: Water

Date Received: 03/09/22 10:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.120	U	0.107	0.108	1.00	0.160	pCi/L	03/14/22 10:20	04/05/22 08:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.5		40 - 110					03/14/22 10:20	04/05/22 08:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.355	U	0.291	0.293	1.00	0.463	pCi/L	03/14/22 10:59	03/31/22 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.5		40 - 110					03/14/22 10:59	03/31/22 13:33	1
Y Carrier	86.0		40 - 110					03/14/22 10:59	03/31/22 13:33	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.474		0.310	0.312	2.00	0.463	pCi/L		04/11/22 15:35	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Client Sample ID: WGWC-8

Lab Sample ID: 180-134881-2

Date Collected: 03/03/22 16:45

Matrix: Water

Date Received: 03/09/22 10:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.524		0.198	0.204	1.00	0.204	pCi/L	03/14/22 10:20	04/05/22 08:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.4		40 - 110					03/14/22 10:20	04/05/22 08:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.65		0.551	0.603	1.00	0.585	pCi/L	03/14/22 10:59	03/31/22 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.4		40 - 110					03/14/22 10:59	03/31/22 13:33	1
Y Carrier	83.4		40 - 110					03/14/22 10:59	03/31/22 13:33	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.18		0.585	0.637	2.00	0.585	pCi/L		04/11/22 15:35	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Client Sample ID: WGWC-9

Lab Sample ID: 180-134881-3

Date Collected: 03/03/22 15:25

Matrix: Water

Date Received: 03/09/22 10:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0872	U	0.0851	0.0855	1.00	0.132	pCi/L	03/14/22 10:20	04/05/22 08:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					03/14/22 10:20	04/05/22 08:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.344	U	0.274	0.275	1.00	0.433	pCi/L	03/14/22 10:59	03/31/22 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					03/14/22 10:59	03/31/22 13:33	1
Y Carrier	84.1		40 - 110					03/14/22 10:59	03/31/22 13:33	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.431	U	0.287	0.288	2.00	0.433	pCi/L		04/11/22 15:35	1

Client Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Client Sample ID: EB-2

Lab Sample ID: 180-134881-4

Date Collected: 03/03/22 16:15

Matrix: Water

Date Received: 03/09/22 10:30

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0841	U	0.0823	0.0826	1.00	0.125	pCi/L	03/14/22 10:20	04/05/22 08:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.8		40 - 110					03/14/22 10:20	04/05/22 08:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0860	U	0.287	0.287	1.00	0.526	pCi/L	03/14/22 10:59	03/31/22 13:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.8		40 - 110					03/14/22 10:59	03/31/22 13:38	1
Y Carrier	83.7		40 - 110					03/14/22 10:59	03/31/22 13:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.00189	U	0.299	0.299	2.00	0.526	pCi/L		04/11/22 15:35	1

QC Sample Results

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-555104/18-A
Matrix: Water
Analysis Batch: 558547

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555104

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.04039	U	0.0736	0.0737	1.00	0.131	pCi/L	03/14/22 10:20	04/05/22 10:01	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	91.4		40 - 110			03/14/22 10:20	04/05/22 10:01	1		

Lab Sample ID: LCS 160-555104/1-A
Matrix: Water
Analysis Batch: 558547

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555104

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.293		1.03	1.00	0.178	pCi/L	82	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	91.6		40 - 110						

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-555108/18-A
Matrix: Water
Analysis Batch: 558239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555108

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.1688	U	0.230	0.231	1.00	0.441	pCi/L	03/14/22 10:59	03/31/22 13:40	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	91.4		40 - 110			03/14/22 10:59	03/31/22 13:40	1		
Y Carrier	85.2		40 - 110			03/14/22 10:59	03/31/22 13:40	1		

Lab Sample ID: LCS 160-555108/1-A
Matrix: Water
Analysis Batch: 558069

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555108

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	0.875	0.8747		0.315	1.00	0.411	pCi/L	100	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	91.6		40 - 110						
Y Carrier	84.9		40 - 110						

QC Association Summary

Client: Southern Company
Project/Site: Wansley Ash Pond

Job ID: 180-134881-2

Rad

Prep Batch: 555104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total/NA	Water	PrecSep-21	
180-134881-2	WGWC-8	Total/NA	Water	PrecSep-21	
180-134881-3	WGWC-9	Total/NA	Water	PrecSep-21	
180-134881-4	EB-2	Total/NA	Water	PrecSep-21	
MB 160-555104/18-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-555104/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 555108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134881-1	WGWA-18	Total/NA	Water	PrecSep_0	
180-134881-2	WGWC-8	Total/NA	Water	PrecSep_0	
180-134881-3	WGWC-9	Total/NA	Water	PrecSep_0	
180-134881-4	EB-2	Total/NA	Water	PrecSep_0	
MB 160-555108/18-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-555108/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

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- 12
- 13

Do not use using this tag.



180-134881 Waybill



Environment Testing
TestAmerica

Part # 159489-434 MTW EXP 09/22

ORGIN ID: IYA (878) 966-9991
 ERIGE TAYLOR
 EUROFINS TESTING AMERICA
 301 REGENCY PARKWAY NW
 SUITE 900
 NORROSS, GA 30071
 UNITED STATES US

SHIP DATE: 09MAR22
 ACTING WT: 60.65 LB
 CAD: 859116/CHF3510
 BILL THIRD PARTY

TO SAMPLE RECEIVING:
 EUROFINS TESTAMERICA PITTSBURGH
 30 ALPHA DR.
 RIG PARK
 PITTSBURGH PA 15238

(412) 963-7068
 Ref No: 068

REF: Uncorrected temp
 Thermometer ID
 CF G Initials [Signature]
 PT-MI-SR-001 effective 11/8/18



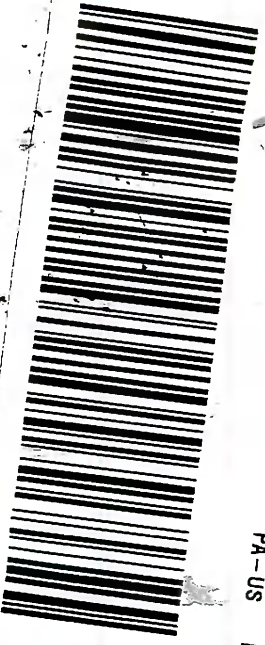
J211020121101uv

TRK# 102
 0201 5220
 # MASTER # 1116 7037

WED - 09 MAR 10:30A
 PRIORITY OVERNIGHT

NA AGCA

15238
 PA-US PIT





Environment Testing
TestAmerica

Part # 159469-494 WITH EXP 09/22

ORIGIN ID: IYA (678) 966-9991
GEORGE TAYLOR
EUROFINS TESTING AMERICA ATL SC
6215 REGENCY PARKWAY NM
SUITE 900
NORCROSS GA 30071
UNITED STATES US

SHIP DATE: 08MAR22
RTWG1: 60.65 LB
CWD: 859116/CAFE3510
BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238
REF1 (412) 983-7068
DEPT1
PT1

DEPT1

41011210204127

FedEx Express

Thermometer ID

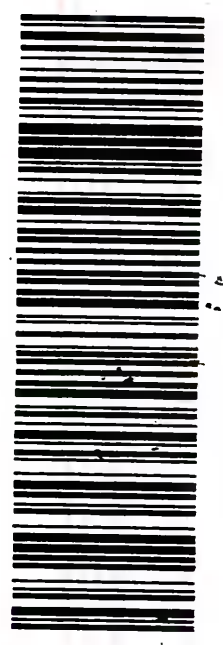
Checked Temp

CF Initials, TS

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

2 of 2
MP# 5220 7116 7048
0263
Mstr# 5220 7116 7037
0201
WED - UV WARR 10:30A
PRIORITY OVERNIGHT

NA AGCA
15238
PA-US PIT



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 180-456692.1
Client Contact: Shali Brown@Eurofins.com		E-Mail: Shali Brown@Eurofins.com	State of Origin: Georgia	Page: Page 1 of 1
Shipping/Receiving		Job # 180-134881-2		
Company: TestAmerica Laboratories, Inc.		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AshNaO2 D - Nitric Acid P - Na2OAS E - NaHSO4 Q - Na2SO3 F - MeOH R - H2SO4 G - Amchlor S - TSP Dodecahydrate H - Ascorbic Acid T - Ice I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4.5 L - EDA Z - other (specify) Other:		
Address: 13715 Rider Trail North,		Accreditations Required (See note):		
City: Earth City		Analysis Requested		
State: MO, Zip: 63045		Total Number of containers		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>		
Email:		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>		
Project #: 18019922		9320_Ra228/Presep_0 Radium 228		
Site: Wansley CCR		9315_Ra226/Presep_21 Radium 226		
		Ra226Ra228_GFP/Combined Radium-226 and Radium-228		
		Special Instructions/Note:		
Sample Identification - Client ID (Lab ID)				
WGWA-18 (180-134881-1)	Sample Date: 3/3/22	Sample Time: 12:40 Eastern	Sample Type (C=Comp, G=grab):	Matrix (W=water, S=solid, O=wastewat, ST=stasis, AW=air)
WGWC-8 (180-134881-2)	Sample Date: 3/3/22	Sample Time: 16:45 Eastern		Water
WGWC-9 (180-134881-3)	Sample Date: 3/3/22	Sample Time: 13:25 Eastern		Water
EB-2 (180-134881-4)	Sample Date: 3/3/22	Sample Time: 16:15 Eastern		Water
<p>Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.</p>				
Possible Hazard Identification				
Unconfirmed				
Deliverable Requested: I, II, III, IV, Other (specify)				
Primary Deliverable Rank: 2				
Empty Kit Relinquished by: <i>MO</i> Date: 3-10-22 17:00				
Relinquished by: <i>FE</i> Date/Time: 3-11-22 09:09				
Relinquished by: <i>FE</i> Date/Time: 3-11-22 09:09				
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				
Custody Seal No.:				
Cooler Temperature(s) °C and Other Remarks:				



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134881-2

Login Number: 134881

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").	False	
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: 180-134881-2

Login Number: 134881

List Number: 2

Creator: Johnson, Autumn R

List Source: Eurofins St. Louis

List Creation: 03/11/22 12:39 PM

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



ANALYTICAL REPORT

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

Laboratory Job ID: 180-134767-1
Client Project/Site: Plant Wansley Ash Pond
Revision: 3

For:
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
8/16/2022 8:50:18 AM

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



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Case Narrative

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

Job ID: 180-134767-1

Job ID: 180-134767-1

Laboratory: Eurofins Pittsburgh

Narrative

**Job Narrative
180-134767-1**

Comments

081622 Revised report to change job description name from Wansley Landfill Supplemental to Wansley Ash Pond at client request. This report replaces the report previously issued on 032522.
032522 Revised report to report to the reporting limit instead of MDL at client request. This report replaces the report previously issued on 032222.
032222 Revised report to correct sample time from 1240 to 1410 for WCR(-0.6) (180-134767-3). This report replaces the report previously issued on 031722.

Receipt

The samples were received on 3/5/2022 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 6 coolers at receipt time were 2.1° C, 2.9° C, 2.9° C, 4.2° C, 4.4° C and 4.4° C.

Metals

Method Filtration: The following samples were not filtered within 15 minutes of sample collection as required by the method: WCR(+0.1) (180-134767-1), WCR(+1.9) (180-134767-2) and WCR(-0.6) (180-134767-3). The samples were filtered prior to analysis at the laboratory, and the results have been reported.

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

Field Service / Mobile Lab

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

Definitions/Glossary

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

Job ID: 180-134767-1

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 Wansley Ash Pond

Job ID: 180-134767-1

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	05-19-22
California	State	2891	04-30-22
Connecticut	State	PH-0688	05-19-22
Florida	NELAP	E871008	05-05-22
Georgia	State	PA 02-00416	04-30-22
Illinois	NELAP	004375	05-19-22
Kansas	NELAP	E-10350	03-30-22
Kentucky (UST)	State	162013	04-30-22
Kentucky (WW)	State	KY98043	05-29-22
Louisiana	NELAP	04041	05-19-22
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	05-19-22
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-04-22
New Jersey	NELAP	PA005	05-19-22
New York	NELAP	11182	03-31-22
North Carolina (WW/SW)	State	434	05-19-22
North Dakota	State	R-227	04-30-22
Oregon	NELAP	PA-2151	05-19-22
Pennsylvania	NELAP	02-00416	04-30-22
Rhode Island	State	LAO00362	12-31-22
South Carolina	State	89014	05-19-22
Texas	NELAP	T104704528	03-31-22
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-19-22
Virginia	NELAP	10043	05-19-22
West Virginia DEP	State	142	05-19-22
Wisconsin	State	998027800	08-31-22

Sample Summary

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

Job ID: 180-134767-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-134767-1	WCR(+0.1)	Water	03/04/22 13:45	03/05/22 09:00
180-134767-2	WCR(+1.9)	Water	03/04/22 12:30	03/05/22 09:00
180-134767-3	WCR(-0.6)	Water	03/04/22 14:10	03/05/22 09:00
180-134767-4	EQUIPMENT BLANK	Water	03/04/22 13:30	03/05/22 09:00
180-134767-5	Dup	Water	03/04/22 00:01	03/05/22 09:00

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Method Summary

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

Job ID: 180-134767-1

Method	Method Description	Protocol	Laboratory
EPA 6020B	Metals (ICP/MS)	SW846	EET PIT
Field Sampling	Field Sampling	EPA	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET PIT
Filtration	Sample Filtration	None	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

None = None

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 Wansley Ash Pond

Job ID: 180-134767-1

Client Sample ID: WCR(+0.1)

Lab Sample ID: 180-134767-1

Date Collected: 03/04/22 13:45

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			250 mL	1.0 mL	391207	03/11/22 06:51	RGM	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	391389	03/12/22 12:43	KFS	EET PIT
Dissolved	Analysis	EPA 6020B		1			391756	03/15/22 14:59	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	391389	03/12/22 12:43	KFS	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			391756	03/15/22 14:55	RSK	EET PIT
Instrument ID: A										
Total/NA	Analysis	Field Sampling		1			391685	03/04/22 13:45	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: WCR(+1.9)

Lab Sample ID: 180-134767-2

Date Collected: 03/04/22 12:30

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			250 mL	1.0 mL	391207	03/11/22 06:51	RGM	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	391389	03/12/22 12:43	KFS	EET PIT
Dissolved	Analysis	EPA 6020B		1			391756	03/15/22 15:21	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	391389	03/12/22 12:43	KFS	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			391756	03/15/22 15:17	RSK	EET PIT
Instrument ID: A										
Total/NA	Analysis	Field Sampling		1			391685	03/04/22 12:30	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: WCR(-0.6)

Lab Sample ID: 180-134767-3

Date Collected: 03/04/22 14:10

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			250 mL	1.0 mL	391207	03/11/22 06:51	RGM	EET PIT
Dissolved	Prep	3005A			25 mL	25 mL	391389	03/12/22 12:43	KFS	EET PIT
Dissolved	Analysis	EPA 6020B		1			391756	03/15/22 15:28	RSK	EET PIT
Instrument ID: A										
Total Recoverable	Prep	3005A			25 mL	25 mL	391389	03/12/22 12:43	KFS	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			391756	03/15/22 15:25	RSK	EET PIT
Instrument ID: A										
Total/NA	Analysis	Field Sampling		1			391685	03/04/22 12:40	FDS	EET PIT
Instrument ID: NOEQUIP										

Lab Chronicle

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

Job ID: 180-134767-1

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 180-134767-4

Date Collected: 03/04/22 13:30

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	391389	03/12/22 12:43	KFS	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			391756	03/15/22 15:32	RSK	EET PIT
Instrument ID: A										

Client Sample ID: Dup

Lab Sample ID: 180-134767-5

Date Collected: 03/04/22 00:01

Matrix: Water

Date Received: 03/05/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	391389	03/12/22 12:43	KFS	EET PIT
Total Recoverable	Analysis	EPA 6020B		1			391756	03/15/22 15:36	RSK	EET PIT
Instrument ID: A										

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: Filtration

RGM = Rebecca Manns

Batch Type: Prep

KFS = Kelly Shannon

Batch Type: Analysis

FDS = Sampler Field

RSK = Robert Kurtz

Client Sample Results

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

Job ID: 180-134767-1

Client Sample ID: WCR(+0.1)

Lab Sample ID: 180-134767-1

Date Collected: 03/04/22 13:45

Matrix: Water

Date Received: 03/05/22 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 14:55	1
Lithium	<0.0050		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 14:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 14:59	1
Lithium	<0.0050		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 14:59	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.26				SU			03/04/22 13:45	1

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Client Sample Results

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

Job ID: 180-134767-1

Client Sample ID: WCR(+1.9)

Lab Sample ID: 180-134767-2

Date Collected: 03/04/22 12:30

Matrix: Water

Date Received: 03/05/22 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 15:17	1
Lithium	<0.0050		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 15:21	1
Lithium	<0.0050		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 15:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.88				SU			03/04/22 12:30	1

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Client Sample Results

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

Job ID: 180-134767-1

Client Sample ID: WCR(-0.6)

Lab Sample ID: 180-134767-3

Date Collected: 03/04/22 14:10

Matrix: Water

Date Received: 03/05/22 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 15:25	1
Lithium	<0.0050		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 15:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 15:28	1
Lithium	<0.0050		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 15:28	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.31				SU			03/04/22 12:40	1

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Client Sample Results

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

Job ID: 180-134767-1

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 180-134767-4

Date Collected: 03/04/22 13:30

Matrix: Water

Date Received: 03/05/22 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 15:32	1
Lithium	<0.0050		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 15:32	1

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Client Sample Results

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

Job ID: 180-134767-1

Client Sample ID: Dup

Lab Sample ID: 180-134767-5

Date Collected: 03/04/22 00:01

Matrix: Water

Date Received: 03/05/22 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0025		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 15:36	1
Lithium	<0.0050		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 15:36	1

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QC Sample Results

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

Job ID: 180-134767-1

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

Lab Sample ID: MB 180-391389/1-A
Matrix: Water
Analysis Batch: 391756

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 391389

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.0025		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 14:12	1
Lithium	<0.0050		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 14:12	1

Lab Sample ID: LCS 180-391389/2-A
Matrix: Water
Analysis Batch: 391756

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 391389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.506		mg/L		101	80 - 120

Lab Sample ID: PB 180-391207/1-C
Matrix: Water
Analysis Batch: 391756

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 391389

Analyte	PB	PB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.0025		0.0025	0.00027	mg/L		03/12/22 12:43	03/15/22 14:16	1
Lithium	<0.0050		0.0050	0.00083	mg/L		03/12/22 12:43	03/15/22 14:16	1

Lab Sample ID: LCS 180-391207/2-C
Matrix: Water
Analysis Batch: 391756

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 391389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.463		mg/L		93	80 - 120

QC Association Summary

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

Job ID: 180-134767-1

Metals

Filtration Batch: 391207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134767-1	WCR(+0.1)	Dissolved	Water	Filtration	
180-134767-2	WCR(+1.9)	Dissolved	Water	Filtration	
180-134767-3	WCR(-0.6)	Dissolved	Water	Filtration	
PB 180-391207/1-C	Method Blank	Dissolved	Water	Filtration	
LCS 180-391207/2-C	Lab Control Sample	Dissolved	Water	Filtration	

Prep Batch: 391389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134767-1	WCR(+0.1)	Dissolved	Water	3005A	391207
180-134767-1	WCR(+0.1)	Total Recoverable	Water	3005A	
180-134767-2	WCR(+1.9)	Dissolved	Water	3005A	391207
180-134767-2	WCR(+1.9)	Total Recoverable	Water	3005A	
180-134767-3	WCR(-0.6)	Dissolved	Water	3005A	391207
180-134767-3	WCR(-0.6)	Total Recoverable	Water	3005A	
180-134767-4	EQUIPMENT BLANK	Total Recoverable	Water	3005A	
180-134767-5	Dup	Total Recoverable	Water	3005A	
MB 180-391389/1-A	Method Blank	Total Recoverable	Water	3005A	
PB 180-391207/1-C	Method Blank	Dissolved	Water	3005A	391207
LCS 180-391207/2-C	Lab Control Sample	Dissolved	Water	3005A	391207
LCS 180-391389/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 391756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134767-1	WCR(+0.1)	Dissolved	Water	EPA 6020B	391389
180-134767-1	WCR(+0.1)	Total Recoverable	Water	EPA 6020B	391389
180-134767-2	WCR(+1.9)	Dissolved	Water	EPA 6020B	391389
180-134767-2	WCR(+1.9)	Total Recoverable	Water	EPA 6020B	391389
180-134767-3	WCR(-0.6)	Dissolved	Water	EPA 6020B	391389
180-134767-3	WCR(-0.6)	Total Recoverable	Water	EPA 6020B	391389
180-134767-4	EQUIPMENT BLANK	Total Recoverable	Water	EPA 6020B	391389
180-134767-5	Dup	Total Recoverable	Water	EPA 6020B	391389
MB 180-391389/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	391389
PB 180-391207/1-C	Method Blank	Dissolved	Water	EPA 6020B	391389
LCS 180-391207/2-C	Lab Control Sample	Dissolved	Water	EPA 6020B	391389
LCS 180-391389/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	391389

Field Service / Mobile Lab

Analysis Batch: 391685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-134767-1	WCR(+0.1)	Total/NA	Water	Field Sampling	
180-134767-2	WCR(+1.9)	Total/NA	Water	Field Sampling	
180-134767-3	WCR(-0.6)	Total/NA	Water	Field Sampling	

Eurofins TestAmerica, Pittsburgh

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

Chain of Custody Record

244-ATLANTA
 eurofins Environment Testing America

Client Information		Sampler: <u>H. Auld</u>		Lab PM: Brown, Shali		Carrier Tracking No(s):		COC No:															
Client Contact: SCS Contacts		Phone: <u>770-594-5998</u>		E-Mail: <u>shali.brown@eurofinset.com</u>				Page:															
Company: GA Power				Analysis Requested				Job #:															
Address: 241 Ralph McGill Blvd SE								Due Date Requested:		Preservation Codes:													
City: Atlanta				TAT Requested (days):		A - HCL		M - Hexane															
State, Zip: GA, 30308				PO #:		B - NaOH		N - None															
Phone: 404-506-7116(Tel)				WO #:		C - Zn Acetate		O - AsNaO2															
Email: SCS Contacts				Project #:		D - Nitric Acid		P - Na2O4S															
Project Name: CCR - Plant Wansley Landfill - Supplemental				SSOW#:		E - NaHSO4		Q - Na2SO3															
Site:				Project #:		F - MeOH		R - Na2S2O3															
Sample Identification				Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers		Other:					
Preservation Code:																		*lab to filter dissolved metals					
WCR(+0.1)				3-4-22		1345		G		Water		N N X		D		1		pH= 7.26					
WCR(+1.9)				3-4-22		1230		G		Water		N N X				2		pH= 6.88					
WCR(-0.6)				3-4-22		1410		G		Water		N N X				2		pH= 7.31					
Equipment Blank				3-4-22		1330		G		W		N N X				1							
Dup				3-4-22		—		G		W		N N X				1							
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																			
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:																			
Empty Kit Relinquished by:				Date:				Time:				Method of Shipment:											
Relinquished by: <u>H. Auld</u>				Date/Time: <u>3-4-22/1706</u>				Company: <u>ACC</u>				Received by: <u>[Signature]</u>				Date/Time: <u>3/4/22 17:06</u>				Company: <u>ETA</u>			
Relinquished by: <u>[Signature]</u>				Date/Time: <u>3/4/22 17:10</u>				Company: <u>EM</u>				Received by: <u>[Signature]</u>				Date/Time: <u>3/5/22 9:00</u>				Company: <u>EST/PAH</u>			
Relinquished by: <u>[Signature]</u>				Date/Time:				Company:				Received by:				Date/Time:				Company:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:															



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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-134767-1

Login Number: 134767

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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

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

Laboratory Job ID: 180-139452-1

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

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
6/29/2022 10:52:25 AM

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

LINKS

Review your project
results through



Have a Question?



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www.eurofinsus.com/Env

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

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

PA Lab ID: 02-00416



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Case Narrative

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

Job ID: 180-139452-1

Job ID: 180-139452-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-139452-1

062922 Revised report to reverse sample ID's for the following samples because the labels were switched during labeling at receipt: WGWC-22 (now 180-139452-6) and WGWC-23 (now 180-139452-5) This report replaces the report previously issued on 062022.

Receipt

The samples were received on 6/9/2022 3:17 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.8°C and 4.4°C

HPLC/IC

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

Metals

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

General Chemistry

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

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 Wansley Ash Pond

Job ID: 180-139452-1

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.

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 Wansley Ash Pond

Job ID: 180-139452-1

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-22
California	State	2891	04-30-22 *
Connecticut	State	PH-0688	09-30-22
Florida	NELAP	E871008	06-30-22
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	06-20-22
Kansas	NELAP	E-10350	03-31-23
Kentucky (UST)	State	162013	04-30-22 *
Kentucky (WW)	State	KY98043	12-31-22
Louisiana	NELAP	04041	06-30-22
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-22
Nevada	State	PA00164	08-31-22
New Hampshire	NELAP	2030	04-04-23
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-01-23
North Carolina (WW/SW)	State	434	12-31-22
North Dakota	State	R-227	04-30-22 *
Oregon	NELAP	PA-2151	02-07-23
Pennsylvania	NELAP	02-00416	04-30-23
Rhode Island	State	LAO00362	12-31-21 *
South Carolina	State	89014	06-30-22
Texas	NELAP	T104704528	03-31-23
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-22 *
Virginia	NELAP	10043	09-14-22
West Virginia DEP	State	142	01-31-23
Wisconsin	State	998027800	08-31-22

Laboratory: Eurofins Edison

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

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0200	09-30-22
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-01-23
Georgia	State	12028 (NJ)	06-30-22
Massachusetts	State	M-NJ312	06-30-23
New Jersey	NELAP	12028	06-30-22
New York	NELAP	11452	04-01-23
Pennsylvania	NELAP	68-00522	02-28-23
Rhode Island	State	LAO00376	12-31-22
USDA	US Federal Programs	P330-20-00244	11-03-23

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

Eurofins Pittsburgh

Sample Summary

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

Job ID: 180-139452-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-139452-1	Dup-1	Water	06/07/22 00:00	06/09/22 15:17
180-139452-2	WGWC-21	Water	06/06/22 16:05	06/09/22 15:17
180-139452-3	EB-1	Water	06/07/22 09:45	06/09/22 15:17
180-139452-4	WGWC-20	Water	06/07/22 10:05	06/09/22 15:17
180-139452-5	WGWC-23	Water	06/06/22 15:05	06/09/22 15:17
180-139452-6	WGWC-22	Water	06/07/22 12:10	06/09/22 15:17
180-139452-7	WGWC-24	Water	06/06/22 13:30	06/09/22 15:17
180-139452-8	WGWC-25	Water	06/07/22 11:10	06/09/22 15:17
180-139452-9	FB-1	Water	06/06/22 13:45	06/09/22 15:17

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Method Summary

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

Job ID: 180-139452-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

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

Laboratory References:

TAL EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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

Lab Chronicle

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

Job ID: 180-139452-1

Client Sample ID: Dup-1

Date Collected: 06/07/22 00:00

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-1

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			850067	06/15/22 13:27	OXG	TAL EDI
Instrument ID: IC 2										
Total Recoverable	Prep	3005A			25 mL	25 mL	401922	06/14/22 11:11	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			402303	06/16/22 14:35	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	401830	06/13/22 17:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			402129	06/15/22 16:36	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	401646	06/10/22 18:17	JCR	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-21

Date Collected: 06/06/22 16:05

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-2

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			850067	06/15/22 13:42	OXG	TAL EDI
Instrument ID: IC 2										
Total/NA	Analysis	300.0		4			850067	06/15/22 16:42	OXG	TAL EDI
Instrument ID: IC 2										
Total Recoverable	Prep	3005A			25 mL	25 mL	401922	06/14/22 11:11	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			402303	06/16/22 14:38	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	401830	06/13/22 17:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			402129	06/15/22 16:37	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	401646	06/10/22 18:17	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			401796	06/06/22 16:05	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-1

Date Collected: 06/07/22 09:45

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			850067	06/15/22 14:12	OXG	TAL EDI
Instrument ID: IC 2										
Total Recoverable	Prep	3005A			25 mL	25 mL	401922	06/14/22 11:11	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			402303	06/16/22 14:42	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	401830	06/13/22 17:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			402129	06/15/22 16:38	RJR	TAL PIT
Instrument ID: HGY										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-139452-1

Client Sample ID: EB-1

Lab Sample ID: 180-139452-3

Date Collected: 06/07/22 09:45

Matrix: Water

Date Received: 06/09/22 15:17

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	401646	06/10/22 18:17	JCR	TAL PIT

Client Sample ID: WGWC-20

Lab Sample ID: 180-139452-4

Date Collected: 06/07/22 10:05

Matrix: Water

Date Received: 06/09/22 15:17

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: IC 2		1			850067	06/15/22 14:27	OXG	TAL EDI
Total/NA	Analysis	300.0 Instrument ID: IC 2		5			850067	06/15/22 16:56	OXG	TAL EDI
Total Recoverable	Prep	3005A			25 mL	25 mL	401922	06/14/22 11:11	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			402303	06/16/22 14:46	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	401830	06/13/22 17:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			402129	06/15/22 16:39	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	401646	06/10/22 18:17	JCR	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			401796	06/07/22 10:05	FDS	TAL PIT

Client Sample ID: WGWC-23

Lab Sample ID: 180-139452-5

Date Collected: 06/06/22 15:05

Matrix: Water

Date Received: 06/09/22 15:17

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: IC 2		1			850067	06/15/22 14:42	OXG	TAL EDI
Total Recoverable	Prep	3005A			25 mL	25 mL	401922	06/14/22 11:11	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B Instrument ID: A		1			402303	06/16/22 14:57	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	401830	06/13/22 17:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			402129	06/15/22 16:40	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	401646	06/10/22 18:17	JCR	TAL PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			401796	06/07/22 12:10	FDS	TAL PIT

Lab Chronicle

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

Job ID: 180-139452-1

Client Sample ID: WGWC-22

Lab Sample ID: 180-139452-6

Date Collected: 06/07/22 12:10

Matrix: Water

Date Received: 06/09/22 15:17

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			850067	06/15/22 14:57	OXG	TAL EDI
Instrument ID: IC 2										
Total Recoverable	Prep	3005A			25 mL	25 mL	401922	06/14/22 11:11	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			402303	06/16/22 15:22	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	401830	06/13/22 17:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			402129	06/15/22 16:41	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	401646	06/10/22 18:17	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			401796	06/06/22 15:05	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-24

Lab Sample ID: 180-139452-7

Date Collected: 06/06/22 13:30

Matrix: Water

Date Received: 06/09/22 15:17

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			850067	06/15/22 15:12	OXG	TAL EDI
Instrument ID: IC 2										
Total Recoverable	Prep	3005A			25 mL	25 mL	401922	06/14/22 11:11	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			402303	06/16/22 15:26	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	401830	06/13/22 17:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			402129	06/15/22 16:42	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	401646	06/10/22 18:17	JCR	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			401796	06/06/22 13:30	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-25

Lab Sample ID: 180-139452-8

Date Collected: 06/07/22 11:10

Matrix: Water

Date Received: 06/09/22 15:17

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			850067	06/15/22 15:27	OXG	TAL EDI
Instrument ID: IC 2										
Total Recoverable	Prep	3005A			25 mL	25 mL	401922	06/14/22 11:11	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			402303	06/16/22 15:29	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	401830	06/13/22 17:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			402129	06/15/22 16:43	RJR	TAL PIT
Instrument ID: HGY										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-139452-1

Client Sample ID: WGWC-25

Lab Sample ID: 180-139452-8

Date Collected: 06/07/22 11:10

Matrix: Water

Date Received: 06/09/22 15:17

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	401647	06/10/22 18:21	JCR	TAL PIT
Total/NA	Analysis	Field Sampling		1			401796	06/07/22 11:10	FDS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-1

Lab Sample ID: 180-139452-9

Date Collected: 06/06/22 13:45

Matrix: Water

Date Received: 06/09/22 15:17

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			850067	06/15/22 15:42	OXG	TAL EDI
Instrument ID: IC 2										
Total Recoverable	Prep	3005A			25 mL	25 mL	401922	06/14/22 11:11	EMR	TAL PIT
Total Recoverable	Analysis	EPA 6020B		1			402303	06/16/22 15:33	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	401830	06/13/22 17:26	RJR	TAL PIT
Total/NA	Analysis	EPA 7470A		1			402129	06/15/22 16:44	RJR	TAL PIT
Instrument ID: HGY										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	401647	06/10/22 18:21	JCR	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:

TAL EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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

Analyst References:

Lab: TAL EDI

Batch Type: Analysis

OXG = Olivia Guerrero

Lab: TAL PIT

Batch Type: Prep

EMR = Elizabeth Rarick

RJR = Ron Rosenbaum

Batch Type: Analysis

FDS = Sampler Field

JCR = Jessica Rodgers

RJR = Ron Rosenbaum

RSK = Robert Kurtz

Client Sample Results

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

Job ID: 180-139452-1

Client Sample ID: Dup-1
Date Collected: 06/07/22 00:00
Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-1
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79		1.0	0.039	mg/L			06/15/22 13:27	1
Fluoride	<0.019		0.10	0.019	mg/L			06/15/22 13:27	1
Sulfate	22		1.0	0.095	mg/L			06/15/22 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		06/14/22 11:11	06/16/22 14:35	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		06/14/22 11:11	06/16/22 14:35	1
Barium	0.35		0.010	0.0031	mg/L		06/14/22 11:11	06/16/22 14:35	1
Beryllium	0.00041	J	0.0025	0.00027	mg/L		06/14/22 11:11	06/16/22 14:35	1
Boron	0.78		0.080	0.060	mg/L		06/14/22 11:11	06/16/22 14:35	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		06/14/22 11:11	06/16/22 14:35	1
Calcium	15		0.50	0.13	mg/L		06/14/22 11:11	06/16/22 14:35	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/14/22 11:11	06/16/22 14:35	1
Cobalt	0.0044		0.0025	0.00026	mg/L		06/14/22 11:11	06/16/22 14:35	1
Lead	<0.00017		0.0010	0.00017	mg/L		06/14/22 11:11	06/16/22 14:35	1
Lithium	0.0044	J	0.0050	0.00083	mg/L		06/14/22 11:11	06/16/22 14:35	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		06/14/22 11:11	06/16/22 14:35	1
Selenium	<0.00074		0.0050	0.00074	mg/L		06/14/22 11:11	06/16/22 14:35	1
Thallium	<0.00047		0.0010	0.00047	mg/L		06/14/22 11:11	06/16/22 14:35	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		06/13/22 17:26	06/15/22 16:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	230		10	10	mg/L			06/10/22 18:17	1

Client Sample Results

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

Job ID: 180-139452-1

Client Sample ID: WGWC-21

Lab Sample ID: 180-139452-2

Date Collected: 06/06/22 16:05

Matrix: Water

Date Received: 06/09/22 15:17

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48		1.0	0.039	mg/L			06/15/22 13:42	1
Fluoride	1.9		0.10	0.019	mg/L			06/15/22 13:42	1
Sulfate	140		4.0	0.38	mg/L			06/15/22 16:42	4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		06/14/22 11:11	06/16/22 14:38	1
Arsenic	0.00083	J	0.0010	0.00028	mg/L		06/14/22 11:11	06/16/22 14:38	1
Barium	0.0079	J	0.010	0.0031	mg/L		06/14/22 11:11	06/16/22 14:38	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		06/14/22 11:11	06/16/22 14:38	1
Boron	0.13		0.080	0.060	mg/L		06/14/22 11:11	06/16/22 14:38	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		06/14/22 11:11	06/16/22 14:38	1
Calcium	58		0.50	0.13	mg/L		06/14/22 11:11	06/16/22 14:38	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/14/22 11:11	06/16/22 14:38	1
Cobalt	0.0010	J	0.0025	0.00026	mg/L		06/14/22 11:11	06/16/22 14:38	1
Lead	<0.00017		0.0010	0.00017	mg/L		06/14/22 11:11	06/16/22 14:38	1
Lithium	0.051		0.0050	0.00083	mg/L		06/14/22 11:11	06/16/22 14:38	1
Molybdenum	0.032		0.015	0.00061	mg/L		06/14/22 11:11	06/16/22 14:38	1
Selenium	<0.00074		0.0050	0.00074	mg/L		06/14/22 11:11	06/16/22 14:38	1
Thallium	<0.00047		0.0010	0.00047	mg/L		06/14/22 11:11	06/16/22 14:38	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		06/13/22 17:26	06/15/22 16:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	670		10	10	mg/L			06/10/22 18:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.69				SU			06/06/22 16:05	1

Client Sample Results

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

Job ID: 180-139452-1

Client Sample ID: EB-1

Lab Sample ID: 180-139452-3

Date Collected: 06/07/22 09:45

Matrix: Water

Date Received: 06/09/22 15:17

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.039		1.0	0.039	mg/L			06/15/22 14:12	1
Fluoride	<0.019		0.10	0.019	mg/L			06/15/22 14:12	1
Sulfate	<0.095		1.0	0.095	mg/L			06/15/22 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		06/14/22 11:11	06/16/22 14:42	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		06/14/22 11:11	06/16/22 14:42	1
Barium	<0.0031		0.010	0.0031	mg/L		06/14/22 11:11	06/16/22 14:42	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		06/14/22 11:11	06/16/22 14:42	1
Boron	<0.060		0.080	0.060	mg/L		06/14/22 11:11	06/16/22 14:42	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		06/14/22 11:11	06/16/22 14:42	1
Calcium	<0.13		0.50	0.13	mg/L		06/14/22 11:11	06/16/22 14:42	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/14/22 11:11	06/16/22 14:42	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		06/14/22 11:11	06/16/22 14:42	1
Lead	<0.00017		0.0010	0.00017	mg/L		06/14/22 11:11	06/16/22 14:42	1
Lithium	<0.00083		0.0050	0.00083	mg/L		06/14/22 11:11	06/16/22 14:42	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		06/14/22 11:11	06/16/22 14:42	1
Selenium	<0.00074		0.0050	0.00074	mg/L		06/14/22 11:11	06/16/22 14:42	1
Thallium	<0.00047		0.0010	0.00047	mg/L		06/14/22 11:11	06/16/22 14:42	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		06/13/22 17:26	06/15/22 16:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			06/10/22 18:17	1

Client Sample Results

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

Job ID: 180-139452-1

Client Sample ID: WGWC-20

Lab Sample ID: 180-139452-4

Date Collected: 06/07/22 10:05

Matrix: Water

Date Received: 06/09/22 15:17

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180		5.0	0.20	mg/L			06/15/22 16:56	5
Fluoride	2.5		0.10	0.019	mg/L			06/15/22 14:27	1
Sulfate	280		5.0	0.48	mg/L			06/15/22 16:56	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		06/14/22 11:11	06/16/22 14:46	1
Arsenic	0.00033	J	0.0010	0.00028	mg/L		06/14/22 11:11	06/16/22 14:46	1
Barium	<0.0031		0.010	0.0031	mg/L		06/14/22 11:11	06/16/22 14:46	1
Beryllium	0.0089		0.0025	0.00027	mg/L		06/14/22 11:11	06/16/22 14:46	1
Boron	2.8		0.080	0.060	mg/L		06/14/22 11:11	06/16/22 14:46	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		06/14/22 11:11	06/16/22 14:46	1
Calcium	140		0.50	0.13	mg/L		06/14/22 11:11	06/16/22 14:46	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/14/22 11:11	06/16/22 14:46	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		06/14/22 11:11	06/16/22 14:46	1
Lead	<0.00017		0.0010	0.00017	mg/L		06/14/22 11:11	06/16/22 14:46	1
Lithium	0.12		0.0050	0.00083	mg/L		06/14/22 11:11	06/16/22 14:46	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		06/14/22 11:11	06/16/22 14:46	1
Selenium	0.0014	J	0.0050	0.00074	mg/L		06/14/22 11:11	06/16/22 14:46	1
Thallium	<0.00047		0.0010	0.00047	mg/L		06/14/22 11:11	06/16/22 14:46	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		06/13/22 17:26	06/15/22 16:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	920		10	10	mg/L			06/10/22 18:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.39				SU			06/07/22 10:05	1

Client Sample Results

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

Job ID: 180-139452-1

Client Sample ID: WGWC-23

Lab Sample ID: 180-139452-5

Date Collected: 06/06/22 15:05

Matrix: Water

Date Received: 06/09/22 15:17

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.1		1.0	0.039	mg/L			06/15/22 14:42	1
Fluoride	0.028	J	0.10	0.019	mg/L			06/15/22 14:42	1
Sulfate	5.3		1.0	0.095	mg/L			06/15/22 14:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0013	J B	0.0020	0.00051	mg/L		06/14/22 11:11	06/16/22 14:57	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		06/14/22 11:11	06/16/22 14:57	1
Barium	0.0097	J	0.010	0.0031	mg/L		06/14/22 11:11	06/16/22 14:57	1
Beryllium	0.0011	J	0.0025	0.00027	mg/L		06/14/22 11:11	06/16/22 14:57	1
Boron	<0.060		0.080	0.060	mg/L		06/14/22 11:11	06/16/22 14:57	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		06/14/22 11:11	06/16/22 14:57	1
Calcium	4.5		0.50	0.13	mg/L		06/14/22 11:11	06/16/22 14:57	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/14/22 11:11	06/16/22 14:57	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		06/14/22 11:11	06/16/22 14:57	1
Lead	<0.00017		0.0010	0.00017	mg/L		06/14/22 11:11	06/16/22 14:57	1
Lithium	0.0020	J	0.0050	0.00083	mg/L		06/14/22 11:11	06/16/22 14:57	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		06/14/22 11:11	06/16/22 14:57	1
Selenium	0.0018	J	0.0050	0.00074	mg/L		06/14/22 11:11	06/16/22 14:57	1
Thallium	<0.00047		0.0010	0.00047	mg/L		06/14/22 11:11	06/16/22 14:57	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		06/13/22 17:26	06/15/22 16:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	90		10	10	mg/L			06/10/22 18:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.73				SU			06/07/22 12:10	1

Client Sample Results

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

Job ID: 180-139452-1

Client Sample ID: WGWC-22

Lab Sample ID: 180-139452-6

Date Collected: 06/07/22 12:10

Matrix: Water

Date Received: 06/09/22 15:17

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.3		1.0	0.039	mg/L			06/15/22 14:57	1
Fluoride	0.37		0.10	0.019	mg/L			06/15/22 14:57	1
Sulfate	96		1.0	0.095	mg/L			06/15/22 14:57	1

Method: 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		06/14/22 11:11	06/16/22 15:22	1
Arsenic	0.00029	J	0.0010	0.00028	mg/L		06/14/22 11:11	06/16/22 15:22	1
Barium	0.025		0.010	0.0031	mg/L		06/14/22 11:11	06/16/22 15:22	1
Beryllium	0.00055	J	0.0025	0.00027	mg/L		06/14/22 11:11	06/16/22 15:22	1
Boron	0.39		0.080	0.060	mg/L		06/14/22 11:11	06/16/22 15:22	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		06/14/22 11:11	06/16/22 15:22	1
Calcium	19		0.50	0.13	mg/L		06/14/22 11:11	06/16/22 15:22	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/14/22 11:11	06/16/22 15:22	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		06/14/22 11:11	06/16/22 15:22	1
Lead	<0.00017		0.0010	0.00017	mg/L		06/14/22 11:11	06/16/22 15:22	1
Lithium	0.0093		0.0050	0.00083	mg/L		06/14/22 11:11	06/16/22 15:22	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		06/14/22 11:11	06/16/22 15:22	1
Selenium	0.0047	J	0.0050	0.00074	mg/L		06/14/22 11:11	06/16/22 15:22	1
Thallium	<0.00047		0.0010	0.00047	mg/L		06/14/22 11:11	06/16/22 15:22	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		06/13/22 17:26	06/15/22 16:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		10	10	mg/L			06/10/22 18:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.41				SU			06/06/22 15:05	1

Client Sample Results

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

Job ID: 180-139452-1

Client Sample ID: WGWC-24

Lab Sample ID: 180-139452-7

Date Collected: 06/06/22 13:30

Matrix: Water

Date Received: 06/09/22 15:17

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41		1.0	0.039	mg/L			06/15/22 15:12	1
Fluoride	0.43		0.10	0.019	mg/L			06/15/22 15:12	1
Sulfate	67		1.0	0.095	mg/L			06/15/22 15:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		06/14/22 11:11	06/16/22 15:26	1
Arsenic	0.00054	J	0.0010	0.00028	mg/L		06/14/22 11:11	06/16/22 15:26	1
Barium	0.032		0.010	0.0031	mg/L		06/14/22 11:11	06/16/22 15:26	1
Beryllium	0.0062		0.0025	0.00027	mg/L		06/14/22 11:11	06/16/22 15:26	1
Boron	0.64		0.080	0.060	mg/L		06/14/22 11:11	06/16/22 15:26	1
Cadmium	0.00030	J	0.0025	0.00022	mg/L		06/14/22 11:11	06/16/22 15:26	1
Calcium	22		0.50	0.13	mg/L		06/14/22 11:11	06/16/22 15:26	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/14/22 11:11	06/16/22 15:26	1
Cobalt	0.042		0.0025	0.00026	mg/L		06/14/22 11:11	06/16/22 15:26	1
Lead	0.00047	J	0.0010	0.00017	mg/L		06/14/22 11:11	06/16/22 15:26	1
Lithium	0.0044	J	0.0050	0.00083	mg/L		06/14/22 11:11	06/16/22 15:26	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		06/14/22 11:11	06/16/22 15:26	1
Selenium	<0.00074		0.0050	0.00074	mg/L		06/14/22 11:11	06/16/22 15:26	1
Thallium	0.00052	J	0.0010	0.00047	mg/L		06/14/22 11:11	06/16/22 15:26	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		06/13/22 17:26	06/15/22 16:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		10	10	mg/L			06/10/22 18:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.52				SU			06/06/22 13:30	1

Client Sample Results

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

Job ID: 180-139452-1

Client Sample ID: WGWC-25

Lab Sample ID: 180-139452-8

Date Collected: 06/07/22 11:10

Matrix: Water

Date Received: 06/09/22 15:17

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	79		1.0	0.039	mg/L			06/15/22 15:27	1
Fluoride	<0.019		0.10	0.019	mg/L			06/15/22 15:27	1
Sulfate	22		1.0	0.095	mg/L			06/15/22 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		06/14/22 11:11	06/16/22 15:29	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		06/14/22 11:11	06/16/22 15:29	1
Barium	0.34		0.010	0.0031	mg/L		06/14/22 11:11	06/16/22 15:29	1
Beryllium	0.00030	J	0.0025	0.00027	mg/L		06/14/22 11:11	06/16/22 15:29	1
Boron	0.78		0.080	0.060	mg/L		06/14/22 11:11	06/16/22 15:29	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		06/14/22 11:11	06/16/22 15:29	1
Calcium	15		0.50	0.13	mg/L		06/14/22 11:11	06/16/22 15:29	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/14/22 11:11	06/16/22 15:29	1
Cobalt	0.0043		0.0025	0.00026	mg/L		06/14/22 11:11	06/16/22 15:29	1
Lead	<0.00017		0.0010	0.00017	mg/L		06/14/22 11:11	06/16/22 15:29	1
Lithium	0.0040	J	0.0050	0.00083	mg/L		06/14/22 11:11	06/16/22 15:29	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		06/14/22 11:11	06/16/22 15:29	1
Selenium	<0.00074		0.0050	0.00074	mg/L		06/14/22 11:11	06/16/22 15:29	1
Thallium	<0.00047		0.0010	0.00047	mg/L		06/14/22 11:11	06/16/22 15:29	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		06/13/22 17:26	06/15/22 16:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	240		10	10	mg/L			06/10/22 18:21	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.32				SU			06/07/22 11:10	1

Client Sample Results

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

Job ID: 180-139452-1

Client Sample ID: FB-1

Lab Sample ID: 180-139452-9

Date Collected: 06/06/22 13:45

Matrix: Water

Date Received: 06/09/22 15:17

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.039		1.0	0.039	mg/L			06/15/22 15:42	1
Fluoride	<0.019		0.10	0.019	mg/L			06/15/22 15:42	1
Sulfate	<0.095		1.0	0.095	mg/L			06/15/22 15:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00051		0.0020	0.00051	mg/L		06/14/22 11:11	06/16/22 15:33	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		06/14/22 11:11	06/16/22 15:33	1
Barium	0.023		0.010	0.0031	mg/L		06/14/22 11:11	06/16/22 15:33	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		06/14/22 11:11	06/16/22 15:33	1
Boron	0.074 J		0.080	0.060	mg/L		06/14/22 11:11	06/16/22 15:33	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		06/14/22 11:11	06/16/22 15:33	1
Calcium	<0.13		0.50	0.13	mg/L		06/14/22 11:11	06/16/22 15:33	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/14/22 11:11	06/16/22 15:33	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		06/14/22 11:11	06/16/22 15:33	1
Lead	<0.00017		0.0010	0.00017	mg/L		06/14/22 11:11	06/16/22 15:33	1
Lithium	<0.00083		0.0050	0.00083	mg/L		06/14/22 11:11	06/16/22 15:33	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		06/14/22 11:11	06/16/22 15:33	1
Selenium	<0.00074		0.0050	0.00074	mg/L		06/14/22 11:11	06/16/22 15:33	1
Thallium	<0.00047		0.0010	0.00047	mg/L		06/14/22 11:11	06/16/22 15:33	1

Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		06/13/22 17:26	06/15/22 16:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			06/10/22 18:21	1

QC Sample Results

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

Job ID: 180-139452-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 460-850067/3
Matrix: Water
Analysis Batch: 850067

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.039		1.0	0.039	mg/L			06/15/22 11:27	1
Fluoride	<0.019		0.10	0.019	mg/L			06/15/22 11:27	1
Sulfate	<0.095		1.0	0.095	mg/L			06/15/22 11:27	1

Lab Sample ID: LCS 460-850067/5
Matrix: Water
Analysis Batch: 850067

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.20	2.89		mg/L		90	90 - 110
Fluoride	1.60	1.57		mg/L		98	90 - 110
Sulfate	4.80	4.62		mg/L		96	90 - 110

Lab Sample ID: LCSD 460-850067/6
Matrix: Water
Analysis Batch: 850067

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.20	2.88		mg/L		90	90 - 110	0	15
Fluoride	1.60	1.57		mg/L		98	90 - 110	0	15
Sulfate	4.80	4.59		mg/L		96	90 - 110	1	15

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

Lab Sample ID: MB 180-401922/1-A
Matrix: Water
Analysis Batch: 402303

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 401922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.000882	J	0.0020	0.00051	mg/L		06/14/22 11:11	06/16/22 14:27	1
Arsenic	<0.00028		0.0010	0.00028	mg/L		06/14/22 11:11	06/16/22 14:27	1
Barium	<0.0031		0.010	0.0031	mg/L		06/14/22 11:11	06/16/22 14:27	1
Beryllium	<0.00027		0.0025	0.00027	mg/L		06/14/22 11:11	06/16/22 14:27	1
Boron	<0.060		0.080	0.060	mg/L		06/14/22 11:11	06/16/22 14:27	1
Cadmium	<0.00022		0.0025	0.00022	mg/L		06/14/22 11:11	06/16/22 14:27	1
Calcium	<0.13		0.50	0.13	mg/L		06/14/22 11:11	06/16/22 14:27	1
Chromium	<0.0015		0.0020	0.0015	mg/L		06/14/22 11:11	06/16/22 14:27	1
Cobalt	<0.00026		0.0025	0.00026	mg/L		06/14/22 11:11	06/16/22 14:27	1
Lead	<0.00017		0.0010	0.00017	mg/L		06/14/22 11:11	06/16/22 14:27	1
Lithium	<0.00083		0.0050	0.00083	mg/L		06/14/22 11:11	06/16/22 14:27	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		06/14/22 11:11	06/16/22 14:27	1
Selenium	<0.00074		0.0050	0.00074	mg/L		06/14/22 11:11	06/16/22 14:27	1
Thallium	<0.00047		0.0010	0.00047	mg/L		06/14/22 11:11	06/16/22 14:27	1

Lab Sample ID: LCS 180-401922/2-A
Matrix: Water
Analysis Batch: 402303

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 401922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.250	0.247		mg/L		99	80 - 120

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QC Sample Results

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

Job ID: 180-139452-1

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

Lab Sample ID: LCS 180-401922/2-A
Matrix: Water
Analysis Batch: 402303

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 401922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	0.917		mg/L		92	80 - 120
Barium	1.00	0.924		mg/L		92	80 - 120
Beryllium	0.500	0.490		mg/L		98	80 - 120
Boron	1.25	1.15		mg/L		92	80 - 120
Cadmium	0.500	0.468		mg/L		94	80 - 120
Calcium	25.0	25.4		mg/L		101	80 - 120
Chromium	0.500	0.461		mg/L		92	80 - 120
Cobalt	0.500	0.468		mg/L		94	80 - 120
Lead	0.500	0.472		mg/L		94	80 - 120
Lithium	0.500	0.456		mg/L		91	80 - 120
Molybdenum	0.500	0.474		mg/L		95	80 - 120
Selenium	1.00	0.942		mg/L		94	80 - 120
Thallium	1.00	0.994		mg/L		99	80 - 120

Lab Sample ID: 180-139452-5 MS
Matrix: Water
Analysis Batch: 402303

Client Sample ID: WGWC-23
Prep Type: Total Recoverable
Prep Batch: 401922

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0013	J B	0.250	0.251		mg/L		100	75 - 125
Arsenic	<0.00028		1.00	0.925		mg/L		93	75 - 125
Barium	0.0097	J	1.00	0.962		mg/L		95	75 - 125
Beryllium	0.0011	J	0.500	0.495		mg/L		99	75 - 125
Boron	<0.060		1.25	1.17		mg/L		93	75 - 125
Cadmium	<0.00022		0.500	0.480		mg/L		96	75 - 125
Calcium	4.5		25.0	29.2		mg/L		99	75 - 125
Chromium	<0.0015		0.500	0.478		mg/L		96	75 - 125
Cobalt	<0.00026		0.500	0.478		mg/L		96	75 - 125
Lead	<0.00017		0.500	0.481		mg/L		96	75 - 125
Lithium	0.0020	J	0.500	0.464		mg/L		92	75 - 125
Molybdenum	<0.00061		0.500	0.482		mg/L		96	75 - 125
Selenium	0.0018	J	1.00	0.937		mg/L		93	75 - 125
Thallium	<0.00047		1.00	0.996		mg/L		100	75 - 125

Lab Sample ID: 180-139452-5 MSD
Matrix: Water
Analysis Batch: 402303

Client Sample ID: WGWC-23
Prep Type: Total Recoverable
Prep Batch: 401922

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.0013	J B	0.250	0.242		mg/L		96	75 - 125	3	20
Arsenic	<0.00028		1.00	0.918		mg/L		92	75 - 125	1	20
Barium	0.0097	J	1.00	0.936		mg/L		93	75 - 125	3	20
Beryllium	0.0011	J	0.500	0.488		mg/L		97	75 - 125	2	20
Boron	<0.060		1.25	1.13		mg/L		91	75 - 125	3	20
Cadmium	<0.00022		0.500	0.472		mg/L		94	75 - 125	2	20
Calcium	4.5		25.0	29.2		mg/L		98	75 - 125	0	20
Chromium	<0.0015		0.500	0.465		mg/L		93	75 - 125	3	20
Cobalt	<0.00026		0.500	0.471		mg/L		94	75 - 125	1	20
Lead	<0.00017		0.500	0.473		mg/L		95	75 - 125	2	20

Eurofins Pittsburgh

QC Sample Results

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

Job ID: 180-139452-1

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

Lab Sample ID: 180-139452-5 MSD
Matrix: Water
Analysis Batch: 402303

Client Sample ID: WGWC-23
Prep Type: Total Recoverable
Prep Batch: 401922

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.0020	J	0.500	0.462		mg/L		92	75 - 125	1	20
Molybdenum	<0.00061		0.500	0.475		mg/L		95	75 - 125	1	20
Selenium	0.0018	J	1.00	0.928		mg/L		93	75 - 125	1	20
Thallium	<0.00047		1.00	0.979		mg/L		98	75 - 125	2	20

Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-401830/1-A
Matrix: Water
Analysis Batch: 402129

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 401830

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00013		0.00020	0.00013	mg/L		06/13/22 17:26	06/15/22 16:24	1

Lab Sample ID: LCS 180-401830/2-A
Matrix: Water
Analysis Batch: 402129

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 401830

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00266		mg/L		106	80 - 120

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

Lab Sample ID: MB 180-401646/2
Matrix: Water
Analysis Batch: 401646

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			06/10/22 18:17	1

Lab Sample ID: LCS 180-401646/1
Matrix: Water
Analysis Batch: 401646

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	251	260		mg/L		104	85 - 115

Lab Sample ID: MB 180-401647/2
Matrix: Water
Analysis Batch: 401647

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			06/10/22 18:21	1

Lab Sample ID: LCS 180-401647/1
Matrix: Water
Analysis Batch: 401647

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	251	262		mg/L		104	85 - 115

Eurofins Pittsburgh

QC Sample Results

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

Job ID: 180-139452-1

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

Lab Sample ID: 180-139452-8 DU
Matrix: Water
Analysis Batch: 401647

Client Sample ID: WGWC-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	240		232		mg/L		5	10

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QC Association Summary

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

Job ID: 180-139452-1

HPLC/IC

Analysis Batch: 850067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-1	Dup-1	Total/NA	Water	300.0	
180-139452-2	WGWC-21	Total/NA	Water	300.0	
180-139452-2	WGWC-21	Total/NA	Water	300.0	
180-139452-3	EB-1	Total/NA	Water	300.0	
180-139452-4	WGWC-20	Total/NA	Water	300.0	
180-139452-4	WGWC-20	Total/NA	Water	300.0	
180-139452-5	WGWC-23	Total/NA	Water	300.0	
180-139452-6	WGWC-22	Total/NA	Water	300.0	
180-139452-7	WGWC-24	Total/NA	Water	300.0	
180-139452-8	WGWC-25	Total/NA	Water	300.0	
180-139452-9	FB-1	Total/NA	Water	300.0	
MB 460-850067/3	Method Blank	Total/NA	Water	300.0	
LCS 460-850067/5	Lab Control Sample	Total/NA	Water	300.0	
LCS D 460-850067/6	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 401830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-1	Dup-1	Total/NA	Water	7470A	
180-139452-2	WGWC-21	Total/NA	Water	7470A	
180-139452-3	EB-1	Total/NA	Water	7470A	
180-139452-4	WGWC-20	Total/NA	Water	7470A	
180-139452-5	WGWC-23	Total/NA	Water	7470A	
180-139452-6	WGWC-22	Total/NA	Water	7470A	
180-139452-7	WGWC-24	Total/NA	Water	7470A	
180-139452-8	WGWC-25	Total/NA	Water	7470A	
180-139452-9	FB-1	Total/NA	Water	7470A	
MB 180-401830/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-401830/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 401922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-1	Dup-1	Total Recoverable	Water	3005A	
180-139452-2	WGWC-21	Total Recoverable	Water	3005A	
180-139452-3	EB-1	Total Recoverable	Water	3005A	
180-139452-4	WGWC-20	Total Recoverable	Water	3005A	
180-139452-5	WGWC-23	Total Recoverable	Water	3005A	
180-139452-6	WGWC-22	Total Recoverable	Water	3005A	
180-139452-7	WGWC-24	Total Recoverable	Water	3005A	
180-139452-8	WGWC-25	Total Recoverable	Water	3005A	
180-139452-9	FB-1	Total Recoverable	Water	3005A	
MB 180-401922/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-401922/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-139452-5 MS	WGWC-23	Total Recoverable	Water	3005A	
180-139452-5 MSD	WGWC-23	Total Recoverable	Water	3005A	

Analysis Batch: 402129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-1	Dup-1	Total/NA	Water	EPA 7470A	401830
180-139452-2	WGWC-21	Total/NA	Water	EPA 7470A	401830

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QC Association Summary

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

Job ID: 180-139452-1

Metals (Continued)

Analysis Batch: 402129 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-3	EB-1	Total/NA	Water	EPA 7470A	401830
180-139452-4	WGWC-20	Total/NA	Water	EPA 7470A	401830
180-139452-5	WGWC-23	Total/NA	Water	EPA 7470A	401830
180-139452-6	WGWC-22	Total/NA	Water	EPA 7470A	401830
180-139452-7	WGWC-24	Total/NA	Water	EPA 7470A	401830
180-139452-8	WGWC-25	Total/NA	Water	EPA 7470A	401830
180-139452-9	FB-1	Total/NA	Water	EPA 7470A	401830
MB 180-401830/1-A	Method Blank	Total/NA	Water	EPA 7470A	401830
LCS 180-401830/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	401830

Analysis Batch: 402303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-1	Dup-1	Total Recoverable	Water	EPA 6020B	401922
180-139452-2	WGWC-21	Total Recoverable	Water	EPA 6020B	401922
180-139452-3	EB-1	Total Recoverable	Water	EPA 6020B	401922
180-139452-4	WGWC-20	Total Recoverable	Water	EPA 6020B	401922
180-139452-5	WGWC-23	Total Recoverable	Water	EPA 6020B	401922
180-139452-6	WGWC-22	Total Recoverable	Water	EPA 6020B	401922
180-139452-7	WGWC-24	Total Recoverable	Water	EPA 6020B	401922
180-139452-8	WGWC-25	Total Recoverable	Water	EPA 6020B	401922
180-139452-9	FB-1	Total Recoverable	Water	EPA 6020B	401922
MB 180-401922/1-A	Method Blank	Total Recoverable	Water	EPA 6020B	401922
LCS 180-401922/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020B	401922
180-139452-5 MS	WGWC-23	Total Recoverable	Water	EPA 6020B	401922
180-139452-5 MSD	WGWC-23	Total Recoverable	Water	EPA 6020B	401922

General Chemistry

Analysis Batch: 401646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-1	Dup-1	Total/NA	Water	SM 2540C	
180-139452-2	WGWC-21	Total/NA	Water	SM 2540C	
180-139452-3	EB-1	Total/NA	Water	SM 2540C	
180-139452-4	WGWC-20	Total/NA	Water	SM 2540C	
180-139452-5	WGWC-23	Total/NA	Water	SM 2540C	
180-139452-6	WGWC-22	Total/NA	Water	SM 2540C	
180-139452-7	WGWC-24	Total/NA	Water	SM 2540C	
MB 180-401646/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-401646/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 401647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-8	WGWC-25	Total/NA	Water	SM 2540C	
180-139452-9	FB-1	Total/NA	Water	SM 2540C	
MB 180-401647/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-401647/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-139452-8 DU	WGWC-25	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 180-139452-1

Field Service / Mobile Lab

Analysis Batch: 401796

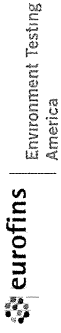
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-2	WGWC-21	Total/NA	Water	Field Sampling	
180-139452-4	WGWC-20	Total/NA	Water	Field Sampling	
180-139452-5	WGWC-23	Total/NA	Water	Field Sampling	
180-139452-6	WGWC-22	Total/NA	Water	Field Sampling	
180-139452-7	WGWC-24	Total/NA	Water	Field Sampling	
180-139452-8	WGWC-25	Total/NA	Water	Field Sampling	

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Eurofins TestAmerica, Pittsburgh

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

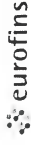
Chain of Custody Record



Client Information Address: 241 Ralph McGill Blvd SE City: Atlanta State: GA Zip: 30308 Phone: 404-506-7116 (Tel) Email: SCS Contacts Project Name: CCR - Plant Wansley Ash Pond Site:			Lab PM: Brown, Shali E-Mail: shali.brown@eurofins.com Carrier Tracking No(s):		COC No: Page: Job #:	
Due Date Requested: TAT Requested (days): RUSH - 5 day TAT on App III Metals, Cl, F, SO4, TDS, and App IV Metals RUSH - 28 day TAT on Radium 226 & 228 PO #: WO #: Project # 18019922 SSOW#			Analysis Requested			
App III Metals: B, Ca App IV Metals (EPA 602/7470): Sp, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mn, Se, Tl Radium 226 & 228 (SW-846 9315/9320)			App I Metals (EPA 300 & SM 2540C): Cl, F, SO4 & TDS (EPA 300 & SM 2540C)			Total Number of Containers:
Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>			Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>			Special Instructions/Note: Major Ions to include Alkalinity, Sulfide, and Metals as listed
Sample Identification Dup-1 W6wC-21 EB-1 W6wC-20 W6wC-22 W6wC-23 W6wC-24 W6wC-25 FB-1			Sample Date 6/7/22 6/6/22 6/7/22 6/7/22 6/6/22 6/6/22 6/7/22 6/6/22		Sample Time --- 1605 0945 1005 1210 1505 1930 1110 1345	
Sample Type (C=comp, G=grab) G G G G G G G G G G			Matrix (W=water, S=solid, O=wastefill, BT=Tissue, A=Air) Water Water Water Water Water Water Water Water Water Water Water		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 X - EDTA Y - EDA 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 checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological			Sample Disposal (A fee may be assessed) - s are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)			Special Instructions/QC Requirements:			
Empty Kit Relinquished by:			Date: _____ Time: _____ Method of Shipment:			
Relinquished by: <i>[Signature]</i>			Date/Time: 6/8/22 10:05		Company: Egn Company	
Relinquished by: <i>[Signature]</i>			Date/Time: 6/8/22 16:00		Company: Egn Company	
Relinquished by: <i>[Signature]</i>			Date/Time: 6/8/22 16:00		Company: Egn Company	
Custody Seal No.: _____ Δ Yes Δ No			Cooler Temperature(s) °C and Other Remarks:			



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Brown, Shali	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 180-463486.1				
Shipping/Receiving		Phone:	E-Mail: Shali.Brown@et.eurofins.com	State of Origin: Georgia	Page: Page 1 of 1				
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note):		Job #: 180-139452-1	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:				
Address: 777 New Durham Road,		Due Date Requested: 6/15/2022	Analysis Requested						
City: Edison		TAT Requested (days):							
State, Zip: NJ, 08817		PO #:							
Phone: 732-549-3900(Tel) 732-549-3679(Fax)		WO #:							
Email:		Project #:							
Plant Name: Plant Wansley Ash Pond		SSOW#:							
Site: Wansley CCR									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wast/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	300_ORGM_28D/ Chloride Fluoride Sulfate	Analysis Requested	Total Number of Containers	Special Instructions/Note:
Dup-1 (180-139452-1)	6/7/22	Eastern	Water	Water	X	X		1	
WGC-21 (180-139452-2)	6/6/22	16:05 Eastern	Water	Water	X	X		1	
EB-1 (180-139452-3)	6/7/22	09:45 Eastern	Water	Water	X	X		1	
WGC-20 (180-139452-4)	6/7/22	10:05 Eastern	Water	Water	X	X		1	
WGC-22 (180-139452-5)	6/7/22	12:10 Eastern	Water	Water	X	X		1	
WGC-23 (180-139452-6)	6/6/22	15:05 Eastern	Water	Water	X	X		1	
WGC-24 (180-139452-7)	6/6/22	13:30 Eastern	Water	Water	X	X		1	
WGC-25 (180-139452-8)	6/7/22	11:10 Eastern	Water	Water	X	X		1	
FB-1 (180-139452-9)	6/6/22	13:45 Eastern	Water	Water	X	X		1	

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: [Signature]	6/14/22	17:00	Carrier
Relinquished by: [Signature]			Company: [Signature]
Relinquished by:			Company:
Custody Seals Intact: 18973891			Cooler Temperature(s) °C and Other Remarks: 39°C 43°C



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-139452-1

Login Number: 139452

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: 180-139452-1

Login Number: 139452

List Number: 3

Creator: Armbruster, Chris

List Source: Eurofins Edison

List Creation: 06/15/22 12:04 PM

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	1897389
Sample custody seals, if present, are intact.	N/A	
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	4.3°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

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

Laboratory Job ID: 180-139452-2

Client Project/Site: Plant Wansley Ash Pond

For:

Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Attn: Kristen N Jurinko



Authorized for release by:
7/11/2022 6:08:55 PM

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

LINKS

Review your project
results through



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

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

PA Lab ID: 02-00416



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Case Narrative

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

Job ID: 180-139452-2

Job ID: 180-139452-2

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-139452-2

Receipt

The samples were received on 6/9/2022 3:17 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.8°C and 4.4°C

Gas Flow Proportional Counter

Method 9315_Ra226: Ra-226 Preparation Batch 160-570281: 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. Dup-1 (180-139452-1), WGWC-21 (180-139452-2), EB-1 (180-139452-3), WGWC-20 (180-139452-4), WGWC-23 (180-139452-5), WGWC-22 (180-139452-6), WGWC-24 (180-139452-7), WGWC-25 (180-139452-8), FB-1 (180-139452-9), (LCS 160-570281/2-A), (MB 160-570281/1-A), (310-233614-D-1-A), (310-233614-C-1-A MS) and (310-233614-D-1-B MSD)

Method 9320_Ra228: Radium-228 batch 570286 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. Dup-1 (180-139452-1), WGWC-21 (180-139452-2), EB-1 (180-139452-3), WGWC-20 (180-139452-4), WGWC-23 (180-139452-5), WGWC-22 (180-139452-6), WGWC-24 (180-139452-7), WGWC-25 (180-139452-8), FB-1 (180-139452-9), (CCB 160-571242/56), (CCB 160-571242/57), (CCB 160-571242/58), (CCB 160-571242/59), (CCB 160-571242/60), (CCB 160-571242/61), (CCB 160-571242/62), (CCB 160-571242/65), (CCB 160-571243/79), (CCB 160-571243/80), (CCB 160-571243/81), (CCB 160-571243/82), (CCVA 160-571242/10), (CCVA 160-571242/33), (CCVA 160-571242/34), (CCVA 160-571242/35), (CCVA 160-571242/36), (CCVA 160-571242/37), (CCVA 160-571242/38), (CCVA 160-571242/39), (CCVA 160-571242/8), (CCVA 160-571243/64), (CCVA 160-571243/65), (CCVA 160-571243/66), (CCVA 160-571243/67), (CCVA 160-571243/68), (CCVB 160-571242/17), (CCVB 160-571242/18), (CCVB 160-571242/19), (CCVB 160-571242/20), (CCVB 160-571242/21), (CCVB 160-571242/22), (CCVB 160-571242/23), (CCVB 160-571242/32), (CCVB 160-571242/42), (CCVB 160-571243/72), (CCVB 160-571243/73), (CCVB 160-571243/74), (CCVB 160-571243/75), (CCVB 160-571243/76), (LCS 160-570286/2-A), (MB 160-570286/1-A), (310-233614-D-1-C), (310-233614-C-1-B MS) and (310-233614-D-1-D 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 Wansley Ash Pond

Job ID: 180-139452-2

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 Wansley Ash Pond

Job ID: 180-139452-2

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

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

Sample Summary

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

Job ID: 180-139452-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-139452-1	Dup-1	Water	06/07/22 00:00	06/09/22 15:17
180-139452-2	WGWC-21	Water	06/06/22 16:05	06/09/22 15:17
180-139452-3	EB-1	Water	06/07/22 09:45	06/09/22 15:17
180-139452-4	WGWC-20	Water	06/07/22 10:05	06/09/22 15:17
180-139452-5	WGWC-23	Water	06/06/22 15:05	06/09/22 15:17
180-139452-6	WGWC-22	Water	06/07/22 12:10	06/09/22 15:17
180-139452-7	WGWC-24	Water	06/06/22 13:30	06/09/22 15:17
180-139452-8	WGWC-25	Water	06/07/22 11:10	06/09/22 15:17
180-139452-9	FB-1	Water	06/06/22 13:45	06/09/22 15:17

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

Method Summary

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

Job ID: 180-139452-2

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

Protocol References:

None = None

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

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

Laboratory References:

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

Lab Chronicle

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

Job ID: 180-139452-2

Client Sample ID: Dup-1

Date Collected: 06/07/22 00:00

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-1

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			1002.63 mL	1.0 g	570281	06/16/22 10:51	MS	TAL SL
Total/NA	Analysis	9315		1			573263	07/08/22 08:14	JCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1002.63 mL	1.0 g	570286	06/16/22 11:20	MS	TAL SL
Total/NA	Analysis	9320		1			571242	06/23/22 13:23	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			573274	07/08/22 19:03	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-21

Date Collected: 06/06/22 16:05

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1005.39 mL	1.0 g	570281	06/16/22 10:51	MS	TAL SL
Total/NA	Analysis	9315		1			573263	07/08/22 08:14	JCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			1005.39 mL	1.0 g	570286	06/16/22 11:20	MS	TAL SL
Total/NA	Analysis	9320		1			571242	06/23/22 13:24	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			573274	07/08/22 19:03	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: EB-1

Date Collected: 06/07/22 09:45

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-3

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			994.18 mL	1.0 g	570281	06/16/22 10:51	MS	TAL SL
Total/NA	Analysis	9315		1			573263	07/08/22 08:14	JCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			994.18 mL	1.0 g	570286	06/16/22 11:20	MS	TAL SL
Total/NA	Analysis	9320		1			571242	06/23/22 13:24	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			573274	07/08/22 19:03	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-20

Date Collected: 06/07/22 10:05

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			993.09 mL	1.0 g	570281	06/16/22 10:51	MS	TAL SL
Total/NA	Analysis	9315		1			573263	07/08/22 08:14	JCB	TAL SL
Instrument ID: GFPCBLUE										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-139452-2

Client Sample ID: WGWC-20

Lab Sample ID: 180-139452-4

Date Collected: 06/07/22 10:05

Matrix: Water

Date Received: 06/09/22 15:17

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			993.09 mL	1.0 g	570286	06/16/22 11:20	MS	TAL SL
Total/NA	Analysis	9320		1			571242	06/23/22 13:24	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			573274	07/08/22 19:03	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-23

Lab Sample ID: 180-139452-5

Date Collected: 06/06/22 15:05

Matrix: Water

Date Received: 06/09/22 15:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			994.91 mL	1.0 g	570281	06/16/22 10:51	MS	TAL SL
Total/NA	Analysis	9315		1			573263	07/08/22 08:14	JCB	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Prep	PrecSep_0			994.91 mL	1.0 g	570286	06/16/22 11:20	MS	TAL SL
Total/NA	Analysis	9320		1			571242	06/23/22 13:24	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			573274	07/08/22 19:03	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-22

Lab Sample ID: 180-139452-6

Date Collected: 06/07/22 12:10

Matrix: Water

Date Received: 06/09/22 15:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1001.35 mL	1.0 g	570281	06/16/22 10:51	MS	TAL SL
Total/NA	Analysis	9315		1			573267	07/08/22 11:37	EMH	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1001.35 mL	1.0 g	570286	06/16/22 11:20	MS	TAL SL
Total/NA	Analysis	9320		1			571242	06/23/22 13:24	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			573274	07/08/22 19:03	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: WGWC-24

Lab Sample ID: 180-139452-7

Date Collected: 06/06/22 13:30

Matrix: Water

Date Received: 06/09/22 15:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1006.53 mL	1.0 g	570281	06/16/22 10:51	MS	TAL SL
Total/NA	Analysis	9315		1			573267	07/08/22 11:37	EMH	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			1006.53 mL	1.0 g	570286	06/16/22 11:20	MS	TAL SL
Total/NA	Analysis	9320		1			571242	06/23/22 13:24	FLC	TAL SL
Instrument ID: GFPCBLUE										

Eurofins Pittsburgh

Lab Chronicle

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

Job ID: 180-139452-2

Client Sample ID: WGWC-24

Date Collected: 06/06/22 13:30

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-7

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			573274	07/08/22 19:03	EMH	TAL SL

Client Sample ID: WGWC-25

Date Collected: 06/07/22 11:10

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-8

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			991.24 mL	1.0 g	570281	06/16/22 10:51	MS	TAL SL
Total/NA	Analysis	9315		1			573267	07/08/22 11:37	EMH	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			991.24 mL	1.0 g	570286	06/16/22 11:20	MS	TAL SL
Total/NA	Analysis	9320		1			571242	06/23/22 13:24	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			573274	07/08/22 19:03	EMH	TAL SL
Instrument ID: NOEQUIP										

Client Sample ID: FB-1

Date Collected: 06/06/22 13:45

Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-9

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			994.91 mL	1.0 g	570281	06/16/22 10:51	MS	TAL SL
Total/NA	Analysis	9315		1			573267	07/08/22 11:37	EMH	TAL SL
Instrument ID: GFPCRED										
Total/NA	Prep	PrecSep_0			994.91 mL	1.0 g	570286	06/16/22 11:20	MS	TAL SL
Total/NA	Analysis	9320		1			571242	06/23/22 13:25	FLC	TAL SL
Instrument ID: GFPCBLUE										
Total/NA	Analysis	Ra226_Ra228		1			573274	07/08/22 19:03	EMH	TAL SL
Instrument ID: NOEQUIP										

Laboratory References:

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

Analyst References:

Lab: TAL SL

Batch Type: Prep

MS = Matthew Swaringam

Batch Type: Analysis

EMH = Elizabeth Hoerchler

FLC = Fernando Cruz

JCB = Jacob Boyd

Client Sample Results

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

Job ID: 180-139452-2

Client Sample ID: Dup-1
 Date Collected: 06/07/22 00:00
 Date Received: 06/09/22 15:17

Lab Sample ID: 180-139452-1
 Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.266		0.0924	0.0955	1.00	0.0894	pCi/L	06/16/22 10:51	07/08/22 08:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					06/16/22 10:51	07/08/22 08:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.155	U	0.294	0.294	1.00	0.505	pCi/L	06/16/22 11:20	06/23/22 13:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					06/16/22 11:20	06/23/22 13:23	1
Y Carrier	88.2		40 - 110					06/16/22 11:20	06/23/22 13:23	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.421	U	0.308	0.309	2.00	0.505	pCi/L		07/08/22 19:03	1

Client Sample Results

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

Job ID: 180-139452-2

Client Sample ID: WGWC-21

Lab Sample ID: 180-139452-2

Date Collected: 06/06/22 16:05

Matrix: Water

Date Received: 06/09/22 15:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.09		0.180	0.206	1.00	0.113	pCi/L	06/16/22 10:51	07/08/22 08:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					06/16/22 10:51	07/08/22 08:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.52		0.396	0.420	1.00	0.427	pCi/L	06/16/22 11:20	06/23/22 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					06/16/22 11:20	06/23/22 13:24	1
Y Carrier	88.6		40 - 110					06/16/22 11:20	06/23/22 13:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.61		0.435	0.468	2.00	0.427	pCi/L		07/08/22 19:03	1

Client Sample Results

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

Job ID: 180-139452-2

Client Sample ID: EB-1

Lab Sample ID: 180-139452-3

Date Collected: 06/07/22 09:45

Matrix: Water

Date Received: 06/09/22 15:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00218	U	0.0549	0.0549	1.00	0.113	pCi/L	06/16/22 10:51	07/08/22 08:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		40 - 110					06/16/22 10:51	07/08/22 08:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0397	U	0.249	0.249	1.00	0.459	pCi/L	06/16/22 11:20	06/23/22 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		40 - 110					06/16/22 11:20	06/23/22 13:24	1
Y Carrier	88.2		40 - 110					06/16/22 11:20	06/23/22 13:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0375	U	0.255	0.255	2.00	0.459	pCi/L		07/08/22 19:03	1

Client Sample Results

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

Job ID: 180-139452-2

Client Sample ID: WGWC-20

Lab Sample ID: 180-139452-4

Date Collected: 06/07/22 10:05

Matrix: Water

Date Received: 06/09/22 15:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.195		0.0834	0.0852	1.00	0.0899	pCi/L	06/16/22 10:51	07/08/22 08:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		40 - 110					06/16/22 10:51	07/08/22 08:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.475		0.276	0.279	1.00	0.387	pCi/L	06/16/22 11:20	06/23/22 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		40 - 110					06/16/22 11:20	06/23/22 13:24	1
Y Carrier	88.6		40 - 110					06/16/22 11:20	06/23/22 13:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.670		0.288	0.292	2.00	0.387	pCi/L		07/08/22 19:03	1

Client Sample Results

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

Job ID: 180-139452-2

Client Sample ID: WGWC-23

Lab Sample ID: 180-139452-5

Date Collected: 06/06/22 15:05

Matrix: Water

Date Received: 06/09/22 15:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.154		0.0948	0.0958	1.00	0.131	pCi/L	06/16/22 10:51	07/08/22 08:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.0		40 - 110					06/16/22 10:51	07/08/22 08:14	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.29		0.450	0.465	1.00	0.555	pCi/L	06/16/22 11:20	06/23/22 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.0		40 - 110					06/16/22 11:20	06/23/22 13:24	1
Y Carrier	89.3		40 - 110					06/16/22 11:20	06/23/22 13:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.45		0.460	0.475	2.00	0.555	pCi/L		07/08/22 19:03	1

Client Sample Results

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

Job ID: 180-139452-2

Client Sample ID: WGWC-22

Lab Sample ID: 180-139452-6

Date Collected: 06/07/22 12:10

Matrix: Water

Date Received: 06/09/22 15:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.58		0.199	0.244	1.00	0.0870	pCi/L	06/16/22 10:51	07/08/22 11:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					06/16/22 10:51	07/08/22 11:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.09		0.527	0.599	1.00	0.449	pCi/L	06/16/22 11:20	06/23/22 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					06/16/22 11:20	06/23/22 13:24	1
Y Carrier	86.4		40 - 110					06/16/22 11:20	06/23/22 13:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	4.67		0.563	0.647	2.00	0.449	pCi/L		07/08/22 19:03	1

Client Sample Results

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

Job ID: 180-139452-2

Client Sample ID: WGWC-24

Lab Sample ID: 180-139452-7

Date Collected: 06/06/22 13:30

Matrix: Water

Date Received: 06/09/22 15:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.229		0.0868	0.0892	1.00	0.0913	pCi/L	06/16/22 10:51	07/08/22 11:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					06/16/22 10:51	07/08/22 11:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.616		0.299	0.304	1.00	0.405	pCi/L	06/16/22 11:20	06/23/22 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					06/16/22 11:20	06/23/22 13:24	1
Y Carrier	87.1		40 - 110					06/16/22 11:20	06/23/22 13:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.845		0.311	0.317	2.00	0.405	pCi/L		07/08/22 19:03	1

Client Sample Results

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

Job ID: 180-139452-2

Client Sample ID: WGWC-25

Lab Sample ID: 180-139452-8

Date Collected: 06/07/22 11:10

Matrix: Water

Date Received: 06/09/22 15:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.234		0.0900	0.0924	1.00	0.0923	pCi/L	06/16/22 10:51	07/08/22 11:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		40 - 110					06/16/22 10:51	07/08/22 11:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.265	U	0.268	0.269	1.00	0.430	pCi/L	06/16/22 11:20	06/23/22 13:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		40 - 110					06/16/22 11:20	06/23/22 13:24	1
Y Carrier	88.6		40 - 110					06/16/22 11:20	06/23/22 13:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.500		0.283	0.284	2.00	0.430	pCi/L		07/08/22 19:03	1

Client Sample Results

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

Job ID: 180-139452-2

Client Sample ID: FB-1

Lab Sample ID: 180-139452-9

Date Collected: 06/06/22 13:45

Matrix: Water

Date Received: 06/09/22 15:17

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0254	U	0.0492	0.0493	1.00	0.0889	pCi/L	06/16/22 10:51	07/08/22 11:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					06/16/22 10:51	07/08/22 11:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0207	U	0.257	0.257	1.00	0.491	pCi/L	06/16/22 11:20	06/23/22 13:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					06/16/22 11:20	06/23/22 13:25	1
Y Carrier	89.0		40 - 110					06/16/22 11:20	06/23/22 13:25	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.00472	U	0.262	0.262	2.00	0.491	pCi/L		07/08/22 19:03	1

QC Sample Results

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

Job ID: 180-139452-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-570281/1-A
Matrix: Water
Analysis Batch: 573267

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570281

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.09386		0.0597	0.0603	1.00	0.0783	pCi/L	06/16/22 10:51	07/08/22 08:09	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	105		40 - 110			06/16/22 10:51	07/08/22 08:09	1		

Lab Sample ID: LCS 160-570281/2-A
Matrix: Water
Analysis Batch: 573267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570281

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
		Result	Qual	Uncert. (2σ+/-)					
Radium-226	11.3	8.958		0.937	1.00	0.0895	pCi/L	79	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	99.3		40 - 110						

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-570286/1-A
Matrix: Water
Analysis Batch: 571243

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570286

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1536	U	0.226	0.227	1.00	0.383	pCi/L	06/16/22 11:20	06/23/22 13:16	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	105		40 - 110			06/16/22 11:20	06/23/22 13:16	1		
Y Carrier	86.0		40 - 110			06/16/22 11:20	06/23/22 13:16	1		

Lab Sample ID: LCS 160-570286/2-A
Matrix: Water
Analysis Batch: 571243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570286

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits
		Result	Qual	Uncert. (2σ+/-)					
Radium-228	8.51	8.596		1.13	1.00	0.414	pCi/L	101	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	99.3		40 - 110						
Y Carrier	87.5		40 - 110						

Eurofins Pittsburgh

QC Association Summary

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

Job ID: 180-139452-2

Rad

Prep Batch: 570281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-1	Dup-1	Total/NA	Water	PrecSep-21	
180-139452-2	WGWC-21	Total/NA	Water	PrecSep-21	
180-139452-3	EB-1	Total/NA	Water	PrecSep-21	
180-139452-4	WGWC-20	Total/NA	Water	PrecSep-21	
180-139452-5	WGWC-23	Total/NA	Water	PrecSep-21	
180-139452-6	WGWC-22	Total/NA	Water	PrecSep-21	
180-139452-7	WGWC-24	Total/NA	Water	PrecSep-21	
180-139452-8	WGWC-25	Total/NA	Water	PrecSep-21	
180-139452-9	FB-1	Total/NA	Water	PrecSep-21	
MB 160-570281/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-570281/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 570286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-139452-1	Dup-1	Total/NA	Water	PrecSep_0	
180-139452-2	WGWC-21	Total/NA	Water	PrecSep_0	
180-139452-3	EB-1	Total/NA	Water	PrecSep_0	
180-139452-4	WGWC-20	Total/NA	Water	PrecSep_0	
180-139452-5	WGWC-23	Total/NA	Water	PrecSep_0	
180-139452-6	WGWC-22	Total/NA	Water	PrecSep_0	
180-139452-7	WGWC-24	Total/NA	Water	PrecSep_0	
180-139452-8	WGWC-25	Total/NA	Water	PrecSep_0	
180-139452-9	FB-1	Total/NA	Water	PrecSep_0	
MB 160-570286/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-570286/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-139452-2

Login Number: 139452

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: 180-139452-2

Login Number: 139452

List Source: Eurofins St. Louis

List Number: 2

List Creation: 06/13/22 01:25 PM

Creator: Worthington, Sierra M

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	



Data Validation Reports

Memorandum

Date: February 10, 2022
To: Adria Reimer
From: Jennifer Pinion
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
TestAmerica Laboratory Job ID 180-132517-1**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of six water samples, one field duplicate sample, one equipment blank and one field blank, collected 11-12 January 2022, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins TestAmerica Pittsburgh, Pennsylvania, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0 R2.1
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives, with the following exceptions. The non-detect TDS results in samples EB-1 and FB-1 were R qualified as rejected due to holding time exceedances. Rejected data should not be used and the remaining qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
180-132517-1	WGWC-20
180-132517-2	WGWC-21
180-132517-3	WGWC-22
180-132517-4	WGWC-23
180-132517-5	WGWC-24

Laboratory IDs	Client IDs
180-132517-6	WGWC-25
180-132517-7	EB-1
180-132517-8	FB-1
180-132517-9	Dup-1

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

Radiochemistry analyses were requested on the chain of custody (COC), but per client email, the radiochemistry analyses will be reported separately.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below)

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ⊗ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 385737). Metals were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank, EB-1 was collected with the sample set. Metals were not detected in the equipment blank above the MDLs, with the following exceptions.

Barium and boron were detected in the equipment blank at estimated concentrations greater than the MDLs and less than the reporting limits (RLs). Therefore, the estimated concentrations of barium and boron in the associated samples were U qualified as not detected at the RL.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWC-21	Barium	0.0076	J	0.010	U	3
WGWC-23	Barium	0.0072	J	0.010	U	3

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWC-23	Boron	0.048	J	0.080	U	3

mg/L-milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.7 Field Blank

One field blank, FB-1 was collected with the sample set. Metals were not detected in the field blank above the MDLs.

1.8 Field Duplicate

One field duplicate sample, Dup-1 was collected with the sample set. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, WGWC-24.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample

- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 **Overall Assessment**

The mercury data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 **Holding Time**

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 **Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 385582). Mercury was not detected in the method blank above the MDL.

2.4 **Matrix Spike/Matrix Spike Duplicate**

MS/MSD pairs were not reported.

2.5 **Laboratory Control Sample**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

2.6 **Equipment Blank**

One equipment blank, EB-1 was collected with the sample set. Mercury was not detected in the equipment blank above the MDL.

2.7 Field Blank

One field blank, FB-1 was collected with the sample set. Mercury was not detected in the field blank above the MDL.

2.8 Field Duplicate

One field duplicate sample, Dup-1 was collected with the sample set. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, WGWC-24.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

Results and sample ID in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0 and TDS by SM 2540C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ⊗ Overall Assessment
- ⊗ Holding Times
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data package are considered usable for supporting project objectives, with the following exceptions. The non-detect TDS results in samples EB-1 and FB-1 were R qualified as rejected due to holding time exceedances. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this data set is 94.2%.

3.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses, with the following exceptions.

Samples Dup-1, EB-1, FB-1, WGWC-21, WGWC-22, WGWC-23, WGWC-24 and WGWC-25 were received in the laboratory and analyzed past the seven-day holding time for TDS analysis. Therefore, the concentrations of TDS in the associated samples were J- qualified as estimated and the non-detect TDS results were R qualified as rejected.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWC-23	Total Dissolved Solids	67	H	67	J-	2
WGWC-25	Total Dissolved Solids	220	H	220	J-	2
WGWC-22	Total Dissolved Solids	270	H	270	J-	2
WGWC-24	Total Dissolved Solids	320	H	320	J-	2
Dup-1	Total Dissolved Solids	340	H	340	J-	2
WGWC-21	Total Dissolved Solids	580	H	580	J-	2
EB-1	Total Dissolved Solids	<10	H	<10	R	2
FB-1	Total Dissolved Solids	<10	H	<10	R	2

mg/L- milligram per liter

H-laboratory flag indicating the sample was prepped or analyzed beyond the specified holding time

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for anions (batch 385392). One method blank was reported for TDS (batch 385537). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair was reported for anions, using sample WGWC-22. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of sulfate in the MS/MSD pair using sample WGWC-22 were low and outside the laboratory specified acceptance criteria. Therefore, the concentration of sulfate in sample WGWC-22 was J- qualified as estimated with a low bias.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWC-22	Sulfate	140	F1	140	J-	4

mg/L-milligrams per liter

F1-laboratory flag indicating the MS and/or MSD recovery exceeds control limits

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS was reported for each analytical batch per analysis. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for TDS, using sample Dup-1. The RPD result was within the laboratory specified acceptance criteria.

3.7 Equipment Blank

One equipment blank, EB-1 was collected with the sample set. The wet chemistry parameters were not detected in the equipment blank above the MDLs.

3.8 Field Blank

One field blank, FB-1 was collected with the sample set. The wet chemistry parameters were not detected in the field blank above the MDLs.

3.9 Field Duplicate

One field duplicate sample, Dup-1 was collected with the sample set. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, WGWC-24.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

**DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team**

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: June 20, 2022
To: Adria Reimer
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Eurofins
Laboratory Job IDs 180-134564-1 Revision 1 and 180-134564-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of six water samples, one field duplicate sample, one equipment blank and one field blank, collected 28 February and 1 March 2022, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins Pittsburgh, Pennsylvania, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0 R2.1
- Sulfide by US EPA Methods 9030B/9034
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Alkalinity by SM 2320B

The samples were analyzed at Eurofins St. Louis; Earth City, Missouri, for the following analytical tests:

- Radium-226 by US EPA Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. Qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
180-134564-1	WGWA-1
180-134564-2	EB-1
180-134564-3	FB-1
180-134564-4	WGWA-2
180-134568-1	WGWA-3

Laboratory ID	Client ID
180-134568-2	WGWA-4
180-134568-3	WGWA-5
180-134568-4	WGWA-6
180-134568-5	Dup-1

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The field pH data included in the laboratory report were not validated.

Laboratory report 180-134564-1 was revised on April 6, 2022, to correct the boron result for WGWA-1 (180-134564-1) and WGWA-6. The revised report was identified as 180-134564-1 Revision 1.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below)

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time

- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 **Overall Assessment**

The metals data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.1 **Analysis Anomaly**

It was noted in the case narrative that beryllium recovered above the upper control limit in a bracketing continuing calibration verification (CCV) in batch 3941051. Since beryllium was not detected in the associated samples, no qualifications were applied to the data.

1.2 **Holding Time**

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 **Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 390792). Metals were not detected in the method blank above the method detection limits (MDLs), with the following exception.

Lead was detected in the method blank at an estimated concentration greater than the MDL and less than the RL. Since lead was not detected in the associated samples, no qualifications were applied to the data.

1.4 **Matrix Spike/Matrix Spike Duplicate (MS/MSD)**

MS/MSD pairs were not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank, EB-1 was collected with the sample set. Metals were not detected in the equipment blank above the MDLs.

1.7 Field Blank

One field blank, FB-1 was collected with the sample set. Metals were not detected in the field blank above the MDLs.

1.8 Field Duplicate

One field duplicate sample, Dup-1 was collected with the sample set. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, WGWA-3, with the following exceptions.

Lithium and manganese were detected at a concentration greater than the MDL in Dup-1 and were not detected in WGWA-3, resulting in noncalculable RPDs. Therefore, based on professional and technical judgment, the lithium and manganese concentrations in Dup-1 were J qualified as estimated and the non-detect lithium and manganese results in WGWA-3 were UJ qualified as estimated less than the MDLs.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWA-3	Lithium	0.00083	U	NC	0.00083	UJ	7
Dup-1	Lithium	0.0013	J		0.0013	J	7
WGWA-3	Manganese	0.0013	U	NC	0.0013	UJ	7
Dup-1	Manganese	0.010	NA		0.010	J	7

mg/L-milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

U-not detected at or above the MDL

NA-not applicable

NC-not calculable

RPD-relative percent difference

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 391543 and 391618). Mercury was not detected in the method blanks above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Equipment Blank

One equipment blank, EB-1 was collected with the sample set. Mercury was not detected in the equipment blank above the MDL.

2.7 Field Blank

One field blank, FB-1 was collected with the sample set. Mercury was not detected in the field blank above the MDL.

2.8 Field Duplicate

One field duplicate sample, Dup-1 was collected with the sample set. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, WGWA-3.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

Results and sample ID in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, sulfide by US EPA methods 9030B/9034, TDS by SM 2540C and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ⊗ Field Blank
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding time for the sulfide analysis of a water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for anions (batch 390542). Two method blanks were reported for sulfide (batches 390502 and 390812) One method blank was reported for TDS (batch 390551). Three method blanks were reported for alkalinity (batches 390904, 391320 and 391369). The wet chemistry parameters were not detected in the method blanks above the MDLs, with the following exception.

Alkalinity (5.54 mg/L) was detected in the method blank in batch 390904 at a concentration greater than the RL. Since alkalinity was either not detected or detected at concentrations greater than ten times the method blank concentration in the associated samples, no qualifications were applied to the data.

3.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair was reported for anions, using sample Dup-1. Two sample set specific MS/MSD pairs were reported for sulfide, using samples WGWA-3 and WGWA-1. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS was reported for each analytical batch per analysis. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for TDS, using sample WGWA-5. Three sample set specific laboratory duplicates were reported for alkalinity, using samples WGWA-4 and WGWA-3. The RPD results were within the laboratory specified acceptance criteria.

3.7 Equipment Blank

One equipment blank, EB-1 was collected with the sample set. The wet chemistry parameters were not detected in the equipment blank above the MDLs, with the following exception.

Sulfide (7.4 mg/L) was detected in EB-1 at a concentration greater than the RL. Since the sulfide concentration in the associated samples were J+ qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

3.8 Field Blank

One field blank, FB-1 was collected with the sample set. The wet chemistry parameters were not detected in the field blank above the MDLs with the following exception.

Sulfide (6.7 mg/L) was detected in FB-1 at a concentration greater than the RL. Therefore, the sulfide concentrations greater than the RL and less than ten times the blank concentration were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WGWA-1	Sulfide	5.8	NA	5.8	J+	3
EB-1	Sulfide	7.4	NA	7.4	J+	3
WGWA-2	Sulfide	5.4	NA	5.4	J+	3
WGWA-3	Sulfide	6.3	NA	6.3	J+	3
WGWA-4	Sulfide	8.9	NA	8.9	J+	3
WGWA-5	Sulfide	9.5	NA	9.5	J+	3
WGWA-6	Sulfide	5.3	NA	5.3	J+	3
Dup-1	Sulfide	5.0	NA	5.0	J+	3

mg/L-milligram per liter

NA-not applicable

3.9 Field Duplicate

One field duplicate sample, Dup-1 was collected with the sample set. Acceptable precision (RPD \leq 20% or the difference between the concentrations $<$ RL) was demonstrated between the field duplicate and the original sample, WGWA-3, with the following exceptions.

The RPD for sulfide in the field duplicate pair was greater than 20%. Therefore, the sulfide concentrations in the field duplicate pair were J qualified as estimated.

Sulfate was detected at an estimated concentration greater than the MDL and less than the RL in WGWA-3 and was not detected in Dup-1, resulting in a noncalculable RPD. Therefore, based on professional and technical judgment, the sulfate concentration in WGWA-3 was J qualified as estimated and the non-detect sulfate result in WGWA-3 was UJ qualified as estimated less than the MDL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
WGWA-3	Sulfate	0.98	J	NC	0.98	J	7
Dup-1	Sulfate	0.76	U		0.76	UJ	7
WGWA-3	Sulfide	6.3	NA	23	6.3	J	7

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
Dup-1	Sulfide	5.0	NA		5.0	J	7

mg/L-milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

U-not detected at or above the MDL

NA-not applicable

NC-not calculable

RPD-relative percent difference

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

4.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

4.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

4.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for the radium-226 data (batch 554072). One method blank was reported for the radium-228 data (batch 554074). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs).

4.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the data.

4.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported for radium-226 and one LCS was reported for radium-228. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

Laboratory duplicates were not reported with the data.

4.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

4.8 Equipment Blank

One equipment blank, EB-1 was collected with the sample set. Radium-226 and Radium-228 were not detected in the equipment blank above the MDCs.

4.9 Field Blank

One field blank, FB-1 was collected with the sample set. Radium-226 and Radium-228 were not detected in the field blank above the MDCs.

4.10 Field Duplicate

One field duplicate sample, Dup-1 was collected with the sample set. Acceptable precision (RER (2σ) < 3) was demonstrated between the field duplicate and the original sample, WGWA-3.

4.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

4.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

**DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team**

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: June 24, 2022
To: Adria Reimer
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Eurofins
Laboratory Job IDs 180-134761-1 Revision 1 and 180-134761-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of sixteen water samples, two field duplicate samples, one equipment blank and two field blanks, collected 3-4 March 2022, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins Pittsburgh, Pennsylvania, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0 R2.1
- Sulfide by US EPA Methods 9030B/9034
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Alkalinity by SM 2320B

The samples were analyzed at Eurofins St. Louis; Earth City, Missouri, for the following analytical tests:

- Radium-226 by US EPA Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. Qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
180-134761-1	WGWC-12
180-134763-2	WGWC-19
180-134763-5	WGWC-10
180-134763-6	WGWC-24
180-134763-7	WGWC-21
180-134763-9	WGWC-23
180-134763-10	WGWC-17
180-134763-11	Dup-3
180-134765-1	DUP-2
180-134765-2	WGWC-15
180-134765-3	WGWC-16

Laboratory ID	Client ID
180-134765-4	WGWA-7
180-134765-5	WGWC-13
180-134765-6	WGWC-14A
180-134765-7	WGWC-11
180-134765-8	FB-2
180-134765-9	WGWC-25
180-134765-10	WGWC-20
180-134765-11	FB-3
180-134766-1	EB-3
180-134766-2	WGWC-22

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The field pH data included in the laboratory report were not validated.

Laboratory report 180-134761-1 was revised on June 23, 2022, to correct laboratory flags. The revised report was identified as 180-134761-1 Revision 1.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below)

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas

where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ⊗ Equipment Blank
- ⊗ Field Blank
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 **Overall Assessment**

The metals data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 **Holding Time**

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 **Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 391233 and 391389). Metals were not detected in the method blanks above the method detection limits (MDLs), with the following exceptions.

Iron was detected in the method blank in batch 391233 at an estimated concentration greater than the MDL and less than the reporting limit (RL). Therefore, the estimated iron concentrations in the associated samples were U qualified as not detected at the RL and the iron concentrations in the associated samples greater than the RL and less than ten times the method blank concentration were J+ qualified as estimated with high biases.

Sodium and manganese were detected in the method blank in batch 391389 at estimated concentrations greater than the MDLs and less than the RLs. Since sodium and manganese were

either not detected or detected at concentrations greater than ten times the method blank concentrations in the associated samples, no qualifications were applied to the data.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWC-19	Iron	0.078	B	0.078	J+	3
WGWC-24	Iron	0.037	J B	0.050	U	3
WGWC-23	Iron	0.033	J B	0.050	U	3
WGWC-15	Iron	0.038	J B	0.050	U	3
WGWC-13	Iron	0.080	B	0.080	J+	3
WGWC-14A	Iron	0.23	B	0.23	J+	3
WGWC-11	Iron	0.084	B	0.084	J+	3
WGWC-25	Iron	0.13	B	0.13	J+	3
DUP-2	Iron	0.029	J B	0.050	U+	3
WGWC-16	Iron	0.050	B	0.050	J	3

mg/L-milligrams per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

B-laboratory flag indicating analyte was detected in both the method blank and sample

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.4 **Matrix Spike/Matrix Spike Duplicate (MS/MSD)**

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MS/MSD pairs were reported, using samples WGWC-12 and EB-3. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 **Laboratory Control Sample (LCS)**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 **Equipment Blank**

Two equipment blanks, EB-2 and EB-3 were collected with the sample set. EB-2 was reported in laboratory report 180-134881-1. Metals were not detected in the equipment blank above the MDLs, with the following exceptions.

Boron was detected in EB-2 at an estimated concentration greater than the MDL and less than the RL. Since the boron concentration in EB-2 was U qualified due to method blank contamination

and based on professional and technical judgment, no additional qualifications were applied to the data.

Arsenic, boron, cadmium, lead and thallium were detected in the EB-3 at estimated concentrations greater than the MDLs and less than the RLs. Since the boron concentration in the equipment blank was U qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the boron data. However, the estimated concentrations of arsenic, cadmium, lead and thallium in the associated samples were U qualified as not detected at the RLs.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWC-12	Arsenic	0.00037	J	0.0010	U	3
WGWC-12	Lead	0.00033	J	0.0010	U	3
Dup-3	Arsenic	0.00028	J	0.0010	U	3
WGWC-20	Arsenic	0.00078	J	0.0010	U	3
WGWC-22	Arsenic	0.00046	J	0.0010	U	3
WGWC-22	Cadmium	0.00025	J	0.0025	U	3
WGWC-22	Lead	0.00036	J	0.0010	U	3
WGWC-22	Thallium	0.00047	J	0.0010	U	3

mg/L-milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

1.7 Field Blank

Two field blanks, FB-2 and FB-3 were collected with the sample set. Metals were not detected in the field blanks above the MDLs, with the following exception.

Boron (0.065 mg/L) was detected in FB-3 at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated concentration of boron in EB-3 was U qualified as not detected at the RL. In addition, based on professional and technical judgment the boron concentrations in WGWC-22 and WGWC-25 were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
EB-3	Boron	0.075	J	0.080	U	3
WGWC-22	Boron	0.41	NA	0.41	J+	3
WGWC-25	Boron	0.72	NA	0.72	J+	3

mg/L-milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

NA-not applicable

1.8 Field Duplicate

Two field duplicate samples, DUP-2 and Dup-3 were collected with the sample set. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, WGWC-16 and WGWC-17, respectively, with the following exceptions.

Iron was detected in WGWC-16 at a concentration greater than the RL and was detected in DUP-2 at an estimated concentration greater than the MDL and less than the RL, resulting in a noncalculable RPD. Therefore, based on professional and technical judgment, the iron concentrations in WGWC-16 and DUP-2 were J qualified as estimated.

Arsenic was not detected in WGWC-17 and was detected in Dup-3 at an estimated concentration greater than the MDL and less than the RL, resulting in a noncalculable RPD. Since the arsenic concentration in Dup-3 was U qualified as not detected due to equipment blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Cobalt was detected in WGWC-17 at an estimated concentration greater than the MDL and less than the RL and was not detected in Dup-3, resulting in a noncalculable RPD. Therefore, based on professional and technical judgment, the cobalt concentration in WGWC-17 was J qualified as estimated and the non-detect cobalt result in Dup-3 was UJ qualified as estimated less than the MDL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
WGWC-16	Iron	0.050	B	NC	0.050	J	7
DUP-2	Iron	0.029	J B		0.029	J	7
WGWC-17	Cobalt	0.00026	J	NC	0.00026	J	7
Dup-3	Cobalt	0.00026	U		0.00026	UJ	7

mg/L-milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

U-not detected at or above the MDL

B-laboratory flag indicating analyte was detected in both the method blank and sample

NC-not calculable

RPD-relative percent difference

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 391840, 391862 and 391865). Mercury was not detected in the method blanks above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair was reported, using sample DUP-2. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Equipment Blank

Two equipment blanks, EB-2 and EB-3 were collected with the sample set. EB-2 was reported in laboratory report 180-134881-1. Mercury was not detected in the equipment blanks above the MDL.

2.7 Field Blank

Two field blanks, FB-2 and FB-3 were collected with the sample set. Mercury was not detected in the field blanks above the MDL.

2.8 Field Duplicate

Two field duplicate samples, DUP-2 and Dup-3 were collected with the sample set. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, WGWC-16 and WGWC-17, respectively.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

Results and sample ID in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, sulfide by US EPA methods 9030B/9034, TDS by SM 2540C and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ⊗ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ⊗ Equipment Blank
- ⊗ Field Blank
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding time for the sulfide analysis of a water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five method blanks were reported for anions (batches 390804, 390909, 391414, 391628 and 392292). Two method blanks were reported for sulfide (batches 390812 and 390813) Three method blanks were reported for TDS (batches 390883, 391026 and 391040). Three method blanks were reported for alkalinity (batches 390904, 391320 and 391369). The wet chemistry parameters were not detected in the method blanks above the MDLs, with the following exception.

Alkalinity (5.54 mg/L) was detected in the method blank in batch 390904 at a concentration greater than the RL. Therefore, the concentrations of total alkalinity and bicarbonate alkalinity in the associated samples greater than the RL and less than ten times the method blank contamination were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWC-13	Bicarbonate Alkalinity as CaCO ₃	28	NA	28	J+	3
WGWC-13	Total Alkalinity as CaCO ₃ to pH 4.5	28	NA	28	J+	3
WGWC-14A	Bicarbonate Alkalinity as CaCO ₃	11	NA	11	J+	3
WGWC-14A	Total Alkalinity as CaCO ₃ to pH 4.5	11	NA	11	J+	3
WGWC-11	Bicarbonate Alkalinity as CaCO ₃	8.3	NA	8.3	J+	3
WGWC-11	Total Alkalinity as CaCO ₃ to pH 4.5	8.3	NA	8.3	J+	3

mg/L- milligram per liter

NA-not applicable

3.4 Matrix Spike/Matrix Spike Duplicate

Three sample set specific MS/MSD pairs were reported for anions, using samples DUP-2, WGWC-22 and WGWC-19. One sample set specific MS/MSD pair was reported for sulfide, using sample WGWC-11. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The MSD recoveries of chloride and sulfate in the MS/MSD pair using sample DUP-2 were low and outside of the laboratory specified acceptance criteria. Therefore, the chloride and sulfate concentrations in sample DUP-2 were J- qualified as estimated with low biases.

The MS recovery of sulfate in the MS/MSD pair using sample WGWC-22 was low and outside of the laboratory specified acceptance criteria. Therefore, the sulfate concentration in sample WGWC-22 was J- qualified as estimated with a low bias.

The MSD recoveries of chloride and fluoride in the MS/MSD pair using sample WGWC-22 were high and outside of the laboratory specified acceptance criteria. Therefore, the chloride and fluoride concentrations in sample WGWC-22 were J+ qualified as estimated with high biases.

One or both the recoveries of chloride, fluoride and sulfate in the MS/MSD pair using sample WGWC-19 were high and outside of the laboratory specified acceptance criteria. Therefore, the chloride, fluoride and sulfate concentrations in sample WGWC-19 were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWC-19	Chloride	3.2	F1	3.2	J+	4
WGWC-19	Sulfate	4.8	F1	4.8	J+	4
WGWC-19	Fluoride	0.40	F1	0.40	J+	4
DUP-2	Chloride	41	F1	41	J-	4
DUP-2	Sulfate	55	F1	55	J-	4
WGWC-22	Chloride	5.3	F1	5.3	J+	4
WGWC-22	Sulfate	150	F1	150	J-	4
WGWC-22	Fluoride	0.42	F1	0.42	J+	4

mg/L- milligram per liter

F1-laboratory flag indicating the MS and/or MSD recovery was outside the limits

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS was reported for each analytical batch per analysis. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for TDS, using sample WGWC-21. Three sample set specific laboratory duplicates were reported for alkalinity, using samples WGWC-13, FB-2 and WGWC-17. The RPD results were within the laboratory specified acceptance criteria.

3.7 Equipment Blank

Two equipment blanks, EB-2 and EB-3 were collected with the sample set. EB-2 was reported in laboratory report 180-134881-1. The wet chemistry parameters were not detected in the equipment blanks above the MDLs, with the following exceptions.

Fluoride and sulfate were detected in EB-2 at estimated concentrations greater than the MDLs and less than the RLs. Since the fluoride concentration in EB-2 was U qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the fluoride data. However, the sulfate concentrations in the associated samples greater than RL and less than ten times the equipment blank concentration were J+ qualified as estimated with high biases.

Sulfide (3.4 mg/L) was detected in EB-2 at a concentration greater than the RL. Since the sulfide concentration in the associated samples were J+ qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

Sulfate (1.2 mg/L) was detected in the EB-3 at a concentration greater than the RL. Therefore, the sulfate concentrations in the associated samples greater than RL and less than ten times the equipment blank concentration were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WGWC-10	Sulfate	2.0	NA	2.0	J+	3
WGWC-11	Sulfate	2.3	NA	2.3	J+	3
WGWC-13	Sulfate	3.0	NA	3.0	J+	3
WGWC-14A	Sulfate	1.3	NA	1.3	J+	3
WGWC-19	Sulfate	4.8	NA	4.8	J+	3
WGWC-23	Sulfate	5.0	NA	5.0	J+	3
WGWC-17	Sulfate	3.6	NA	3.6	J+	3
Dup-3	Sulfate	3.4	NA	3.4	J+	3

mg/L- milligram per liter

NA-not applicable

3.8 Field Blank

Two field blanks, FB-2 and FB-3 were collected with the sample set. The wet chemistry parameters were not detected in the field blanks above the MDLs.

Fluoride was detected in FB-2 at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated concentrations of fluoride in the associated samples were U qualified as not detected at the RL and the fluoride concentrations in associated samples greater

than the RL and less than ten times the field blank concentration were J+ qualified as estimated with high biases.

Sulfide (4.4 mg/L) was detected in FB-2 at a concentration greater than the RL. Therefore, the concentrations of sulfide in the associated samples greater than the RL and less than ten times the field blank concentration were J+ qualified as estimated with high biases.

Fluoride and sulfide were detected in FB-3 at estimated concentrations greater than the MDLs and less than the RLs. Therefore, the estimated concentrations of fluoride and sulfide in the associated samples were U qualified as not detected at the RLs and the fluoride and sulfide concentrations in associated samples greater than the RL and less than ten times the field blank concentration were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWC-12	Fluoride	0.068	J	0.068	U	3
WGWC-19	Fluoride	0.40	F1	0.40	J+	3
WGWC-19	Sulfide	4.5	NA	4.5	J+	3
WGWC-10	Fluoride	0.067	J	0.10	U	3
WGWC-10	Sulfide	8.1	NA	8.1	J+	3
WGWC-24	Sulfide	4.3	NA	4.3	J+	3
WGWC-21	Sulfide	6.2	NA	6.2	J+	3
WGWC-23	Fluoride	0.045	J	0.045	U	3
WGWC-23	Sulfide	3.9	NA	3.9	J+	3
WGWC-17	Fluoride	0.060	J	0.060	U	3
WGWC-17	Sulfide	3.1	NA	3.1	J+	3
Dup-3	Fluoride	0.055	J	0.055	U	3
Dup-3	Sulfide	4.6	NA	4.6	J+	3
DUP-2	Fluoride	0.056	J	0.10	U	3
WGWC-15	Sulfide	3.0	NA	3.0	J+	3
WGWC-16	Fluoride	0.067	J	0.10	U	3
WGWA-7	Fluoride	0.038	J	0.10	U	3
WGWA-7	Sulfide	5.3	NA	5.3	J+	3
WGWC-13	Fluoride	0.21	NA	0.21	J+	3
WGWC-13	Sulfide	4.3	NA	4.3	J+	3
WGWC-14A	Fluoride	0.057	J	0.10	U	3
WGWC-14A	Sulfide	3.5	NA	3.5	J+	3
WGWC-11	Fluoride	0.055	J	0.10	U	3
WGWC-11	Sulfide	4.6	NA	4.6	J+	3
WGWC-25	Fluoride	0.038	J	0.038	U	3
WGWC-20	Sulfide	2.6	J	3.0	U	3
WGWC-22	Sulfide	5.1	NA	5.1	J+	3

mg/L- milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

F1-laboratory flag indicating the MS and/or MSD recovery was outside the limits

NA-not applicable

3.9 Field Duplicate

Two field duplicate samples, DUP-2 and Dup-3 were collected with the sample set. Acceptable precision ($RPD \leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicates and the original samples, WGWC-16 and WGWC-17, respectively, with the following exceptions.

The RPDs of sulfide and TDS in the field duplicate pair WGWC-17/Dup-3 were greater than 20%. Therefore, the sulfide and TDS concentrations in WGWC-17 and Dup-3 were J qualified as estimated.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
WGWC-17	Sulfide	3.1	NA	39	3.1	J	7
Dup-3	Sulfide	4.6	NA		4.6	J	7
WGWC-17	TDS	55	NA	55	55	J	7
Dup-3	TDS	97	NA		97	J	7

mg/L-milligram per liter

NA-not applicable

RPD-relative percent difference

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

4.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ⊗ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

4.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

4.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported for the radium-226 data (batches 554529 and 554557). Three method blanks were reported for the radium-228 data (batches 554539, 558075 and 591208). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs), with the following exceptions.

Radium-228 was detected in the method blank in batches 554539 (0.6702 pCi/L) and 558078 (0.3960 pCi/L) at concentrations greater than the MDCs. Therefore, the radium-228 concentrations in the associated samples greater than the MDCs and less than the method blank contamination were U qualified as not detected at the reported concentration. In addition, based on professional and technical judgment, the combined radium concentration in sample WGWC-1A was J+ qualified as estimated with a high bias and the combined radium concentration in sample WGWC-25 was U qualified as not detected at the reported concentration.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
WGWC-12	Radium-228	0.413	NA	0.413	J+	3
WGWC-12	Combined Radium 226 + 228	0.408	NA	0.408	J+	3
WGWC-19	Radium-228	0.936	*	0.936	J+	3
WGWC-19	Combined Radium 226 + 228	0.909	NA	0.909	J+	3
WGWC-10	Radium-228	0.549	*	0.549	J+	3
WGWC-10	Combined Radium 226 + 228	0.587	NA	0.587	J+	3
DUP-2	Radium-228	0.568	*	0.568	J+	3
DUP-2	Combined Radium 226 + 228	0.697	NA	0.697	J+	3
WGWC-16	Radium-228	0.43	*	0.43	J+	3
WGWC-16	Combined Radium 226 + 228	0.573	NA	0.573	J+	3
WGWC-13	Radium-228	0.548	*	0.548	J+	3
WGWC-13	Combined Radium 226 + 228	0.621	NA	0.621	J+	3
WGWC-14A	Radium-228	0.582	*	0.582	J+	3
WGWC-14A	Combined Radium 226 + 228	0.956	NA	0.956	J+	3
WGWC-11	Radium-228	0.586	*	0.586	J+	3
WGWC-11	Combined Radium 226 + 228	0.622	NA	0.622	J+	3
FB-2	Radium-228	0.418	*	0.418	J+	3
WGWC-20	Radium-228	0.756	*	0.756	J+	3
WGWC-20	Combined Radium 226 + 228	0.925	NA	0.925	J+	3

pCi/L-picocuries per liter

*-laboratory flag indicating the LCS recovery was outside the laboratory limits

NA-not applicable

4.4 **Matrix Spike/Matrix Spike Duplicate (MS/MSD)**

MS/MSD pairs were not reported with the data.

4.5 **Laboratory Control Sample (LCS)**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS and one LCS/LCS duplicate (LCSD) pair were reported for radium-226 and one LCS and two LCS/LCSD pairs were reported for radium-228. The recovery and RER results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of radium-228 in the LCS/LCSD pair in batch 554539 were high and outside of the laboratory specified acceptance criteria. Therefore, the radium-228 and combined radium concentrations in the associated samples were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	Reason Code
WGWC-19	Radium-228	0.936	*	0.936	J+	5
WGWC-19	Combined Radium 226 + 228	0.909	NA	0.909	J+	5
WGWC-10	Radium-228	0.549	*	0.549	J+	5
WGWC-10	Combined Radium 226 + 228	0.587	NA	0.587	J+	5
DUP-2	Radium-228	0.568	*	0.568	J+	5
DUP-2	Combined Radium 226 + 228	0.697	NA	0.697	J+	5
WGWC-16	Radium-228	0.43	*	0.43	J+	5
WGWC-16	Combined Radium 226 + 228	0.573	NA	0.573	J+	5
WGWC-13	Radium-228	0.548	*	0.548	J+	5
WGWC-13	Combined Radium 226 + 228	0.621	NA	0.621	J+	5
WGWC-14A	Radium-228	0.582	*	0.582	J+	5
WGWC-14A	Combined Radium 226 + 228	0.956	NA	0.956	J+	5
WGWC-11	Radium-228	0.586	*	0.586	J+	5
WGWC-11	Combined Radium 226 + 228	0.622	NA	0.622	J+	5
FB-2	Radium-228	0.418	*	0.418	J+	5
WGWC-20	Radium-228	0.756	*	0.756	J+	5
WGWC-20	Combined Radium 226 + 228	0.925	NA	0.925	J+	5

pCi/L-picocuries per liter

*-laboratory flag indicating the LCS recovery was outside the laboratory limits

NA-not applicable

4.6 Laboratory Duplicate

Laboratory duplicates were not reported with the data.

4.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

4.8 Equipment Blank

Two equipment blanks, EB-2 and EB-3 were collected with the sample set. EB-2 was reported in laboratory report 180-134881-1. Radium-226 and Radium-228 were not detected in the equipment blanks above the MDCs.

4.9 Field Blank

Two field blanks, FB-2 and FB-3 were collected with the sample set. Radium-226 and Radium-228 were not detected in the field blank above the MDCs.

4.10 Field Duplicate

Two field duplicate samples, DUP-2 and Dup-3 were collected with the sample set. Acceptable precision ($RER (2\sigma) < 3$) was demonstrated between the field duplicates and the original samples, WGWC-16 and WGWC-17, respectively.

4.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

The radium-228 result in sample Dup-3 was flagged G to indicate the MDC exceeded the requested reporting limit.

4.12 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

**DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team**

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: June 21, 2022
To: Adria Reimer
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Eurofins
Laboratory Job IDs 180-134881-1 and 180-134881-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of three water samples and one equipment blank, collected 3 March 2022, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins Pittsburgh, Pennsylvania, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0 R2.1
- Sulfide by US EPA Methods 9030B/9034
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Alkalinity by SM 2320B

The samples were analyzed at Eurofins St. Louis; Earth City, Missouri, for the following analytical tests:

- Radium-226 by US EPA Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. Qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
180-134881-1	WGWA-18
180-134881-2	WGWC-8

Laboratory ID	Client ID
180-134881-3	WGWC-9
180-134881-4	EB-2

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The field pH data included in the laboratory report were not validated.

The laboratory noted the sample container for sample WGWA-18 was noted as GWA-18 on the sample container. The sample was logged in per the chain of custody (COC).

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below)

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample

- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 391645). Metals were not detected in the method blank above the method detection limits (MDLs), with the following exception.

Boron was detected in the method blank at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated boron concentration in the associated sample was U qualified as not detected at the RL and the boron concentrations in the associated samples greater than the RL and less than ten times the method blank concentration were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
EB-2	Boron	0.066	J B	0.080	U	3
WGWA-18	Boron	0.10	B	0.10	J+	3
WGWC-9	Boron	0.62	B	0.62	J+	3

mg/L-milligrams per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

B-laboratory flag indicating analyte was detected in both the method blank and sample

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank, EB-2 was collected with the sample set. Metals were not detected in the equipment blank above the MDLs, with the following exceptions.

Boron was detected in the EB-2 at an estimated concentration greater than the MDL and less than the RL. Since the boron concentration in the EB-2 was U qualified due to method blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

1.7 Field Blank

One field blank, FB-2 was collected with the sample set. FB-2 was reported in 180-134761-1. Metals were not detected in the field blank above the MDLs.

1.8 Field Duplicate

Field duplicates were not collected with the sample set.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 **Overall Assessment**

The mercury data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 **Holding Time**

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 **Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 392235). Mercury was not detected in the method blank above the MDL.

2.4 **Matrix Spike/Matrix Spike Duplicate**

MS/MSD pairs were not reported.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

2.6 Equipment Blank

One equipment blank, EB-2 was collected with the sample set. Metals were not detected in the equipment blank above the MDLs.

2.7 Field Blank

One field blank, FB-2 was collected with the sample set. FB-2 was reported in 180-134761-1. Mercury was not detected in the field blank above the MDL.

2.8 Field Duplicate

Field duplicates were not collected with the sample set.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

Results and sample ID in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0, sulfide by US EPA methods 9030B/9034, TDS by SM 2540C and alkalinity by SM 2320B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank

- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ⊗ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding time for the sulfide analysis of a water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for anions (batch 391628). One method blank was reported for sulfide (batch 391154) One method blank was reported for TDS (batch 391178). One method blank was reported for alkalinity (batch 391369). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair was reported for anions, using samples WGWA-18. One sample set specific MS/MSD pair was reported for sulfide, using sample WGWA-18. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The MS recoveries of chloride, fluoride and sulfate in the MS/MSD pair using sample WGWA-18 were high and outside of the laboratory specified acceptance criteria. Therefore, the chloride and sulfate concentrations in sample WGWA-18 were J+ qualified as estimated with high biases. Since the fluoride concentration in sample WGWA-18 was U qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the fluoride data.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WGWA-18	Chloride	2.0	F1	2.0	J+	4
WGWA-18	Sulfate	8.5	F1	8.5	J+	4

mg/L- milligram per liter

F1-laboratory flag indicating the MS and/or MSD recovery was outside the limits

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS was reported for each analytical batch per analysis. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Two sample set specific laboratory duplicates were reported for alkalinity, using samples WGWC-8 and EB-2. The RPD results were within the laboratory specified acceptance criteria.

3.7 Equipment Blank

One equipment blank, EB-2 was collected with the sample set. Wet chemistry parameters were not detected in the equipment blank above the MDLs, with the following exceptions.

Fluoride and sulfate were detected in EB-2 at estimated concentrations greater than the MDLs and less than the RLs. Since the fluoride concentration in EB-2 was U qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the fluoride data. Since the sulfate concentrations in the associated samples were greater than ten times the equipment blank concentration and based on professional and technical judgment, no qualifications were applied to the sulfate data.

Sulfide (3.4 mg/L) was detected in EB-2 at a concentration greater than the RL. Since the sulfide concentration in the associated samples were J+ qualified due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

3.8 Field Blank

One field blank, FB-2 was collected with the sample set. FB-2 was reported in 180-134761-1. The wet chemistry parameters were not detected in the field blank above the MDLs.

Fluoride was detected in FB-2 at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated concentrations of fluoride in the associated samples were U qualified as not detected at the RL and the fluoride concentration in associated sample greater than the RL and less than ten times the field blank concentration was J+ qualified as estimated with high biases.

Sulfide (4.4 mg/L) was detected in FB-2 at a concentration greater than the RL. Therefore, the estimated sulfide concentrations in the associated samples were U qualified as not detected at the RL and the concentration of sulfide in the associated sample greater than the RL and less than ten times the field blank concentration was J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
EB-2	Fluoride	0.043	J	0.10	U	3
EB-2	Sulfide	3.4	NA	3.4	J+	3
WGWA-18	Fluoride	0.078	J F1	0.10	U	3
WGWA-18	Sulfide	2.4	J	3.0	U	3
WGWC-8	Fluoride	0.19	NA	0.19	J+	3
WGWC-9	Sulfide	2.6	J	3.0	U	3

mg/L- milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

F1-laboratory flag indicating the MS and/or MSD recovery was outside the limits

NA-not applicable

3.9 Field Duplicate

Field duplicates were not collected with the sample set.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

4.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

4.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

4.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for the radium-226 data (batch 555104). One method blank was reported for the radium-228 data (batch 555108). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs).

4.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the data.

4.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported for radium-226 and one LCS was reported for radium-228. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

Laboratory duplicates were not reported with the data.

4.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

4.8 Equipment Blank

One equipment blank, EB-2 was collected with the sample set. Radium-226 and Radium-228 were not detected in the equipment blank above the MDCs.

4.9 Field Blank

One field blank, FB-2 was collected with the sample set. FB-2 was reported in 180-134761-2. Radium-226 and Radium-228 were not detected in the field blank above the MDCs.

4.10 Field Duplicate

Field duplicates were not collected with the sample set.

4.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

The radium-228 result in sample Dup-3 was flagged G to indicate the MDC exceeded the requested reporting limit.

4.12 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

**DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team**

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

LEVEL 2A LABORATORY DATA VALIDATIONS

Wansley Ash Pond

Risk Surface Water Sample Analytical

March 2022

Georgia Power Company – Wansley Ash Pond

Quality Control Review of Analytical Data – March 2022

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins Environment Testing America, Pittsburgh for surface water samples collected at Wansley Ash Pond March 4, 2022. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

Information regarding the primary sample location, analytical parameter, QC samples, sampling date, and laboratory sample delivery group (SDG) designation is summarized in Table 1 of this Appendix.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the supplemental surface water samples were analyzed for select assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. The test method included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B).

Data were reviewed in accordance with the USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, accuracy (laboratory control samples), precision (duplicate recoveries), and blank contamination (equipment and laboratory blanks). Sample receipt conditions, holding times, and chains of custody (COCs) were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met.

Field Precision: Field goals for precision were met.

Accuracy: Laboratory goals for accuracy were met.

Detection Limits: Project goals for detection limits were met.

Completeness: There were no rejected analytical results for this event, resulting in a completion of 100%.

Holding Times: Holding time requirements were met.

QUALIFICATIONS

In general, chemical results for the resample collected at the site were qualified on the basis of low precision or low accuracy or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the validation process:

J: The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample

ND: The analyte was not detected above the method detection limit

The data generated as part of this supplemental event met the QC criteria established in the analytical method and data validation guidelines. No sample qualifications were required.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from Wansley Ash Pond sampled March 4, 2022 in accordance with the analytical method, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

¹USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy, Revision 2.0

²USEPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

TABLE 1

Georgia Power Company – Wansley Ash Pond

Sample Summary Table – March 2022

						Analyses
SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Metals (6020B)
134767	WCR(+0.1)	3/4/2022	180-134767-1	SW		X
134767	WCR(+1.9)	3/4/2022	180-134767-2	SW		X
134767	WCR(-0.6)	3/4/2022	180-134767-3	SW		X
134767	EQUIPMENT BLANK	3/4/2022	180-134767-4	WQ	EB	X
134767	DUP	3/4/2022	180-134767-5	SW	FD [WCR(+1.9)]	X

Abbreviations:

- EB – Equipment Blank
- FD – Field Duplicate
- SDG – Sample Delivery Group
- SW – Surface Water
- QC – Quality Control
- WQ – Water Quality Control

Memorandum

Date: June 30, 2022
To: Adria Reimer
From: Ashley Wilson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
Laboratory Job ID 180-139452-1 Revision 1**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of six water samples, one field duplicate sample, one equipment blank and one field blank, collected 6-7 June 2022, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins Pittsburgh, Pennsylvania, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by US EPA Method 7470A
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C

The samples were analyzed at Eurofins Edison; Edison, New Jersey, for the following analytical test:

- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. Qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and

- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory report:

Laboratory ID	Client ID
180-139452-1	Dup-1
180-139452-2	WGWC-21
180-139452-3	EB-1
180-139452-4	WGWC-20
180-139452-5	WGWC-23

Laboratory ID	Client ID
180-139452-6	WGWC-22
180-139452-7	WGWC-24
180-139452-8	WGWC-25
180-139452-9	FB-1

The samples were received at 2.8 degrees Celsius (°C) and 4.4°C within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The field pH data included in the laboratory report were not validated.

Radium 226 and 228 (SW-846 9315/9320) analysis was requested on the chain of custody (COC) for all samples. However, this data was not included in the report.

The relinquished by signature, date and time were not documented for the second sample transfer on the COC for the transfer to Eurofins Pittsburgh, Pennsylvania.

The laboratory report was revised on June 29, 2022, to correct samples that were reported incorrectly in the original report. WGWC-22 and WGWC-23 were switched in the laboratory report. The revised report was identified as 180-139452-1 Revision 1.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below)

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ⊗ Field Blank

- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 401922). Metals were not detected in the method blank above the method detection limits (MDLs), with the following exception.

Antimony was detected in the method blank at an estimated concentration greater than the MDL and less than the reporting limit (RL). Therefore, the estimated antimony concentrations in the associated samples greater than the MDL and less than the RL were U qualified as estimated not detected at the RL. No qualifications were applied to the nondetect results for antimony in the associated samples.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
WGWC-23	Antimony	0.0013	J B	0.0020	U	3
WGWC-22	Antimony	0.00054	J B	0.0020	U	3

mg/L-milligrams per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

B-laboratory flag indicating analyte was detected in both the method blank and sample

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using

sample WGWC-23. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank, EB-1, was collected with the sample set. Metals were not detected in the equipment blank above the MDLs.

1.7 Field Blank

One field blank, FB-1, was collected with the sample set. Metals were not detected in the field blanks above the MDLs, with the following exceptions.

Barium (0.023 mg/L) was detected in FB-1 at a concentration greater than the RL. Therefore, the estimated concentrations of barium in WGWC-21 and WGWC-23 were U qualified as not detected at the RL. In addition, based on professional and technical judgment the barium concentrations in WGWC-22 and WGWC-24 were J+ qualified as estimated with high biases.

Boron (0.074 mg/L) was detected in FB-1 at an estimated concentration greater than the MDL and less than the RL. Therefore, based on professional and technical judgment the boron concentrations in WGWC-21, WGWC-22 and WGWC-24 were J+ qualified as estimated with high biases.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WGWC-21	Barium	0.0079	J	0.010	U	3
WGWC-23	Barium	0.0097	J	0.010	U	3
WGWC-22	Barium	0.025	NA	0.025	J+	3
WGWC-24	Barium	0.032	NA	0.032	J+	3
WGWC-21	Boron	0.13	NA	0.13	J+	3
WGWC-22	Boron	0.39	NA	0.39	J+	3
WGWC-24	Boron	0.64	NA	0.64	J+	3

mg/L-milligram per liter

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

NA-not applicable

1.8 Field Duplicate

One field duplicate sample, DUP-1, was collected with the sample set. Acceptable precision (RPD $\leq 20\%$ or the difference between the concentrations $< RL$) was demonstrated between the field duplicate and the original sample, WGWC-25.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 401830). Mercury was not detected in the method blank above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample WGWC-23. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

2.6 Equipment Blank

One equipment blank, EB-1, was collected with the sample set. Mercury was not detected in the equipment blanks above the MDL.

2.7 Field Blank

One field blank, FB-1, was collected with the sample set. Mercury was not detected in the field blanks above the MDL.

2.8 Field Duplicate

One field duplicate sample, DUP-1, was collected with the sample set. Acceptable precision (RPD < 20% or the difference between the concentrations < RL) was demonstrated between the field duplicate and the original sample, WGWC-25.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

Results and sample ID in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0 and TDS by SM 2540C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this data set is 100%.

3.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for anions (batch 850067). Two method blanks were reported for TDS (batches 401646 and 401647). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). An LCS or LCS/LCS duplicate (LCSD) pair was reported for each analytical batch per analysis. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for TDS, using sample WGWC-25. The RPD result was within the laboratory specified acceptance criteria.

3.7 Equipment Blank

One equipment blank, EB-1, was collected with the sample set. The wet chemistry parameters were not detected in the equipment blank above the MDLs.

3.8 Field Blank

One field blank, FB-1, was collected with the sample set. The wet chemistry parameters were not detected in the field blank above the MDL.

3.9 Field Duplicate

One field duplicate sample, DUP-1, was collected with the sample set. Acceptable precision (RPD < 20% or the difference between the concentrations < RL) was demonstrated between the field duplicate and the original sample, WGWC-25.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

**DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team**

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: July 13, 2022
To: Adria Reimer
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Eurofins
TestAmerica Laboratory Job ID 180-139452-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of six aqueous samples, one field duplicate sample, one equipment blank and one field blank, collected from 6-7 June 2022, as part of the Plant Wansley Ash Pond on-site sampling event.

The samples were analyzed at Eurofins TestAmerica St. Louis; Earth City, Missouri, for the following analytical tests:

- Radium-226 by US EPA Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. Qualified data should be used within the limitation of the qualification.

The data were reviewed based on the pertinent methods referenced in the laboratory report, professional and technical judgment and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006); and

- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory report:

Laboratory ID	Client ID
180-139452-1	Dup-1
180-139452-2	WGWC-21
180-139452-3	EB-1
180-139452-4	WGWC-20
180-139452-5	WGWC-23

Laboratory ID	Client ID
180-139452-6	WGWC-22
180-139452-7	WGWC-24
180-139452-8	WGWC-25
180-139452-9	FB-1

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The non-radiochemistry data was reported in laboratory report 180-139452-1.

The received by signature, date and time were not documented for the second sample transfer on the chain of custody (COC).

A collection time was not documented on the COC for the field duplicate, Dup-1. The field duplicate was logged in with the collection time of 00:00.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity

✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for the radium-228 data (batch 570286). Radium-228 was not detected in the method blank above the minimum detectable concentrations (MDCs).

One method blank was reported for the radium-226 data (batch 570281). Radium-226 (0.0936 pCi/L) was detected in the method blank at a concentration greater than the MDC. Therefore, the radium-226 concentrations in the associated samples less than ten times the method blank concentration were J+ qualified as estimated with high biases. Also, based on professional and technical judgment, the combined radium-226 + radium-228 concentrations in samples WGWC-20, WGWC-23, WGWC-24 and WGWC-25 were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
Dup-1	Radium-226	0.266	NA	0.266	J+	3
WGWC-20	Radium-226	0.195	NA	0.195	J+	3
WGWC-20	Combined Radium 226 + 228	0.670	NA	0.670	J+	3
WGWC-23	Radium-226	0.154	NA	0.154	J+	3
WGWC-23	Combined Radium 226 + 228	1.45	NA	1.45	J+	3
WGWC-24	Radium-226	0.229	NA	0.229	J+	3
WGWC-24	Combined Radium 226 + 228	0.845	NA	0.845	J+	3
WGWC-25	Radium-226	0.234	NA	0.234	J+	3
WGWC-25	Combined Radium 226 + 228	0.500	NA	0.500	J+	3

pCi/L-picocuries per liter

NA-not applicable

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported for radium-226 and one LCS was reported for radium-228. The recovery results were within the laboratory specified acceptance criteria.

1.6 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.7 Equipment Blank

One equipment blank, EB-1 was collected with the sample set. Radium-226 and Radium-228 were not detected in the equipment blank above the MDCs.

1.8 Field Blank

One field blank, FB-1 was collected with the sample set. Radium-226 and Radium-228 were not detected in the field blank above the MDCs.

1.9 Field Duplicate

One field duplicate sample, Dup-1 was collected with the sample set. Acceptable precision [relative error ratio (RER) (2σ) < 3] was demonstrated between the field duplicate and the original sample, WGWC-25.

1.10 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

1.11 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

APPENDIX B2

Field Sampling Forms

Purge Logs

Low-Flow Test Report:

Test Date / Time: 1/12/2022 12:16:09 PM

Project: Plant Wansley - Ash Pond

Operator Name: H Auld

Location Name: WGWC-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.85 ft Total Depth: 42.85 ft Initial Depth to Water: 30.85 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 38.85 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1245 on 1-12-22. Sunny, 50s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
1/12/2022 12:16 PM	00:00	6.56 pH	15.66 °C	1,511.8 µS/cm	3.78 mg/L	5.00 NTU	186.6 mV	30.85 ft	150.00 ml/min
1/12/2022 12:17 PM	01:00	6.30 pH	16.56 °C	1,482.8 µS/cm	3.03 mg/L	5.00 NTU	210.2 mV	30.85 ft	150.00 ml/min
1/12/2022 12:17 PM	01:22	6.21 pH	16.82 °C	1,477.4 µS/cm	2.92 mg/L	5.00 NTU	208.0 mV	30.85 ft	150.00 ml/min
1/12/2022 12:22 PM	06:22	5.46 pH	17.80 °C	1,457.6 µS/cm	2.69 mg/L	2.95 NTU	184.6 mV	31.00 ft	150.00 ml/min
1/12/2022 12:27 PM	11:22	5.30 pH	17.94 °C	1,454.1 µS/cm	2.64 mg/L	1.30 NTU	250.2 mV	31.00 ft	150.00 ml/min
1/12/2022 12:32 PM	16:22	5.24 pH	17.85 °C	1,458.3 µS/cm	2.63 mg/L	0.70 NTU	263.9 mV	31.10 ft	150.00 ml/min
1/12/2022 12:37 PM	21:22	5.21 pH	17.81 °C	1,440.3 µS/cm	2.61 mg/L	0.50 NTU	206.1 mV	31.10 ft	150.00 ml/min
1/12/2022 12:42 PM	26:22	5.19 pH	17.76 °C	1,462.7 µS/cm	2.63 mg/L	0.47 NTU	277.8 mV	31.10 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/11/2022 11:25:06 AM

Project: Plant Wansley - Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-21 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 61.73 ft Total Depth: 71.73 ft Initial Depth to Water: 50.51 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 66 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 59.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sunny, second log has ORP

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 0.3	
1/11/2022 11:25 AM	00:00	5.88 pH	12.30 °C	35.49 µS/cm	10.44 mg/L	2.21 NTU	50.51 ft	100.00 ml/min
1/11/2022 11:30 AM	05:00	6.32 pH	9.51 °C	678.71 µS/cm	9.41 mg/L	1.16 NTU	50.80 ft	100.00 ml/min
1/11/2022 11:35 AM	10:00	6.45 pH	8.80 °C	689.82 µS/cm	5.07 mg/L	1.95 NTU	51.20 ft	100.00 ml/min
1/11/2022 11:40 AM	15:00	6.52 pH	9.56 °C	895.79 µS/cm	3.03 mg/L	1.51 NTU	51.60 ft	100.00 ml/min
1/11/2022 11:45 AM	20:00	6.61 pH	10.40 °C	973.20 µS/cm	2.02 mg/L	1.58 NTU	51.80 ft	100.00 ml/min
1/11/2022 11:50 AM	25:00	6.66 pH	10.78 °C	1,021.4 µS/cm	1.56 mg/L	1.99 NTU	52.30 ft	100.00 ml/min
1/11/2022 11:55 AM	30:00	6.72 pH	11.32 °C	1,038.1 µS/cm	1.25 mg/L	1.80 NTU	52.70 ft	100.00 ml/min
1/11/2022 12:00 PM	35:00	6.74 pH	11.52 °C	1,044.6 µS/cm	1.10 mg/L	1.62 NTU	53.00 ft	100.00 ml/min
1/11/2022 12:05 PM	40:00	6.76 pH	11.75 °C	1,032.1 µS/cm	0.99 mg/L	1.49 NTU	53.40 ft	100.00 ml/min
1/11/2022 12:10 PM	45:00	6.77 pH	11.79 °C	1,000.6 µS/cm	0.91 mg/L	1.54 NTU	53.70 ft	100.00 ml/min
1/11/2022 12:15 PM	50:00	6.77 pH	11.93 °C	956.08 µS/cm	0.83 mg/L	1.79 NTU	54.00 ft	100.00 ml/min
1/11/2022 12:20 PM	55:00	6.74 pH	12.16 °C	895.26 µS/cm	0.83 mg/L	2.05 NTU	54.30 ft	100.00 ml/min
1/11/2022 12:25 PM	01:00:00	6.73 pH	12.31 °C	850.64 µS/cm	0.81 mg/L	1.28 NTU	54.60 ft	100.00 ml/min
1/11/2022 12:30 PM	01:05:00	6.71 pH	12.39 °C	819.33 µS/cm	0.80 mg/L	1.11 NTU	54.90 ft	100.00 ml/min
1/11/2022 12:35 PM	01:10:00	6.70 pH	12.30 °C	804.41 µS/cm	0.80 mg/L	1.05 NTU	55.30 ft	100.00 ml/min

1/11/2022 12:40 PM	01:15:00	6.69 pH	12.33 °C	794.02 µS/cm	0.81 mg/L	1.74 NTU	55.50 ft	100.00 ml/min
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Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/11/2022 12:46:26 PM

Project: Plant Wansley - Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-21 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 61.73 ft Total Depth: 71.73 ft Initial Depth to Water: 50.51 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 66 ft Estimated Total Volume Pumped: 1000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Final log, sunny, sample time:1257; 8.5 L- total purge

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
1/11/2022 12:46 PM	00:00	6.69 pH	12.30 °C	787.76 µS/cm	0.81 mg/L	1.21 NTU	11.3 mV	55.50 ft	100.00 ml/min
1/11/2022 12:51 PM	05:00	6.68 pH	12.35 °C	777.80 µS/cm	0.77 mg/L	1.44 NTU	-8.0 mV	55.70 ft	100.00 ml/min
1/11/2022 12:56 PM	10:00	6.68 pH	12.42 °C	774.48 µS/cm	0.79 mg/L	1.52 NTU	24.3 mV	55.80 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/11/2022 1:45:04 PM

Project: Plant Wansley - Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.99 ft Total Depth: 43.99 ft Initial Depth to Water: 17.05 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 15.6 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 35.4 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sunny, sample time-1553. EB-1 here at 1430

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
1/11/2022 1:45 PM	00:00	6.66 pH	16.87 °C	769.03 µS/cm	8.93 mg/L	73.00 NTU	18.8 mV	17.05 ft	125.00 ml/min
1/11/2022 1:50 PM	05:00	5.83 pH	17.25 °C	349.96 µS/cm	4.15 mg/L	76.00 NTU	82.2 mV	17.40 ft	125.00 ml/min
1/11/2022 1:55 PM	10:00	5.43 pH	17.55 °C	327.42 µS/cm	2.03 mg/L	66.00 NTU	119.0 mV	17.70 ft	125.00 ml/min
1/11/2022 2:00 PM	15:00	5.39 pH	17.56 °C	330.54 µS/cm	1.68 mg/L	65.00 NTU	180.2 mV	18.30 ft	125.00 ml/min
1/11/2022 2:05 PM	20:00	5.38 pH	17.15 °C	327.59 µS/cm	1.62 mg/L	44.00 NTU	187.6 mV	18.60 ft	125.00 ml/min
1/11/2022 2:10 PM	25:00	5.38 pH	17.21 °C	330.79 µS/cm	1.46 mg/L	39.00 NTU	190.7 mV	19.20 ft	125.00 ml/min
1/11/2022 2:15 PM	30:00	5.39 pH	16.73 °C	329.40 µS/cm	1.29 mg/L	34.00 NTU	191.5 mV	19.40 ft	125.00 ml/min
1/11/2022 2:20 PM	35:00	5.39 pH	16.47 °C	329.21 µS/cm	1.18 mg/L	28.00 NTU	191.7 mV	19.50 ft	125.00 ml/min
1/11/2022 2:25 PM	40:00	5.39 pH	16.06 °C	329.05 µS/cm	1.06 mg/L	22.00 NTU	191.1 mV	19.70 ft	125.00 ml/min
1/11/2022 2:30 PM	45:00	5.39 pH	15.97 °C	328.46 µS/cm	1.00 mg/L	19.00 NTU	191.3 mV	19.90 ft	125.00 ml/min
1/11/2022 2:35 PM	50:00	5.39 pH	15.86 °C	328.28 µS/cm	1.00 mg/L	17.00 NTU	126.2 mV	20.00 ft	125.00 ml/min
1/11/2022 2:40 PM	55:00	5.40 pH	15.26 °C	325.31 µS/cm	1.00 mg/L	16.00 NTU	187.7 mV	20.00 ft	125.00 ml/min
1/11/2022 2:45 PM	01:00:00	5.40 pH	15.11 °C	326.35 µS/cm	1.04 mg/L	16.00 NTU	188.2 mV	20.00 ft	125.00 ml/min
1/11/2022 2:50 PM	01:05:00	5.41 pH	14.89 °C	323.25 µS/cm	1.05 mg/L	14.00 NTU	123.4 mV	20.00 ft	125.00 ml/min
1/11/2022 2:55 PM	01:10:00	5.40 pH	14.85 °C	325.07 µS/cm	1.07 mg/L	11.00 NTU	185.6 mV	20.00 ft	125.00 ml/min

1/11/2022 3:00 PM	01:15:00	5.40 pH	14.68 °C	324.07 µS/cm	1.11 mg/L	9.52 NTU	122.6 mV	20.00 ft	125.00 ml/min
1/11/2022 3:05 PM	01:20:00	5.40 pH	14.67 °C	324.00 µS/cm	1.11 mg/L	7.99 NTU	182.8 mV	20.00 ft	125.00 ml/min
1/11/2022 3:10 PM	01:25:00	5.41 pH	14.35 °C	323.07 µS/cm	1.11 mg/L	7.59 NTU	121.2 mV	20.00 ft	125.00 ml/min
1/11/2022 3:15 PM	01:30:00	5.41 pH	14.34 °C	322.72 µS/cm	1.13 mg/L	6.81 NTU	120.2 mV	20.00 ft	125.00 ml/min
1/11/2022 3:20 PM	01:35:00	5.40 pH	14.25 °C	324.37 µS/cm	1.16 mg/L	6.47 NTU	180.1 mV	20.00 ft	125.00 ml/min
1/11/2022 3:25 PM	01:40:00	5.40 pH	14.58 °C	323.65 µS/cm	1.15 mg/L	6.38 NTU	120.9 mV	20.00 ft	125.00 ml/min
1/11/2022 3:30 PM	01:45:00	5.40 pH	14.68 °C	322.87 µS/cm	1.15 mg/L	6.11 NTU	119.9 mV	20.00 ft	125.00 ml/min
1/11/2022 3:35 PM	01:50:00	5.40 pH	14.77 °C	323.77 µS/cm	1.18 mg/L	5.94 NTU	179.9 mV	20.00 ft	125.00 ml/min
1/11/2022 3:40 PM	01:55:00	5.40 pH	14.82 °C	323.52 µS/cm	1.17 mg/L	5.22 NTU	180.2 mV	20.00 ft	125.00 ml/min
1/11/2022 3:45 PM	02:00:00	5.40 pH	14.84 °C	323.78 µS/cm	1.17 mg/L	5.25 NTU	180.5 mV	20.00 ft	125.00 ml/min
1/11/2022 3:50 PM	02:05:00	5.40 pH	14.76 °C	324.58 µS/cm	1.18 mg/L	3.29 NTU	121.5 mV	20.00 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/11/2022 2:22:11 PM

Project: Plant Wansley - Ash Pond

Operator Name: H Auld

Location Name: WGWC-23 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.8 ft Total Depth: 53.86 ft Initial Depth to Water: 31.75 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 48.8 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 7.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1450 on 1-11-22. Sunny, 40s. FB-1 here at 1440.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
1/11/2022 2:22 PM	00:00	5.68 pH	16.37 °C	84.95 µS/cm	5.76 mg/L	5.00 NTU	143.8 mV	31.75 ft	150.00 ml/min
1/11/2022 2:22 PM	00:28	5.65 pH	16.31 °C	83.15 µS/cm	5.50 mg/L	5.00 NTU	166.6 mV	31.75 ft	150.00 ml/min
1/11/2022 2:27 PM	05:28	5.60 pH	16.37 °C	76.75 µS/cm	4.55 mg/L	11.40 NTU	141.5 mV	32.40 ft	150.00 ml/min
1/11/2022 2:32 PM	10:28	5.61 pH	16.31 °C	75.06 µS/cm	4.39 mg/L	6.40 NTU	138.6 mV	32.40 ft	150.00 ml/min
1/11/2022 2:37 PM	15:28	5.58 pH	16.24 °C	74.79 µS/cm	4.36 mg/L	5.70 NTU	138.2 mV	32.40 ft	150.00 ml/min
1/11/2022 2:42 PM	20:28	5.62 pH	16.58 °C	75.83 µS/cm	4.29 mg/L	4.00 NTU	135.9 mV	32.40 ft	150.00 ml/min
1/11/2022 2:47 PM	25:28	5.61 pH	16.33 °C	77.61 µS/cm	4.27 mg/L	4.10 NTU	135.1 mV	32.40 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/11/2022 1:08:06 PM

Project: Plant Wansley - Ash Pond

Operator Name: H Auld

Location Name: WGWC-24 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.75 ft Total Depth: 40.75 ft Initial Depth to Water: 13.49 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 35.75 ft Estimated Total Volume Pumped: 7.2 liter Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 2.5 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Sampled at 1335 on 1-11-22. Sunny, 40s. Dup-1 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
1/11/2022 1:08 PM	00:00	4.47 pH	18.40 °C	506.85 µS/cm	2.23 mg/L	2.40 NTU	210.9 mV	13.49 ft	225.00 ml/min
1/11/2022 1:13 PM	05:00	4.39 pH	18.71 °C	500.43 µS/cm	1.24 mg/L	2.40 NTU	250.4 mV	13.70 ft	225.00 ml/min
1/11/2022 1:18 PM	10:00	4.37 pH	18.69 °C	492.00 µS/cm	0.98 mg/L	3.80 NTU	249.8 mV	13.70 ft	225.00 ml/min
1/11/2022 1:23 PM	15:00	4.38 pH	18.70 °C	491.87 µS/cm	0.77 mg/L	3.80 NTU	247.4 mV	13.70 ft	225.00 ml/min
1/11/2022 1:28 PM	20:00	4.38 pH	18.65 °C	492.33 µS/cm	0.68 mg/L	3.50 NTU	246.4 mV	13.70 ft	225.00 ml/min
1/11/2022 1:33 PM	25:00	4.39 pH	18.90 °C	493.41 µS/cm	0.67 mg/L	3.30 NTU	246.1 mV	13.70 ft	225.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 1/11/2022 4:10:57 PM

Project: Plant Wansley - Ash Pond

Operator Name: Anna Schnittker

Location Name: WGWC-25 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.9 ft Total Depth: 39.93 ft Initial Depth to Water: 17.06 ft	Pump Type: Bladder pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 20 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 5 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sample time 1640. Sunny 50. note:70min of additional purge time prior to this - meter failed

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 4	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 5	
1/11/2022 4:10 PM	00:00	5.25 pH	15.84 °C	313.28 µS/cm	0.86 mg/L	3.66 NTU	143.8 mV	17.06 ft	200.00 ml/min
1/11/2022 4:15 PM	05:00	5.25 pH	16.11 °C	310.99 µS/cm	0.44 mg/L	3.20 NTU	224.2 mV	17.60 ft	200.00 ml/min
1/11/2022 4:20 PM	10:00	5.26 pH	16.16 °C	309.30 µS/cm	0.41 mg/L	3.18 NTU	156.9 mV	17.60 ft	200.00 ml/min
1/11/2022 4:25 PM	15:00	5.26 pH	16.22 °C	308.70 µS/cm	0.40 mg/L	2.14 NTU	220.1 mV	17.60 ft	200.00 ml/min
1/11/2022 4:30 PM	20:00	5.26 pH	16.11 °C	308.16 µS/cm	0.40 mg/L	2.50 NTU	221.7 mV	17.60 ft	200.00 ml/min
1/11/2022 4:35 PM	25:00	5.26 pH	16.11 °C	307.91 µS/cm	0.37 mg/L	2.45 NTU	222.0 mV	17.60 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/1/2022 11:11:23 AM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWA-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 119.86 ft Total Depth: 129.86 ft Initial Depth to Water: 27.96 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 124 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 2.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sunny, 70s, sample time -WGWA-1

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
3/1/2022 11:11 AM	00:00	6.46 pH	18.61 °C	76.49 µS/cm	8.22 mg/L	4.11 NTU	146.9 mV	27.96 ft	100.00 ml/min
3/1/2022 11:16 AM	05:00	5.93 pH	15.58 °C	36.39 µS/cm	6.34 mg/L	3.69 NTU	115.1 mV	28.20 ft	100.00 ml/min
3/1/2022 11:21 AM	10:00	5.78 pH	16.22 °C	33.49 µS/cm	1.82 mg/L	3.90 NTU	70.7 mV	28.20 ft	100.00 ml/min
3/1/2022 11:26 AM	15:00	5.68 pH	16.70 °C	32.48 µS/cm	0.71 mg/L	3.31 NTU	52.4 mV	28.20 ft	100.00 ml/min
3/1/2022 11:31 AM	20:00	5.51 pH	16.34 °C	32.26 µS/cm	0.44 mg/L	3.16 NTU	53.1 mV	28.20 ft	100.00 ml/min
3/1/2022 11:36 AM	25:00	5.41 pH	16.12 °C	32.66 µS/cm	0.38 mg/L	2.82 NTU	58.9 mV	28.20 ft	100.00 ml/min
3/1/2022 11:41 AM	30:00	5.36 pH	16.15 °C	33.02 µS/cm	0.49 mg/L	2.55 NTU	61.5 mV	28.20 ft	100.00 ml/min
3/1/2022 11:46 AM	35:00	5.32 pH	16.43 °C	32.88 µS/cm	0.69 mg/L	1.66 NTU	60.4 mV	28.20 ft	100.00 ml/min
3/1/2022 11:51 AM	40:00	5.31 pH	16.57 °C	33.08 µS/cm	0.97 mg/L	1.46 NTU	59.6 mV	28.20 ft	100.00 ml/min
3/1/2022 11:56 AM	45:00	5.31 pH	16.38 °C	33.01 µS/cm	1.17 mg/L	1.13 NTU	60.4 mV	28.20 ft	100.00 ml/min
3/1/2022 12:01 PM	50:00	5.31 pH	16.20 °C	32.67 µS/cm	1.33 mg/L	1.93 NTU	60.4 mV	28.20 ft	100.00 ml/min
3/1/2022 12:06 PM	55:00	5.31 pH	16.29 °C	32.70 µS/cm	1.41 mg/L	1.29 NTU	59.7 mV	28.20 ft	100.00 ml/min
3/1/2022 12:11 PM	01:00:00	5.32 pH	16.42 °C	32.68 µS/cm	1.46 mg/L	1.53 NTU	59.7 mV	28.20 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/1/2022 2:25:10 PM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 92.65 ft Total Depth: 102.65 ft Initial Depth to Water: 9.33 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 97 ft Estimated Total Volume Pumped: 5.6 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 6 in	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sunny, 70s, sample time-1510, FB-1 here at 1450

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
3/1/2022 2:25 PM	00:00	6.45 pH	23.23 °C	0.00 µS/cm	7.91 mg/L	7.37 NTU	36.4 mV	9.33 ft	125.00 ml/min
3/1/2022 2:30 PM	05:00	6.54 pH	17.14 °C	116.40 µS/cm	2.43 mg/L	5.11 NTU	-7.7 mV	9.60 ft	125.00 ml/min
3/1/2022 2:35 PM	10:00	6.22 pH	16.87 °C	117.13 µS/cm	1.17 mg/L	2.41 NTU	-23.5 mV	9.80 ft	125.00 ml/min
3/1/2022 2:40 PM	15:00	6.25 pH	16.87 °C	128.32 µS/cm	1.02 mg/L	3.33 NTU	3.4 mV	9.80 ft	125.00 ml/min
3/1/2022 2:45 PM	20:00	6.23 pH	17.12 °C	127.81 µS/cm	0.92 mg/L	2.81 NTU	23.8 mV	9.80 ft	125.00 ml/min
3/1/2022 2:50 PM	25:00	6.21 pH	17.01 °C	125.69 µS/cm	0.84 mg/L	2.33 NTU	29.1 mV	9.80 ft	125.00 ml/min
3/1/2022 2:55 PM	30:00	6.20 pH	17.01 °C	124.75 µS/cm	0.77 mg/L	2.02 NTU	30.7 mV	9.80 ft	125.00 ml/min
3/1/2022 3:00 PM	35:00	6.20 pH	16.92 °C	124.44 µS/cm	0.71 mg/L	2.76 NTU	31.1 mV	9.80 ft	125.00 ml/min
3/1/2022 3:05 PM	40:00	6.20 pH	16.81 °C	124.62 µS/cm	0.66 mg/L	2.22 NTU	31.2 mV	9.80 ft	125.00 ml/min
3/1/2022 3:10 PM	45:00	6.20 pH	16.80 °C	124.70 µS/cm	0.62 mg/L	1.46 NTU	31.2 mV	9.80 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/1/2022 3:11:12 PM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWA-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 9 ft Total Depth: 19 ft Initial Depth to Water: 2.8 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 14 ft Estimated Total Volume Pumped: 4500 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sample collected at 1543, sunny 50s, Dup-1 here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 10	+/- 25	+/- 0.3	
3/1/2022 3:11 PM	00:00	6.23 pH	17.01 °C	33.16 µS/cm	6.17 mg/L	0.61 NTU	118.7 mV	2.80 ft	150.00 ml/min
3/1/2022 3:16 PM	05:00	5.65 pH	16.48 °C	32.86 µS/cm	5.57 mg/L	0.49 NTU	110.7 mV	2.80 ft	150.00 ml/min
3/1/2022 3:21 PM	10:00	5.61 pH	16.43 °C	32.81 µS/cm	5.54 mg/L	0.50 NTU	109.2 mV	2.80 ft	150.00 ml/min
3/1/2022 3:26 PM	15:00	5.60 pH	16.43 °C	32.81 µS/cm	5.53 mg/L	0.83 NTU	104.7 mV	2.80 ft	150.00 ml/min
3/1/2022 3:31 PM	20:00	5.59 pH	16.42 °C	32.82 µS/cm	5.52 mg/L	0.43 NTU	103.0 mV	2.80 ft	150.00 ml/min
3/1/2022 3:36 PM	25:00	5.59 pH	16.43 °C	32.84 µS/cm	5.53 mg/L	0.53 NTU	99.6 mV	2.80 ft	150.00 ml/min
3/1/2022 3:41 PM	30:00	5.59 pH	16.45 °C	32.86 µS/cm	5.51 mg/L	0.42 NTU	96.6 mV	2.80 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/28/2022 3:55:40 PM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWA-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 63.9 ft Total Depth: 73.9 ft Initial Depth to Water: 4.55 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 69 ft Estimated Total Volume Pumped: 4500 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 1.45 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sample collected at 1628, sunny 50s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 10	+/- 25	+/- 0.3	
2/28/2022 3:55 PM	00:00	6.88 pH	16.47 °C	186.98 µS/cm	0.23 mg/L	1.49 NTU	-95.9 mV	4.55 ft	150.00 ml/min
2/28/2022 4:00 PM	05:00	7.08 pH	16.23 °C	192.06 µS/cm	0.05 mg/L	1.58 NTU	-120.9 mV	5.50 ft	150.00 ml/min
2/28/2022 4:05 PM	10:00	7.13 pH	16.29 °C	189.14 µS/cm	0.05 mg/L	1.04 NTU	-122.3 mV	5.80 ft	150.00 ml/min
2/28/2022 4:10 PM	15:00	7.12 pH	16.29 °C	185.02 µS/cm	0.06 mg/L	0.79 NTU	-118.0 mV	6.00 ft	150.00 ml/min
2/28/2022 4:15 PM	20:00	7.12 pH	16.20 °C	182.47 µS/cm	0.08 mg/L	0.67 NTU	-110.4 mV	6.00 ft	150.00 ml/min
2/28/2022 4:20 PM	25:00	7.12 pH	16.29 °C	181.60 µS/cm	0.09 mg/L	0.74 NTU	-106.1 mV	6.00 ft	150.00 ml/min
2/28/2022 4:25 PM	30:00	7.14 pH	16.38 °C	180.34 µS/cm	0.10 mg/L	0.44 NTU	-103.0 mV	6.00 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/1/2022 11:10:13 AM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 12.6 ft Total Depth: 23.6 ft Initial Depth to Water: 14.47 ft	Pump Type: Peri Pump Tubing Type: Poly Pump Intake From TOC: 18 ft Estimated Total Volume Pumped: 17337.5 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.23 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sample collected at 1307, sunny 50s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 10	+/- 25	+/- 0.3	
3/1/2022 11:10 AM	00:00	5.68 pH	17.48 °C	42.18 µS/cm	4.61 mg/L	14.70 NTU	112.7 mV	14.47 ft	150.00 ml/min
3/1/2022 11:15 AM	05:00	5.64 pH	17.00 °C	39.62 µS/cm	4.73 mg/L	15.70 NTU	100.7 mV	14.70 ft	150.00 ml/min
3/1/2022 11:20 AM	10:00	5.55 pH	16.91 °C	35.09 µS/cm	4.75 mg/L	15.50 NTU	99.6 mV	14.70 ft	150.00 ml/min
3/1/2022 11:25 AM	15:00	5.51 pH	17.10 °C	32.47 µS/cm	4.84 mg/L	16.50 NTU	96.5 mV	14.70 ft	150.00 ml/min
3/1/2022 11:30 AM	20:00	5.67 pH	17.34 °C	33.88 µS/cm	6.97 mg/L	17.30 NTU	90.3 mV	14.70 ft	150.00 ml/min
3/1/2022 11:35 AM	25:00	5.44 pH	17.54 °C	29.39 µS/cm	4.80 mg/L	15.40 NTU	88.9 mV	14.70 ft	150.00 ml/min
3/1/2022 11:40 AM	30:00	5.37 pH	18.40 °C	27.32 µS/cm	4.86 mg/L	15.90 NTU	93.2 mV	14.70 ft	150.00 ml/min
3/1/2022 11:45 AM	35:00	5.43 pH	18.65 °C	28.38 µS/cm	4.95 mg/L	15.00 NTU	87.0 mV	14.70 ft	150.00 ml/min
3/1/2022 11:50 AM	40:00	5.46 pH	18.80 °C	30.50 µS/cm	4.90 mg/L	15.80 NTU	85.2 mV	14.70 ft	150.00 ml/min
3/1/2022 11:55 AM	45:00	5.46 pH	19.28 °C	30.27 µS/cm	4.81 mg/L	15.70 NTU	89.0 mV	14.70 ft	150.00 ml/min
3/1/2022 12:00 PM	50:00	5.44 pH	19.59 °C	29.37 µS/cm	4.87 mg/L	16.30 NTU	83.8 mV	14.70 ft	150.00 ml/min
3/1/2022 12:05 PM	55:00	6.13 pH	18.92 °C	144.07 µS/cm	4.78 mg/L	14.40 NTU	73.1 mV	14.70 ft	150.00 ml/min
3/1/2022 12:10 PM	01:00:00	6.36 pH	18.24 °C	130.49 µS/cm	3.25 mg/L	12.80 NTU	85.5 mV	14.70 ft	150.00 ml/min
3/1/2022 12:15 PM	01:05:00	5.92 pH	18.00 °C	59.53 µS/cm	4.11 mg/L	13.50 NTU	70.2 mV	14.70 ft	150.00 ml/min
3/1/2022 12:20 PM	01:10:00	5.60 pH	17.83 °C	36.00 µS/cm	4.50 mg/L	14.10 NTU	80.2 mV	14.70 ft	150.00 ml/min

3/1/2022 12:25 PM	01:15:00	5.52 pH	17.67 °C	32.48 µS/cm	4.72 mg/L	14.60 NTU	81.7 mV	14.70 ft	150.00 ml/min
3/1/2022 12:30 PM	01:20:00	5.49 pH	17.58 °C	31.23 µS/cm	4.81 mg/L	13.80 NTU	81.9 mV	14.70 ft	150.00 ml/min
3/1/2022 12:35 PM	01:25:00	5.48 pH	17.54 °C	31.10 µS/cm	4.80 mg/L	14.60 NTU	80.6 mV	14.70 ft	150.00 ml/min
3/1/2022 12:40 PM	01:30:00	5.42 pH	17.50 °C	28.15 µS/cm	5.05 mg/L	12.80 NTU	80.3 mV	14.70 ft	150.00 ml/min
3/1/2022 12:45 PM	01:35:00	5.42 pH	17.53 °C	28.16 µS/cm	5.02 mg/L	10.60 NTU	81.1 mV	14.70 ft	150.00 ml/min
3/1/2022 12:50 PM	01:40:00	5.43 pH	17.45 °C	28.45 µS/cm	4.98 mg/L	8.98 NTU	80.0 mV	14.70 ft	150.00 ml/min
3/1/2022 12:55 PM	01:45:00	5.45 pH	17.40 °C	29.63 µS/cm	4.98 mg/L	6.78 NTU	80.7 mV	14.70 ft	150.00 ml/min
3/1/2022 12:55 PM	01:45:35	5.45 pH	17.37 °C	29.76 µS/cm	5.00 mg/L	6.78 NTU	72.8 mV	14.70 ft	150.00 ml/min
3/1/2022 1:00 PM	01:50:35	5.47 pH	17.34 °C	30.14 µS/cm	4.93 mg/L	5.19 NTU	77.8 mV	14.70 ft	150.00 ml/min
3/1/2022 1:05 PM	01:55:35	5.47 pH	17.27 °C	30.09 µS/cm	4.99 mg/L	4.91 NTU	76.0 mV	14.70 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/1/2022 2:05:11 PM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWA-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 94.5 ft Total Depth: 104.5 ft Initial Depth to Water: 16.51 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 99 ft Estimated Total Volume Pumped: 4500 ml Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 0.79 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sample collected at 1437, sunny 50s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 10	+/- 25	+/- 0.3	
3/1/2022 2:05 PM	00:00	6.49 pH	17.56 °C	159.26 µS/cm	4.14 mg/L	3.22 NTU	64.6 mV	16.51 ft	150.00 ml/min
3/1/2022 2:10 PM	05:00	7.58 pH	17.01 °C	163.34 µS/cm	0.46 mg/L	0.71 NTU	-85.3 mV	17.10 ft	150.00 ml/min
3/1/2022 2:15 PM	10:00	7.72 pH	16.89 °C	164.13 µS/cm	0.20 mg/L	1.45 NTU	-84.4 mV	17.20 ft	150.00 ml/min
3/1/2022 2:20 PM	15:00	7.79 pH	16.92 °C	164.55 µS/cm	0.13 mg/L	0.93 NTU	-136.3 mV	17.30 ft	150.00 ml/min
3/1/2022 2:25 PM	20:00	7.81 pH	16.92 °C	164.73 µS/cm	0.13 mg/L	0.71 NTU	-97.2 mV	17.30 ft	150.00 ml/min
3/1/2022 2:30 PM	25:00	7.84 pH	16.86 °C	164.91 µS/cm	0.13 mg/L	0.59 NTU	-144.3 mV	17.30 ft	150.00 ml/min
3/1/2022 2:35 PM	30:00	7.86 pH	16.87 °C	164.98 µS/cm	0.15 mg/L	0.39 NTU	-107.0 mV	17.30 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 11:36:44 AM

Project: Plant Wansley Ash Pond

Operator Name: Hunter Auld

Location Name: WGWA-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.6 ft Total Depth: 39.6 ft Initial Depth to Water: 26.5 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 12.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 0 in	Instrument Used: Aqua TROLL 400 Serial Number: 728634
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Test Notes:

Sampled at 1152 on 3-3-22. Sunny 70s. Continued from previous log, accidentally closed out log early.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/3/2022 11:36 AM	00:00	5.48 pH	18.24 °C	31.83 µS/cm	6.64 mg/L	0.70 NTU	21.1 mV	26.50 ft	225.00 ml/min
3/3/2022 11:41 AM	05:00	5.46 pH	17.71 °C	28.43 µS/cm	5.80 mg/L	0.60 NTU	21.4 mV	26.50 ft	225.00 ml/min
3/3/2022 11:46 AM	10:00	5.45 pH	17.66 °C	28.73 µS/cm	5.78 mg/L	0.70 NTU	21.5 mV	26.50 ft	225.00 ml/min
3/3/2022 11:51 AM	15:00	5.44 pH	17.74 °C	27.60 µS/cm	5.79 mg/L	0.30 NTU	21.1 mV	26.50 ft	225.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 11:05:12 AM

Project: Plant Wansley Ash Pond

Operator Name: A Schnittker

Location Name: WGWA-18 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.59 ft Total Depth: 39.59 ft Initial Depth to Water: 20.62 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 15 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 32 in	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Sample time 1240. Sunny 60.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
3/3/2022 11:05 AM	00:00	6.73 pH	17.81 °C	68.76 µS/cm	3.78 mg/L	1.27 NTU	61.4 mV	20.62 ft	100.00 ml/min
3/3/2022 11:10 AM	05:00	7.04 pH	17.52 °C	73.81 µS/cm	1.39 mg/L	1.67 NTU	41.1 mV	21.30 ft	100.00 ml/min
3/3/2022 11:15 AM	10:00	7.13 pH	17.42 °C	76.46 µS/cm	0.70 mg/L	1.43 NTU	36.2 mV	21.70 ft	100.00 ml/min
3/3/2022 11:20 AM	15:00	7.00 pH	17.45 °C	76.76 µS/cm	0.66 mg/L	1.37 NTU	38.7 mV	21.90 ft	100.00 ml/min
3/3/2022 11:25 AM	20:00	6.79 pH	17.63 °C	76.58 µS/cm	0.75 mg/L	1.11 NTU	44.9 mV	22.40 ft	100.00 ml/min
3/3/2022 11:30 AM	25:00	6.69 pH	17.58 °C	75.39 µS/cm	0.73 mg/L	0.79 NTU	47.4 mV	22.50 ft	100.00 ml/min
3/3/2022 11:35 AM	30:00	6.62 pH	17.90 °C	74.41 µS/cm	0.57 mg/L	0.50 NTU	48.2 mV	22.60 ft	100.00 ml/min
3/3/2022 11:40 AM	35:00	6.54 pH	17.72 °C	72.03 µS/cm	0.47 mg/L	0.58 NTU	49.1 mV	22.70 ft	100.00 ml/min
3/3/2022 11:45 AM	40:00	6.42 pH	17.70 °C	65.66 µS/cm	0.68 mg/L	0.53 NTU	51.0 mV	22.80 ft	100.00 ml/min
3/3/2022 11:50 AM	45:00	6.33 pH	17.83 °C	59.66 µS/cm	1.49 mg/L	0.51 NTU	56.2 mV	22.90 ft	100.00 ml/min
3/3/2022 11:55 AM	50:00	6.29 pH	19.59 °C	60.68 µS/cm	1.62 mg/L	0.56 NTU	53.7 mV	23.10 ft	100.00 ml/min
3/3/2022 12:00 PM	55:00	6.24 pH	18.47 °C	54.27 µS/cm	1.83 mg/L	0.50 NTU	58.4 mV	23.30 ft	100.00 ml/min
3/3/2022 12:05 PM	01:00:00	6.19 pH	18.43 °C	52.89 µS/cm	1.79 mg/L	0.46 NTU	61.0 mV	23.30 ft	100.00 ml/min
3/3/2022 12:10 PM	01:05:00	6.11 pH	18.19 °C	48.42 µS/cm	2.08 mg/L	0.43 NTU	64.3 mV	23.30 ft	100.00 ml/min
3/3/2022 12:15 PM	01:10:00	6.04 pH	18.24 °C	45.83 µS/cm	2.38 mg/L	0.47 NTU	67.6 mV	23.30 ft	100.00 ml/min

3/3/2022 12:20 PM	01:15:00	5.98 pH	18.30 °C	44.57 µS/cm	2.54 mg/L	0.44 NTU	76.4 mV	23.30 ft	100.00 ml/min
3/3/2022 12:25 PM	01:20:00	5.97 pH	18.25 °C	43.34 µS/cm	2.58 mg/L	0.41 NTU	79.0 mV	23.30 ft	100.00 ml/min
3/3/2022 12:30 PM	01:25:00	5.95 pH	18.21 °C	42.10 µS/cm	2.60 mg/L	0.78 NTU	76.4 mV	23.30 ft	100.00 ml/min
3/3/2022 12:35 PM	01:30:00	5.94 pH	18.34 °C	42.02 µS/cm	2.55 mg/L	1.12 NTU	77.8 mV	23.30 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 4:06:10 PM

Project: Plant Wansley Ash Pond

Operator Name: A Schnittker

Location Name: WGWC-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 49 ft Total Depth: 59.4 ft Initial Depth to Water: 3.77 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 55 ft Estimated Total Volume Pumped: 3.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 12 in	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Sample time 1645. Sunny 70. EB-2 here at 1615.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
3/3/2022 4:06 PM	00:00	6.04 pH	22.85 °C	446.43 µS/cm	2.81 mg/L	1.34 NTU	122.5 mV	3.77 ft	100.00 ml/min
3/3/2022 4:11 PM	05:00	5.80 pH	19.23 °C	477.04 µS/cm	1.97 mg/L	1.67 NTU	73.1 mV	4.20 ft	100.00 ml/min
3/3/2022 4:16 PM	10:00	5.38 pH	18.90 °C	485.75 µS/cm	1.80 mg/L	6.08 NTU	78.0 mV	4.40 ft	100.00 ml/min
3/3/2022 4:21 PM	15:00	5.26 pH	18.39 °C	482.10 µS/cm	1.73 mg/L	5.24 NTU	85.7 mV	4.50 ft	100.00 ml/min
3/3/2022 4:26 PM	20:00	5.23 pH	18.24 °C	484.56 µS/cm	1.61 mg/L	4.87 NTU	91.2 mV	4.60 ft	100.00 ml/min
3/3/2022 4:31 PM	25:00	5.22 pH	18.13 °C	483.33 µS/cm	1.49 mg/L	3.64 NTU	95.1 mV	4.60 ft	100.00 ml/min
3/3/2022 4:36 PM	30:00	5.21 pH	17.89 °C	485.20 µS/cm	1.45 mg/L	3.05 NTU	97.8 mV	4.70 ft	100.00 ml/min
3/3/2022 4:41 PM	35:00	5.21 pH	17.73 °C	487.31 µS/cm	1.44 mg/L	2.47 NTU	93.0 mV	4.70 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 2:46:04 PM

Project: Plant Wansley Ash Pond

Operator Name: A Schnittker

Location Name: WGWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51 ft Total Depth: 61.08 ft Initial Depth to Water: 19.57 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 55 ft Estimated Total Volume Pumped: 5 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 32 in	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Sample time 1525. Sunny 70.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
3/3/2022 2:46 PM	00:00	6.49 pH	29.14 °C	96.18 µS/cm	4.38 mg/L	2.25 NTU	90.8 mV	19.57 ft	125.00 ml/min
3/3/2022 2:51 PM	05:00	5.96 pH	22.43 °C	101.70 µS/cm	0.68 mg/L	2.19 NTU	88.1 mV	22.00 ft	125.00 ml/min
3/3/2022 2:56 PM	10:00	5.95 pH	21.87 °C	102.31 µS/cm	0.43 mg/L	1.96 NTU	96.1 mV	22.10 ft	125.00 ml/min
3/3/2022 3:01 PM	15:00	5.90 pH	21.67 °C	103.24 µS/cm	0.49 mg/L	1.78 NTU	83.5 mV	22.20 ft	125.00 ml/min
3/3/2022 3:06 PM	20:00	5.89 pH	21.73 °C	103.89 µS/cm	0.70 mg/L	1.24 NTU	88.4 mV	22.20 ft	125.00 ml/min
3/3/2022 3:11 PM	25:00	5.87 pH	21.56 °C	103.45 µS/cm	0.79 mg/L	1.34 NTU	79.6 mV	22.20 ft	125.00 ml/min
3/3/2022 3:16 PM	30:00	5.86 pH	21.64 °C	104.24 µS/cm	0.85 mg/L	0.83 NTU	78.7 mV	22.20 ft	125.00 ml/min
3/3/2022 3:21 PM	35:00	5.86 pH	21.55 °C	104.69 µS/cm	0.89 mg/L	0.76 NTU	78.4 mV	22.20 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 11:10:03 AM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 138.98 ft Total Depth: 148.98 ft Initial Depth to Water: 20.77 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 143 ft Estimated Total Volume Pumped: 4000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.63 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sampled collected at 1152, sunny 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 10	+/- 25	+/- 0.3	
3/3/2022 11:10 AM	00:00	6.37 pH	16.96 °C	63.19 µS/cm	1.51 mg/L	2.21 NTU	107.5 mV	20.77 ft	100.00 ml/min
3/3/2022 11:15 AM	05:00	6.29 pH	16.43 °C	60.76 µS/cm	0.77 mg/L	1.47 NTU	79.9 mV	21.70 ft	100.00 ml/min
3/3/2022 11:20 AM	10:00	6.30 pH	16.51 °C	60.38 µS/cm	1.95 mg/L	1.84 NTU	104.7 mV	21.90 ft	100.00 ml/min
3/3/2022 11:25 AM	15:00	6.31 pH	16.52 °C	61.38 µS/cm	3.19 mg/L	1.32 NTU	81.4 mV	22.00 ft	100.00 ml/min
3/3/2022 11:30 AM	20:00	6.34 pH	16.45 °C	63.77 µS/cm	3.95 mg/L	2.52 NTU	112.6 mV	22.10 ft	100.00 ml/min
3/3/2022 11:35 AM	25:00	6.36 pH	16.44 °C	65.12 µS/cm	4.48 mg/L	2.65 NTU	82.1 mV	22.20 ft	100.00 ml/min
3/3/2022 11:40 AM	30:00	6.37 pH	16.43 °C	65.40 µS/cm	4.67 mg/L	2.48 NTU	81.9 mV	22.30 ft	100.00 ml/min
3/3/2022 11:45 AM	35:00	6.37 pH	16.39 °C	65.50 µS/cm	4.77 mg/L	2.76 NTU	81.1 mV	22.30 ft	100.00 ml/min
3/3/2022 11:50 AM	40:00	6.36 pH	16.56 °C	65.21 µS/cm	4.81 mg/L	1.90 NTU	84.1 mV	22.40 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 3:03:33 PM

Project: Plant Wansley Ash Pond

Operator Name: Hunter Auld

Location Name: WGWC-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 39.5 ft Total Depth: 49.5 ft Initial Depth to Water: 27.14 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 44.5 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 27.1 in	Instrument Used: Aqua TROLL 400 Serial Number: 728634
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Test Notes:

Sampled at 1530 on 3-3-22. Sunny 70s. FB-2 here at 1515.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/3/2022 3:03 PM	00:00	5.59 pH	22.26 °C	34.32 µS/cm	5.89 mg/L	10.00 NTU	42.2 mV	27.14 ft	200.00 ml/min
3/3/2022 3:08 PM	05:00	5.56 pH	18.82 °C	34.98 µS/cm	6.44 mg/L	2.00 NTU	41.9 mV	29.00 ft	200.00 ml/min
3/3/2022 3:13 PM	10:00	5.59 pH	18.60 °C	35.55 µS/cm	6.11 mg/L	2.20 NTU	42.1 mV	29.20 ft	200.00 ml/min
3/3/2022 3:18 PM	15:00	5.61 pH	18.54 °C	35.96 µS/cm	6.09 mg/L	1.80 NTU	41.0 mV	29.30 ft	200.00 ml/min
3/3/2022 3:23 PM	20:00	5.61 pH	18.56 °C	36.52 µS/cm	6.20 mg/L	1.70 NTU	40.7 mV	29.30 ft	200.00 ml/min
3/3/2022 3:28 PM	25:00	5.59 pH	18.55 °C	36.88 µS/cm	6.30 mg/L	1.50 NTU	41.3 mV	29.40 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/4/2022 12:18:04 PM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 66.57 ft Total Depth: 76.57 ft Initial Depth to Water: 26.78 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 71 ft Estimated Total Volume Pumped: 35750 ml Flow Cell Volume: 90 ml Final Flow Rate: 275 ml/min Final Draw Down: 0.42 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sample collected at 1430 , sunny 70s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 10	+/- 25	+/- 0.3	
3/4/2022 12:18 PM	00:00	6.54 pH	19.02 °C	123.36 µS/cm	1.98 mg/L	10.90 NTU	4.1 mV	26.78 ft	275.00 ml/min
3/4/2022 12:23 PM	05:00	6.64 pH	18.05 °C	110.08 µS/cm	1.13 mg/L	1,000.00 NTU	0.0 mV	27.00 ft	275.00 ml/min
3/4/2022 12:28 PM	10:00	6.63 pH	17.83 °C	110.24 µS/cm	1.56 mg/L	681.00 NTU	1.5 mV	27.10 ft	275.00 ml/min
3/4/2022 12:33 PM	15:00	6.65 pH	17.77 °C	111.77 µS/cm	1.07 mg/L	153.00 NTU	-0.7 mV	27.10 ft	275.00 ml/min
3/4/2022 12:38 PM	20:00	6.66 pH	17.72 °C	114.13 µS/cm	0.90 mg/L	49.70 NTU	-1.1 mV	27.20 ft	275.00 ml/min
3/4/2022 12:43 PM	25:00	6.69 pH	17.65 °C	116.19 µS/cm	0.61 mg/L	35.40 NTU	-9.7 mV	27.20 ft	275.00 ml/min
3/4/2022 12:48 PM	30:00	6.70 pH	17.67 °C	118.83 µS/cm	0.14 mg/L	17.30 NTU	-4.8 mV	27.20 ft	275.00 ml/min
3/4/2022 12:53 PM	35:00	6.72 pH	17.66 °C	120.10 µS/cm	0.13 mg/L	12.40 NTU	-4.6 mV	27.20 ft	275.00 ml/min
3/4/2022 12:58 PM	40:00	6.73 pH	17.65 °C	120.96 µS/cm	0.15 mg/L	12.10 NTU	-12.7 mV	27.20 ft	275.00 ml/min
3/4/2022 1:03 PM	45:00	6.74 pH	17.85 °C	120.97 µS/cm	0.18 mg/L	10.50 NTU	-5.5 mV	27.20 ft	275.00 ml/min
3/4/2022 1:08 PM	50:00	6.75 pH	17.91 °C	121.32 µS/cm	0.14 mg/L	8.81 NTU	-4.8 mV	27.20 ft	275.00 ml/min
3/4/2022 1:13 PM	55:00	6.76 pH	17.80 °C	121.34 µS/cm	0.14 mg/L	8.17 NTU	-5.3 mV	27.20 ft	275.00 ml/min
3/4/2022 1:18 PM	01:00:00	6.76 pH	18.03 °C	121.45 µS/cm	0.15 mg/L	7.74 NTU	-4.3 mV	27.20 ft	275.00 ml/min
3/4/2022 1:23 PM	01:05:00	6.76 pH	18.05 °C	121.17 µS/cm	0.16 mg/L	6.68 NTU	-12.0 mV	27.20 ft	275.00 ml/min
3/4/2022 1:28 PM	01:10:00	6.77 pH	18.15 °C	120.95 µS/cm	0.16 mg/L	6.40 NTU	-4.5 mV	27.20 ft	275.00 ml/min

3/4/2022 1:33 PM	01:15:00	6.78 pH	18.10 °C	120.85 µS/cm	0.18 mg/L	6.86 NTU	-3.3 mV	27.20 ft	275.00 ml/min
3/4/2022 1:38 PM	01:20:00	6.78 pH	18.21 °C	120.32 µS/cm	0.17 mg/L	5.88 NTU	-3.8 mV	27.20 ft	275.00 ml/min
3/4/2022 1:43 PM	01:25:00	6.78 pH	18.27 °C	120.15 µS/cm	0.18 mg/L	5.76 NTU	-3.4 mV	27.20 ft	275.00 ml/min
3/4/2022 1:48 PM	01:30:00	6.78 pH	18.32 °C	120.19 µS/cm	0.18 mg/L	5.72 NTU	-3.4 mV	27.20 ft	275.00 ml/min
3/4/2022 1:53 PM	01:35:00	6.79 pH	19.06 °C	120.18 µS/cm	0.20 mg/L	5.84 NTU	-13.5 mV	27.20 ft	275.00 ml/min
3/4/2022 1:58 PM	01:40:00	6.78 pH	19.26 °C	120.35 µS/cm	0.20 mg/L	7.47 NTU	-4.2 mV	27.20 ft	275.00 ml/min
3/4/2022 2:03 PM	01:45:00	6.80 pH	18.93 °C	119.73 µS/cm	0.41 mg/L	5.41 NTU	-1.0 mV	27.20 ft	275.00 ml/min
3/4/2022 2:08 PM	01:50:00	6.79 pH	19.00 °C	118.77 µS/cm	0.23 mg/L	5.74 NTU	3.3 mV	27.20 ft	275.00 ml/min
3/4/2022 2:13 PM	01:55:00	6.79 pH	18.63 °C	118.65 µS/cm	0.21 mg/L	5.15 NTU	3.7 mV	27.20 ft	275.00 ml/min
3/4/2022 2:18 PM	02:00:00	6.79 pH	18.29 °C	118.82 µS/cm	0.20 mg/L	5.12 NTU	0.5 mV	27.20 ft	275.00 ml/min
3/4/2022 2:23 PM	02:05:00	6.79 pH	18.30 °C	118.55 µS/cm	0.19 mg/L	5.16 NTU	-7.0 mV	27.20 ft	275.00 ml/min
3/4/2022 2:28 PM	02:10:00	6.79 pH	18.12 °C	118.51 µS/cm	0.19 mg/L	4.57 NTU	-1.0 mV	27.20 ft	275.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 12:47:00 PM

Project: Plant Wansley Ash Pond

Operator Name: Hunter Auld

Location Name: WGWC-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85.5 ft Total Depth: 95.55 ft Initial Depth to Water: 20.19 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 3.4 liter Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 9.7 in	Instrument Used: Aqua TROLL 400 Serial Number: 728634
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Test Notes:

Sampled at 1313 on 3-3-22. Sunny 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/3/2022 12:47 PM	00:00	5.21 pH	36.37 °C	0.00 µS/cm	5.46 mg/L	10.00 NTU	19.7 mV	20.19 ft	120.00 ml/min
3/3/2022 12:52 PM	05:00	6.51 pH	27.23 °C	61.45 µS/cm	5.47 mg/L	18.50 NTU	25.7 mV	20.60 ft	120.00 ml/min
3/3/2022 12:57 PM	10:00	6.25 pH	20.82 °C	67.86 µS/cm	1.03 mg/L	5.20 NTU	19.9 mV	20.70 ft	120.00 ml/min
3/3/2022 1:02 PM	15:00	6.31 pH	21.01 °C	67.19 µS/cm	1.62 mg/L	3.50 NTU	12.7 mV	20.80 ft	120.00 ml/min
3/3/2022 1:07 PM	20:00	6.31 pH	20.98 °C	66.92 µS/cm	1.60 mg/L	2.50 NTU	12.9 mV	20.90 ft	120.00 ml/min
3/3/2022 1:12 PM	25:00	6.31 pH	21.02 °C	66.43 µS/cm	1.60 mg/L	2.30 NTU	13.6 mV	21.00 ft	120.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 1:40:57 PM

Project: Plant Wansley Ash Pond

Operator Name: Hunter Auld

Location Name: WGWC-14A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.08 ft Total Depth: 43.08 ft Initial Depth to Water: 20.16 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 4.1 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 8.9 in	Instrument Used: Aqua TROLL 400 Serial Number: 728634
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Test Notes:

Sampled at 1407 on 3-3-22. Sunny , 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
3/3/2022 1:40 PM	00:00	6.27 pH	40.37 °C	0.00 µS/cm	5.00 mg/L	10.00 NTU	22.5 mV	20.16 ft	150.00 ml/min
3/3/2022 1:45 PM	05:00	5.54 pH	31.17 °C	30.49 µS/cm	2.96 mg/L	7.90 NTU	28.0 mV	20.70 ft	150.00 ml/min
3/3/2022 1:50 PM	10:00	5.41 pH	22.84 °C	33.10 µS/cm	1.36 mg/L	5.90 NTU	22.3 mV	20.70 ft	150.00 ml/min
3/3/2022 1:55 PM	15:00	5.41 pH	22.48 °C	33.83 µS/cm	1.25 mg/L	4.40 NTU	14.9 mV	20.80 ft	150.00 ml/min
3/3/2022 2:00 PM	20:00	5.41 pH	22.16 °C	33.56 µS/cm	1.25 mg/L	3.70 NTU	13.8 mV	20.80 ft	150.00 ml/min
3/3/2022 2:05 PM	25:00	5.40 pH	21.67 °C	33.14 µS/cm	1.24 mg/L	3.20 NTU	13.8 mV	20.90 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 1:00:19 PM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.36 ft Total Depth: 53.36 ft Initial Depth to Water: 20 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 4000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 2.3 ft	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sunny, 70s, sample time-1340.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
3/3/2022 1:00 PM	00:00	7.05 pH	19.02 °C	0.00 µS/cm	9.37 mg/L	2.33 NTU	358.3 mV	20.00 ft	100.00 ml/min
3/3/2022 1:05 PM	05:00	7.77 pH	19.77 °C	200.87 µS/cm	9.61 mg/L	3.17 NTU	149.3 mV	20.50 ft	100.00 ml/min
3/3/2022 1:10 PM	10:00	7.45 pH	17.59 °C	202.39 µS/cm	5.63 mg/L	2.61 NTU	-15.5 mV	21.10 ft	100.00 ml/min
3/3/2022 1:15 PM	15:00	7.65 pH	17.73 °C	211.08 µS/cm	3.69 mg/L	2.18 NTU	-55.8 mV	21.60 ft	100.00 ml/min
3/3/2022 1:20 PM	20:00	7.62 pH	18.10 °C	201.50 µS/cm	4.37 mg/L	2.10 NTU	-62.2 mV	22.00 ft	100.00 ml/min
3/3/2022 1:25 PM	25:00	7.61 pH	18.08 °C	197.90 µS/cm	5.72 mg/L	2.96 NTU	-46.6 mV	22.20 ft	100.00 ml/min
3/3/2022 1:30 PM	30:00	7.61 pH	19.38 °C	198.55 µS/cm	5.37 mg/L	2.31 NTU	-20.4 mV	22.20 ft	100.00 ml/min
3/3/2022 1:35 PM	35:00	7.61 pH	18.08 °C	195.37 µS/cm	5.18 mg/L	2.42 NTU	-24.7 mV	22.30 ft	100.00 ml/min
3/3/2022 1:40 PM	40:00	7.61 pH	18.04 °C	194.41 µS/cm	5.21 mg/L	2.22 NTU	-11.7 mV	22.30 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 2:22:07 PM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 24.78 ft Total Depth: 34.78 ft Initial Depth to Water: 19.13 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 29 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 3.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sunny, 70s, sample time-1452, DUP-2 here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 10	+/- 0.3	
3/3/2022 2:22 PM	00:00	7.72 pH	22.57 °C	0.00 µS/cm	8.54 mg/L	6.28 NTU	87.6 mV	19.13 ft	250.00 ml/min
3/3/2022 2:27 PM	05:00	5.44 pH	18.35 °C	264.15 µS/cm	6.80 mg/L	6.11 NTU	117.2 mV	19.40 ft	250.00 ml/min
3/3/2022 2:32 PM	10:00	5.23 pH	17.29 °C	239.73 µS/cm	4.61 mg/L	5.65 NTU	182.1 mV	19.40 ft	250.00 ml/min
3/3/2022 2:37 PM	15:00	5.22 pH	17.24 °C	238.27 µS/cm	4.40 mg/L	5.37 NTU	127.8 mV	19.40 ft	250.00 ml/min
3/3/2022 2:42 PM	20:00	5.22 pH	17.50 °C	242.45 µS/cm	4.36 mg/L	4.71 NTU	166.1 mV	19.40 ft	250.00 ml/min
3/3/2022 2:47 PM	25:00	5.21 pH	17.60 °C	238.82 µS/cm	4.36 mg/L	2.80 NTU	117.8 mV	19.40 ft	250.00 ml/min
3/3/2022 2:52 PM	30:00	5.22 pH	17.44 °C	239.07 µS/cm	4.33 mg/L	2.72 NTU	112.9 mV	19.40 ft	250.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/4/2022 10:42:13 AM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWC-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85.94 ft Total Depth: 95.94 ft Initial Depth to Water: 29.8 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.2 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sample collected at 1114, sunny 70s, Dup-3 here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 10	+/- 25	+/- 0.3	
3/4/2022 10:42 AM	00:00	6.67 pH	17.67 °C	86.29 µS/cm	7.66 mg/L	4.84 NTU	24.4 mV	29.80 ft	200.00 ml/min
3/4/2022 10:47 AM	05:00	6.19 pH	17.09 °C	89.58 µS/cm	0.28 mg/L	3.49 NTU	-12.1 mV	30.60 ft	200.00 ml/min
3/4/2022 10:52 AM	10:00	6.21 pH	17.04 °C	90.70 µS/cm	0.33 mg/L	4.59 NTU	-29.7 mV	30.80 ft	200.00 ml/min
3/4/2022 10:57 AM	15:00	6.21 pH	16.96 °C	91.21 µS/cm	0.27 mg/L	3.23 NTU	-19.1 mV	30.90 ft	200.00 ml/min
3/4/2022 11:02 AM	20:00	6.21 pH	17.10 °C	91.49 µS/cm	0.24 mg/L	3.44 NTU	-20.7 mV	30.90 ft	200.00 ml/min
3/4/2022 11:07 AM	25:00	6.21 pH	17.10 °C	91.74 µS/cm	0.21 mg/L	2.29 NTU	-20.3 mV	31.00 ft	200.00 ml/min
3/4/2022 11:12 AM	30:00	6.21 pH	17.16 °C	91.86 µS/cm	0.20 mg/L	2.90 NTU	-18.8 mV	31.00 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 1:30:09 PM

Project: Plant Wansley Ash Pond

Operator Name: A Schnittker

Location Name: WGWC-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 85 ft Total Depth: 94.84 ft Initial Depth to Water: 19.71 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 90 ft Estimated Total Volume Pumped: 8.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 17 in	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Sample time 1405. Sunny 70.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
3/3/2022 1:30 PM	00:00	6.58 pH	18.82 °C	87.55 µS/cm	0.32 mg/L	0.83 NTU	49.8 mV	19.71 ft	200.00 ml/min
3/3/2022 1:35 PM	05:00	6.63 pH	18.92 °C	87.59 µS/cm	0.14 mg/L	0.99 NTU	55.2 mV	20.90 ft	200.00 ml/min
3/3/2022 1:40 PM	10:00	6.64 pH	18.88 °C	87.25 µS/cm	0.08 mg/L	1.38 NTU	56.2 mV	21.00 ft	200.00 ml/min
3/3/2022 1:45 PM	15:00	6.65 pH	18.81 °C	87.75 µS/cm	0.06 mg/L	1.23 NTU	56.4 mV	21.00 ft	200.00 ml/min
3/3/2022 1:50 PM	20:00	6.66 pH	18.59 °C	89.33 µS/cm	0.08 mg/L	1.19 NTU	57.6 mV	21.10 ft	200.00 ml/min
3/3/2022 1:55 PM	25:00	6.68 pH	18.43 °C	90.51 µS/cm	0.08 mg/L	1.12 NTU	57.2 mV	21.10 ft	200.00 ml/min
3/3/2022 2:00 PM	30:00	6.69 pH	18.52 °C	91.96 µS/cm	0.09 mg/L	1.06 NTU	56.3 mV	21.10 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/4/2022 11:31:04 AM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.87 ft Total Depth: 43.87 ft Initial Depth to Water: 28.64 ft	Pump Type: QED bladder pump Tubing Type: Poly Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 4.3 in	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sunny, 70s, sample time-1211, FB-3 here at 1150

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 25	+/- 0.3	
3/4/2022 11:31 AM	00:00	5.69 pH	21.88 °C	0.00 µS/cm	8.79 mg/L	1.99 NTU	105.9 mV	28.64 ft	150.00 ml/min
3/4/2022 11:36 AM	05:00	5.36 pH	21.19 °C	1,391.6 µS/cm	6.54 mg/L	1.20 NTU	147.2 mV	28.80 ft	150.00 ml/min
3/4/2022 11:41 AM	10:00	5.24 pH	21.73 °C	1,395.0 µS/cm	4.57 mg/L	1.29 NTU	122.6 mV	28.80 ft	150.00 ml/min
3/4/2022 11:46 AM	15:00	5.27 pH	22.35 °C	1,383.0 µS/cm	4.66 mg/L	1.77 NTU	109.6 mV	28.90 ft	150.00 ml/min
3/4/2022 11:51 AM	20:00	5.28 pH	22.70 °C	1,398.6 µS/cm	4.78 mg/L	1.35 NTU	137.2 mV	28.90 ft	150.00 ml/min
3/4/2022 11:56 AM	25:00	5.27 pH	23.75 °C	1,398.2 µS/cm	4.77 mg/L	0.88 NTU	135.7 mV	29.00 ft	150.00 ml/min
3/4/2022 12:01 PM	30:00	5.25 pH	24.52 °C	1,381.2 µS/cm	4.40 mg/L	0.96 NTU	99.6 mV	29.00 ft	150.00 ml/min
3/4/2022 12:06 PM	35:00	5.24 pH	24.74 °C	1,375.3 µS/cm	4.14 mg/L	1.01 NTU	132.1 mV	29.00 ft	150.00 ml/min
3/4/2022 12:11 PM	40:00	5.23 pH	25.15 °C	1,373.2 µS/cm	4.00 mg/L	0.92 NTU	134.7 mV	29.00 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 2:50:07 PM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWC-21 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 61.75 ft Total Depth: 71.75 ft Initial Depth to Water: 49.2 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 66 ft Estimated Total Volume Pumped: 11875 ml Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 9.5 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sample collected at 1627, sunny 70s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 10	+/- 25	+/- 0.3	
3/3/2022 2:50 PM	00:00	6.78 pH	20.35 °C	667.05 µS/cm	5.31 mg/L	3.98 NTU	14.2 mV	49.20 ft	125.00 ml/min
3/3/2022 2:55 PM	05:00	6.89 pH	19.11 °C	987.85 µS/cm	1.74 mg/L	1.14 NTU	-20.6 mV	50.70 ft	125.00 ml/min
3/3/2022 3:00 PM	10:00	6.96 pH	18.55 °C	1,059.6 µS/cm	0.79 mg/L	2.20 NTU	-31.8 mV	51.40 ft	125.00 ml/min
3/3/2022 3:05 PM	15:00	6.98 pH	18.66 °C	1,005.4 µS/cm	0.49 mg/L	2.01 NTU	-43.2 mV	52.40 ft	125.00 ml/min
3/3/2022 3:10 PM	20:00	6.96 pH	18.57 °C	949.09 µS/cm	0.43 mg/L	1.79 NTU	-41.0 mV	53.20 ft	125.00 ml/min
3/3/2022 3:15 PM	25:00	6.95 pH	18.97 °C	930.67 µS/cm	0.53 mg/L	1.43 NTU	-36.0 mV	53.70 ft	125.00 ml/min
3/3/2022 3:20 PM	30:00	6.94 pH	19.21 °C	912.58 µS/cm	0.64 mg/L	1.47 NTU	-32.6 mV	54.10 ft	125.00 ml/min
3/3/2022 3:25 PM	35:00	6.94 pH	19.25 °C	905.63 µS/cm	0.67 mg/L	1.80 NTU	-28.3 mV	54.30 ft	125.00 ml/min
3/3/2022 3:30 PM	40:00	6.93 pH	19.20 °C	895.27 µS/cm	0.68 mg/L	1.74 NTU	-24.2 mV	54.70 ft	125.00 ml/min
3/3/2022 3:35 PM	45:00	6.93 pH	19.15 °C	884.55 µS/cm	0.67 mg/L	1.00 NTU	-21.1 mV	54.90 ft	125.00 ml/min
3/3/2022 3:40 PM	50:00	6.93 pH	19.58 °C	876.88 µS/cm	0.67 mg/L	0.93 NTU	-27.8 mV	55.10 ft	125.00 ml/min
3/3/2022 3:45 PM	55:00	6.92 pH	19.05 °C	860.98 µS/cm	0.54 mg/L	0.71 NTU	-18.5 mV	55.70 ft	125.00 ml/min
3/3/2022 3:50 PM	01:00:00	6.91 pH	18.72 °C	873.51 µS/cm	0.52 mg/L	0.67 NTU	-16.4 mV	56.30 ft	125.00 ml/min
3/3/2022 3:55 PM	01:05:00	6.91 pH	19.22 °C	851.21 µS/cm	0.48 mg/L	0.71 NTU	-15.0 mV	56.90 ft	125.00 ml/min
3/3/2022 4:00 PM	01:10:00	6.90 pH	19.28 °C	834.95 µS/cm	0.44 mg/L	0.65 NTU	-21.5 mV	57.50 ft	125.00 ml/min

3/3/2022 4:05 PM	01:15:00	6.90 pH	18.79 °C	822.22 µS/cm	0.41 mg/L	0.42 NTU	-14.1 mV	58.00 ft	125.00 ml/min
3/3/2022 4:10 PM	01:20:00	6.89 pH	18.84 °C	809.04 µS/cm	0.39 mg/L	0.67 NTU	-13.5 mV	58.30 ft	125.00 ml/min
3/3/2022 4:15 PM	01:25:00	6.88 pH	18.88 °C	793.86 µS/cm	0.39 mg/L	0.55 NTU	-13.5 mV	58.50 ft	125.00 ml/min
3/3/2022 4:20 PM	01:30:00	6.88 pH	18.88 °C	775.70 µS/cm	0.39 mg/L	0.89 NTU	-13.5 mV	58.60 ft	125.00 ml/min
3/3/2022 4:25 PM	01:35:00	6.88 pH	18.97 °C	760.59 µS/cm	0.42 mg/L	0.31 NTU	-13.6 mV	58.70 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/4/2022 1:05:49 PM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.88 ft Total Depth: 43.88 ft Initial Depth to Water: 16.94 ft	Pump Type: QED bladder pump Tubing Type: Poly Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 5.6 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 29.5 in	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sunny, 70s, sample time-1350

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 10	+/- 5 %	+/- 10 %	+/- 5	+/- 25	+/- 0.3	
3/4/2022 1:05 PM	00:00	5.84 pH	40.63 °C	0.00 µS/cm	6.40 mg/L	6.11 NTU	193.6 mV	16.94 ft	125.00 ml/min
3/4/2022 1:10 PM	05:00	5.51 pH	25.51 °C	311.22 µS/cm	6.31 mg/L	5.43 NTU	5.0 mV	17.30 ft	125.00 ml/min
3/4/2022 1:15 PM	10:00	5.37 pH	24.36 °C	308.29 µS/cm	3.38 mg/L	5.20 NTU	52.6 mV	17.50 ft	125.00 ml/min
3/4/2022 1:20 PM	15:00	5.36 pH	24.04 °C	305.60 µS/cm	2.63 mg/L	5.33 NTU	87.4 mV	17.80 ft	125.00 ml/min
3/4/2022 1:25 PM	20:00	5.36 pH	23.66 °C	304.03 µS/cm	2.44 mg/L	5.28 NTU	66.4 mV	18.20 ft	125.00 ml/min
3/4/2022 1:30 PM	25:00	5.36 pH	21.67 °C	300.17 µS/cm	2.80 mg/L	5.92 NTU	89.8 mV	18.60 ft	125.00 ml/min
3/4/2022 1:35 PM	30:00	5.34 pH	20.97 °C	301.93 µS/cm	1.46 mg/L	6.78 NTU	89.8 mV	19.20 ft	125.00 ml/min
3/4/2022 1:40 PM	35:00	5.34 pH	21.03 °C	301.98 µS/cm	1.39 mg/L	5.64 NTU	89.5 mV	19.30 ft	125.00 ml/min
3/4/2022 1:45 PM	40:00	5.34 pH	21.07 °C	302.18 µS/cm	1.32 mg/L	4.92 NTU	89.8 mV	19.40 ft	125.00 ml/min
3/4/2022 1:50 PM	45:00	5.34 pH	21.06 °C	301.17 µS/cm	1.27 mg/L	4.66 NTU	90.3 mV	19.40 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/4/2022 9:15:16 AM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWC-23 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.7 ft Total Depth: 53.7 ft Initial Depth to Water: 30.55 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 3900 ml Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 0.65 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sample collected at 0947, sunny 50s, second extra rad here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 10	+/- 25	+/- 0.3	
3/4/2022 9:15 AM	00:00	6.07 pH	14.21 °C	88.43 µS/cm	6.14 mg/L	1.99 NTU	121.5 mV	30.55 ft	130.00 ml/min
3/4/2022 9:20 AM	05:00	5.75 pH	16.57 °C	80.81 µS/cm	4.59 mg/L	2.15 NTU	88.9 mV	31.10 ft	130.00 ml/min
3/4/2022 9:25 AM	10:00	5.72 pH	16.83 °C	78.46 µS/cm	4.28 mg/L	2.43 NTU	84.2 mV	31.20 ft	130.00 ml/min
3/4/2022 9:30 AM	15:00	5.71 pH	16.83 °C	77.63 µS/cm	4.13 mg/L	1.87 NTU	80.8 mV	31.20 ft	130.00 ml/min
3/4/2022 9:35 AM	20:00	5.73 pH	16.96 °C	79.80 µS/cm	4.02 mg/L	1.80 NTU	78.8 mV	31.20 ft	130.00 ml/min
3/4/2022 9:40 AM	25:00	5.75 pH	16.99 °C	81.59 µS/cm	4.00 mg/L	1.41 NTU	76.2 mV	31.20 ft	130.00 ml/min
3/4/2022 9:45 AM	30:00	5.74 pH	17.03 °C	82.57 µS/cm	4.03 mg/L	1.02 NTU	75.5 mV	31.20 ft	130.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/3/2022 1:14:21 PM

Project: Plant Wansley Ash Pond

Operator Name: Toby Johnson

Location Name: WGWC-24 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.75 ft Total Depth: 40.75 ft Initial Depth to Water: 13.04 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 11250 ml Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 0.26 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sample collect at 1406, sunny 70s, first extra rad here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 0.2	+/- 10	+/- 25	+/- 0.3	
3/3/2022 1:14 PM	00:00	4.42 pH	20.30 °C	403.85 µS/cm	2.45 mg/L	1.14 NTU	184.9 mV	13.04 ft	225.00 ml/min
3/3/2022 1:19 PM	05:00	4.40 pH	19.37 °C	400.53 µS/cm	1.74 mg/L	1.23 NTU	150.9 mV	13.20 ft	225.00 ml/min
3/3/2022 1:24 PM	10:00	4.39 pH	19.34 °C	406.92 µS/cm	1.32 mg/L	2.66 NTU	138.8 mV	13.20 ft	225.00 ml/min
3/3/2022 1:29 PM	15:00	4.39 pH	19.28 °C	402.36 µS/cm	1.20 mg/L	2.19 NTU	177.1 mV	13.30 ft	225.00 ml/min
3/3/2022 1:34 PM	20:00	4.39 pH	19.22 °C	401.85 µS/cm	1.22 mg/L	2.02 NTU	132.5 mV	13.30 ft	225.00 ml/min
3/3/2022 1:39 PM	25:00	4.39 pH	19.18 °C	408.24 µS/cm	1.16 mg/L	2.19 NTU	125.6 mV	13.30 ft	225.00 ml/min
3/3/2022 1:44 PM	30:00	4.38 pH	19.15 °C	401.66 µS/cm	1.07 mg/L	1.73 NTU	120.5 mV	13.30 ft	225.00 ml/min
3/3/2022 1:49 PM	35:00	4.38 pH	19.19 °C	403.11 µS/cm	1.01 mg/L	1.59 NTU	122.5 mV	13.30 ft	225.00 ml/min
3/3/2022 1:54 PM	40:00	4.39 pH	19.12 °C	404.23 µS/cm	1.22 mg/L	1.20 NTU	118.8 mV	13.30 ft	225.00 ml/min
3/3/2022 1:59 PM	45:00	4.39 pH	19.25 °C	401.03 µS/cm	1.16 mg/L	1.31 NTU	120.4 mV	13.30 ft	225.00 ml/min
3/3/2022 2:04 PM	50:00	4.39 pH	19.17 °C	403.06 µS/cm	1.19 mg/L	1.02 NTU	119.0 mV	13.30 ft	225.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/4/2022 10:15:21 AM

Project: Plant Wansley Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-25 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.83 ft Total Depth: 39.83 ft Initial Depth to Water: 17.05 ft	Pump Type: QED bladder pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 884189
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Test Notes:

Sunny, 60s, sample time-1050

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 5	+/- 25	+/- 0.3	
3/4/2022 10:15 AM	00:00	6.54 pH	23.88 °C	0.00 µS/cm	8.46 mg/L	1.78 NTU	84.9 mV	17.05 ft	200.00 ml/min
3/4/2022 10:20 AM	05:00	5.20 pH	17.07 °C	294.18 µS/cm	2.11 mg/L	2.21 NTU	164.2 mV	17.30 ft	200.00 ml/min
3/4/2022 10:25 AM	10:00	5.20 pH	16.96 °C	289.82 µS/cm	1.19 mg/L	1.94 NTU	185.6 mV	17.30 ft	200.00 ml/min
3/4/2022 10:30 AM	15:00	5.20 pH	16.92 °C	286.25 µS/cm	0.65 mg/L	2.94 NTU	175.2 mV	17.30 ft	200.00 ml/min
3/4/2022 10:35 AM	20:00	5.20 pH	17.10 °C	283.79 µS/cm	0.53 mg/L	1.77 NTU	130.1 mV	17.30 ft	200.00 ml/min
3/4/2022 10:40 AM	25:00	5.21 pH	17.30 °C	283.71 µS/cm	0.49 mg/L	2.22 NTU	121.8 mV	17.30 ft	200.00 ml/min
3/4/2022 10:45 AM	30:00	5.21 pH	17.41 °C	283.93 µS/cm	0.46 mg/L	2.89 NTU	147.4 mV	17.30 ft	200.00 ml/min
3/4/2022 10:50 AM	35:00	5.21 pH	17.23 °C	282.31 µS/cm	0.45 mg/L	1.75 NTU	125.5 mV	17.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/4/2022 1:41:38 PM

Project: Plant Wansley (2)

Operator Name: A Schnittker

Location Name: WCR(+0.1)	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Sampled at 1345 on 3-4-22. Sunny , 70s. Equipment blank here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3
3/4/2022 1:41 PM	00:00	7.26 pH	21.38 °C	64.92 µS/cm	9.36 mg/L		108.7 mV	
3/4/2022 1:43 PM	02:00	7.26 pH	21.38 °C	65.70 µS/cm	9.56 mg/L	13.00 NTU	102.4 mV	

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/4/2022 12:39:15 PM

Project: Plant Wansley

Operator Name: A Schnittker

Location Name: WCR(+1.9)	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Sampled at 1230 on 3-4-22. Sunny 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3
3/4/2022 12:39 PM	00:00	6.79 pH	19.15 °C	64.20 µS/cm	8.81 mg/L		99.1 mV	
3/4/2022 12:41 PM	02:00	6.88 pH	18.92 °C	65.46 µS/cm	9.11 mg/L	10.20 NTU	111.9 mV	

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 3/4/2022 2:19:30 PM

Project: Plant Wansley

Operator Name: A Schnittker

Location Name: WCR(-0.6)	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3
3/4/2022 2:19 PM	00:00	7.29 pH	21.82 °C	87.05 µS/cm	9.15 mg/L	10.00 NTU	105.7 mV	
3/4/2022 2:21 PM	02:00	7.31 pH	21.27 °C	89.53 µS/cm	9.75 mg/L	14.10 NTU	118.0 mV	

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 6/7/2022 9:35:09 AM

Project: Plant Wansley - Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.85 ft Total Depth: 42.85 ft Initial Depth to Water: 27.97 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Cloudy, 70s, sample time-1005

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
6/7/2022 9:35 AM	00:00	7.46 pH	25.33 °C	0.00 µS/cm	7.98 mg/L	2.07 NTU	100.2 mV	27.97 ft	150.00 ml/min
6/7/2022 9:40 AM	05:00	5.47 pH	23.43 °C	1,384.6 µS/cm	6.49 mg/L	1.15 NTU	136.1 mV	28.10 ft	150.00 ml/min
6/7/2022 9:45 AM	10:00	5.38 pH	22.44 °C	1,219.6 µS/cm	5.08 mg/L	1.05 NTU	138.3 mV	28.10 ft	150.00 ml/min
6/7/2022 9:50 AM	15:00	5.38 pH	22.43 °C	1,225.2 µS/cm	5.04 mg/L	0.71 NTU	104.9 mV	28.20 ft	150.00 ml/min
6/7/2022 9:55 AM	20:00	5.37 pH	22.00 °C	1,207.9 µS/cm	4.79 mg/L	0.55 NTU	120.3 mV	28.20 ft	150.00 ml/min
6/7/2022 10:00 AM	25:00	5.37 pH	21.75 °C	1,175.3 µS/cm	4.68 mg/L	0.83 NTU	98.8 mV	28.20 ft	150.00 ml/min
6/7/2022 10:05 AM	30:00	5.37 pH	21.51 °C	1,166.7 µS/cm	4.51 mg/L	0.91 NTU	115.8 mV	28.20 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 6/6/2022 1:05:02 PM

Project: Plant Wansley - Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-21 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 61.72 ft Total Depth: 71.72 ft Initial Depth to Water: 49.63 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 66 ft Estimated Total Volume Pumped: 40.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 190.4 in	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sunny, sample time 1605

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
6/6/2022 1:05 PM	00:00	5.67 pH	31.96 °C	5.11 µS/cm	7.11 mg/L	3.88 NTU	291.8 mV	49.63 ft	225.00 ml/min
6/6/2022 1:10 PM	05:00	7.42 pH	26.28 °C	869.24 µS/cm	8.65 mg/L	2.19 NTU	157.8 mV	50.70 ft	225.00 ml/min
6/6/2022 1:15 PM	10:00	7.05 pH	23.65 °C	939.89 µS/cm	5.59 mg/L	3.06 NTU	98.0 mV	51.30 ft	225.00 ml/min
6/6/2022 1:20 PM	15:00	6.75 pH	21.31 °C	1,084.8 µS/cm	1.98 mg/L	3.26 NTU	-40.7 mV	51.80 ft	225.00 ml/min
6/6/2022 1:25 PM	20:00	6.74 pH	20.88 °C	1,112.3 µS/cm	1.41 mg/L	4.91 NTU	-54.4 mV	52.40 ft	225.00 ml/min
6/6/2022 1:30 PM	25:00	6.71 pH	20.28 °C	1,067.1 µS/cm	0.89 mg/L	8.43 NTU	-60.8 mV	52.90 ft	225.00 ml/min
6/6/2022 1:35 PM	30:00	6.67 pH	19.92 °C	977.23 µS/cm	0.74 mg/L	5.00 NTU	-41.9 mV	53.40 ft	225.00 ml/min
6/6/2022 1:40 PM	35:00	6.67 pH	19.87 °C	956.96 µS/cm	0.76 mg/L	7.37 NTU	-39.4 mV	55.40 ft	225.00 ml/min
6/6/2022 1:45 PM	40:00	6.66 pH	20.13 °C	958.31 µS/cm	0.78 mg/L	2.11 NTU	-37.5 mV	56.00 ft	225.00 ml/min
6/6/2022 1:50 PM	45:00	6.66 pH	20.00 °C	947.46 µS/cm	0.78 mg/L	2.07 NTU	-37.1 mV	56.80 ft	225.00 ml/min
6/6/2022 1:55 PM	50:00	6.65 pH	19.90 °C	937.87 µS/cm	0.77 mg/L	1.37 NTU	-37.7 mV	57.60 ft	225.00 ml/min
6/6/2022 2:00 PM	55:00	6.64 pH	19.90 °C	921.47 µS/cm	0.78 mg/L	1.90 NTU	-50.3 mV	58.20 ft	225.00 ml/min
6/6/2022 2:05 PM	01:00:00	6.65 pH	19.88 °C	909.40 µS/cm	1.02 mg/L	1.92 NTU	-51.9 mV	59.00 ft	225.00 ml/min
6/6/2022 2:10 PM	01:05:00	6.68 pH	20.21 °C	895.77 µS/cm	1.46 mg/L	2.43 NTU	-49.7 mV	59.70 ft	225.00 ml/min
6/6/2022 2:15 PM	01:10:00	6.68 pH	20.55 °C	884.54 µS/cm	1.80 mg/L	3.85 NTU	-46.7 mV	60.30 ft	225.00 ml/min

6/6/2022 2:20 PM	01:15:00	6.67 pH	20.86 °C	870.53 µS/cm	1.91 mg/L	3.36 NTU	-44.4 mV	60.80 ft	225.00 ml/min
6/6/2022 2:25 PM	01:20:00	6.67 pH	21.19 °C	864.37 µS/cm	1.94 mg/L	2.59 NTU	-32.5 mV	61.00 ft	225.00 ml/min
6/6/2022 2:30 PM	01:25:00	6.66 pH	21.55 °C	851.18 µS/cm	1.97 mg/L	2.22 NTU	-30.7 mV	61.20 ft	225.00 ml/min
6/6/2022 2:35 PM	01:30:00	6.68 pH	21.55 °C	878.22 µS/cm	2.09 mg/L	3.34 NTU	-33.0 mV	61.40 ft	225.00 ml/min
6/6/2022 2:40 PM	01:35:00	6.69 pH	21.86 °C	927.28 µS/cm	1.98 mg/L	2.01 NTU	-25.9 mV	61.60 ft	225.00 ml/min
6/6/2022 2:45 PM	01:40:00	6.69 pH	21.69 °C	972.18 µS/cm	1.70 mg/L	1.22 NTU	-21.6 mV	61.90 ft	225.00 ml/min
6/6/2022 2:50 PM	01:45:00	6.69 pH	21.28 °C	999.30 µS/cm	1.39 mg/L	1.39 NTU	-19.0 mV	62.20 ft	225.00 ml/min
6/6/2022 2:55 PM	01:50:00	6.70 pH	21.57 °C	1,023.0 µS/cm	1.18 mg/L	2.08 NTU	-12.4 mV	62.60 ft	225.00 ml/min
6/6/2022 3:00 PM	01:55:00	6.70 pH	22.18 °C	1,039.6 µS/cm	1.10 mg/L	3.11 NTU	-11.8 mV	62.90 ft	225.00 ml/min
6/6/2022 3:05 PM	02:00:00	6.71 pH	22.22 °C	1,035.9 µS/cm	1.02 mg/L	2.48 NTU	-17.1 mV	63.60 ft	225.00 ml/min
6/6/2022 3:10 PM	02:05:00	6.71 pH	22.18 °C	1,020.1 µS/cm	1.01 mg/L	2.63 NTU	-17.6 mV	64.20 ft	225.00 ml/min
6/6/2022 3:15 PM	02:10:00	6.71 pH	22.12 °C	1,021.2 µS/cm	1.01 mg/L	3.82 NTU	-13.5 mV	64.70 ft	225.00 ml/min
6/6/2022 3:20 PM	02:15:00	6.71 pH	22.15 °C	994.45 µS/cm	1.01 mg/L	3.21 NTU	-16.0 mV	65.00 ft	225.00 ml/min
6/6/2022 3:25 PM	02:20:00	6.70 pH	21.73 °C	970.40 µS/cm	0.96 mg/L	2.05 NTU	-19.8 mV	65.40 ft	225.00 ml/min
6/6/2022 3:30 PM	02:25:00	6.70 pH	21.60 °C	956.56 µS/cm	0.88 mg/L	1.29 NTU	-29.4 mV	65.40 ft	225.00 ml/min
6/6/2022 3:35 PM	02:30:00	6.69 pH	21.77 °C	952.22 µS/cm	0.80 mg/L	2.48 NTU	-33.1 mV	65.50 ft	225.00 ml/min
6/6/2022 3:40 PM	02:35:00	6.69 pH	23.34 °C	956.76 µS/cm	0.76 mg/L	2.28 NTU	-28.7 mV	65.50 ft	225.00 ml/min
6/6/2022 3:45 PM	02:40:00	6.69 pH	23.58 °C	957.68 µS/cm	0.74 mg/L	2.85 NTU	-29.9 mV	65.50 ft	225.00 ml/min
6/6/2022 3:50 PM	02:45:00	6.70 pH	23.65 °C	969.51 µS/cm	0.75 mg/L	2.07 NTU	-39.9 mV	65.50 ft	225.00 ml/min
6/6/2022 3:55 PM	02:50:00	6.70 pH	24.42 °C	964.94 µS/cm	0.79 mg/L	2.11 NTU	-34.8 mV	65.50 ft	225.00 ml/min
6/6/2022 4:00 PM	02:55:00	6.69 pH	24.80 °C	960.91 µS/cm	0.83 mg/L	2.77 NTU	-34.5 mV	65.50 ft	225.00 ml/min
6/6/2022 4:05 PM	03:00:00	6.69 pH	25.19 °C	962.00 µS/cm	0.88 mg/L	2.94 NTU	-33.3 mV	65.50 ft	225.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 6/7/2022 10:30:25 AM

Project: Plant Wansley - Ash Pond

Operator Name: Jordan Berisford

Location Name: WGWC-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.99 ft Total Depth: 43.99 ft Initial Depth to Water: 19.4 ft	Pump Type: Bladder Pump Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 12.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 64 in	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Sunny, 80s, sample time -1210

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
6/7/2022 10:30 AM	00:00	6.11 pH	25.11 °C	186.86 µS/cm	7.97 mg/L	3.33 NTU	106.5 mV	19.40 ft	125.00 ml/min
6/7/2022 10:35 AM	05:00	5.53 pH	22.67 °C	329.58 µS/cm	3.77 mg/L	2.40 NTU	61.7 mV	19.90 ft	125.00 ml/min
6/7/2022 10:40 AM	10:00	5.45 pH	22.22 °C	293.39 µS/cm	2.66 mg/L	3.81 NTU	78.6 mV	20.50 ft	125.00 ml/min
6/7/2022 10:45 AM	15:00	5.44 pH	22.36 °C	293.14 µS/cm	2.51 mg/L	2.52 NTU	78.0 mV	20.90 ft	125.00 ml/min
6/7/2022 10:50 AM	20:00	5.43 pH	20.26 °C	270.48 µS/cm	1.94 mg/L	2.11 NTU	95.2 mV	21.60 ft	125.00 ml/min
6/7/2022 10:55 AM	25:00	5.42 pH	19.86 °C	272.77 µS/cm	2.00 mg/L	4.21 NTU	97.4 mV	22.00 ft	125.00 ml/min
6/7/2022 11:00 AM	30:00	5.41 pH	19.96 °C	269.39 µS/cm	1.59 mg/L	2.98 NTU	97.8 mV	22.70 ft	125.00 ml/min
6/7/2022 11:05 AM	35:00	5.41 pH	19.76 °C	266.94 µS/cm	1.42 mg/L	3.21 NTU	98.3 mV	23.20 ft	125.00 ml/min
6/7/2022 11:10 AM	40:00	5.41 pH	19.86 °C	266.86 µS/cm	1.30 mg/L	2.07 NTU	99.8 mV	23.90 ft	125.00 ml/min
6/7/2022 11:15 AM	45:00	5.41 pH	20.18 °C	267.89 µS/cm	1.24 mg/L	3.05 NTU	83.2 mV	24.00 ft	125.00 ml/min
6/7/2022 11:20 AM	50:00	5.41 pH	20.47 °C	265.91 µS/cm	1.22 mg/L	3.75 NTU	81.5 mV	24.20 ft	125.00 ml/min
6/7/2022 11:25 AM	55:00	5.41 pH	20.45 °C	265.64 µS/cm	1.20 mg/L	1.86 NTU	81.0 mV	24.40 ft	125.00 ml/min
6/7/2022 11:30 AM	01:00:00	5.41 pH	20.66 °C	266.50 µS/cm	1.20 mg/L	1.28 NTU	80.3 mV	24.70 ft	125.00 ml/min
6/7/2022 11:35 AM	01:05:00	5.41 pH	20.41 °C	265.23 µS/cm	1.19 mg/L	1.20 NTU	80.2 mV	24.80 ft	125.00 ml/min
6/7/2022 11:40 AM	01:10:00	5.41 pH	20.65 °C	266.87 µS/cm	1.18 mg/L	1.49 NTU	79.8 mV	24.80 ft	125.00 ml/min

6/7/2022 11:45 AM	01:15:00	5.41 pH	20.32 °C	266.13 µS/cm	1.18 mg/L	1.84 NTU	94.0 mV	24.80 ft	125.00 ml/min
6/7/2022 11:50 AM	01:20:00	5.41 pH	20.13 °C	265.52 µS/cm	1.18 mg/L	2.01 NTU	81.3 mV	24.80 ft	125.00 ml/min
6/7/2022 11:55 AM	01:25:00	5.41 pH	20.13 °C	266.21 µS/cm	1.18 mg/L	2.22 NTU	79.7 mV	24.80 ft	125.00 ml/min
6/7/2022 12:00 PM	01:30:00	5.41 pH	20.17 °C	265.26 µS/cm	1.19 mg/L	1.92 NTU	93.0 mV	24.80 ft	125.00 ml/min
6/7/2022 12:05 PM	01:35:00	5.41 pH	20.16 °C	266.17 µS/cm	1.17 mg/L	1.11 NTU	80.4 mV	24.80 ft	125.00 ml/min
6/7/2022 12:10 PM	01:40:00	5.41 pH	20.30 °C	265.60 µS/cm	1.19 mg/L	1.14 NTU	92.9 mV	24.80 ft	125.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 6/6/2022 2:30:11 PM

Project: Plant Wansley - Ash Pond

Operator Name: A Schnittker

Location Name: WGWC-23 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 43.7 ft Total Depth: 53.7 ft Initial Depth to Water: 31.27 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 48 ft Estimated Total Volume Pumped: 6.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 9 in	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Sample time 15:05. Sunny 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
6/6/2022 2:30 PM	00:00	5.73 pH	19.20 °C	81.55 µS/cm	5.17 mg/L	2.92 NTU	163.5 mV	31.27 ft	150.00 ml/min
6/6/2022 2:35 PM	05:00	5.70 pH	18.92 °C	80.76 µS/cm	4.61 mg/L	2.89 NTU	128.8 mV	32.00 ft	150.00 ml/min
6/6/2022 2:40 PM	10:00	5.71 pH	18.97 °C	80.82 µS/cm	4.54 mg/L	2.83 NTU	122.0 mV	32.00 ft	150.00 ml/min
6/6/2022 2:45 PM	15:00	5.71 pH	19.01 °C	80.86 µS/cm	4.56 mg/L	2.77 NTU	120.5 mV	32.00 ft	150.00 ml/min
6/6/2022 2:50 PM	20:00	5.72 pH	18.87 °C	80.95 µS/cm	4.55 mg/L	2.46 NTU	119.2 mV	32.00 ft	150.00 ml/min
6/6/2022 2:55 PM	25:00	5.72 pH	18.98 °C	82.16 µS/cm	4.54 mg/L	2.18 NTU	119.0 mV	32.00 ft	150.00 ml/min
6/6/2022 3:00 PM	30:00	5.73 pH	19.23 °C	82.95 µS/cm	4.51 mg/L	1.81 NTU	119.9 mV	32.00 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 6/6/2022 12:50:30 PM

Project: Plant Wansley - Ash Pond

Operator Name: A Schnittker

Location Name: WGWC-24 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.75 ft Total Depth: 40.75 ft Initial Depth to Water: 15.63 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 225 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Sample time 1330. Cloudy, showers 70s. FB-1 here @ 1345.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
6/6/2022 12:50 PM	00:00	4.49 pH	20.39 °C	299.00 µS/cm	2.86 mg/L	18.30 NTU	192.5 mV	15.63 ft	225.00 ml/min
6/6/2022 12:55 PM	05:00	4.49 pH	19.23 °C	283.20 µS/cm	2.32 mg/L	11.70 NTU	159.5 mV	15.90 ft	225.00 ml/min
6/6/2022 1:00 PM	10:00	4.49 pH	19.01 °C	273.25 µS/cm	1.97 mg/L	9.97 NTU	148.2 mV	15.90 ft	225.00 ml/min
6/6/2022 1:05 PM	15:00	4.50 pH	19.01 °C	273.47 µS/cm	1.80 mg/L	6.24 NTU	141.9 mV	15.90 ft	225.00 ml/min
6/6/2022 1:10 PM	20:00	4.50 pH	18.94 °C	268.12 µS/cm	2.10 mg/L	5.48 NTU	137.6 mV	15.90 ft	225.00 ml/min
6/6/2022 1:15 PM	25:00	4.51 pH	18.99 °C	267.54 µS/cm	1.91 mg/L	4.84 NTU	135.2 mV	15.90 ft	225.00 ml/min
6/6/2022 1:20 PM	30:00	4.52 pH	19.01 °C	267.23 µS/cm	1.91 mg/L	3.08 NTU	133.4 mV	15.90 ft	225.00 ml/min
6/6/2022 1:25 PM	35:00	4.52 pH	19.01 °C	264.52 µS/cm	1.98 mg/L	2.37 NTU	132.6 mV	15.90 ft	225.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 6/7/2022 9:50:26 AM

Project: Plant Wansley - Ash Pond

Operator Name: A Schnittker

Location Name: WGWC-25 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29.8 ft Total Depth: 39.83 ft Initial Depth to Water: 17.76 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 15 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Sample time 1110. Overcast 70s. Dup-1 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
6/7/2022 9:50 AM	00:00	5.30 pH	18.88 °C	331.39 µS/cm	2.19 mg/L	40.60 NTU	201.1 mV	17.76 ft	200.00 ml/min
6/7/2022 9:55 AM	05:00	5.30 pH	18.03 °C	330.10 µS/cm	1.74 mg/L	37.90 NTU	221.6 mV	17.90 ft	200.00 ml/min
6/7/2022 10:00 AM	10:00	5.31 pH	17.94 °C	327.59 µS/cm	1.37 mg/L	35.10 NTU	209.0 mV	18.00 ft	200.00 ml/min
6/7/2022 10:05 AM	15:00	5.31 pH	17.85 °C	327.69 µS/cm	1.16 mg/L	27.40 NTU	201.3 mV	18.00 ft	200.00 ml/min
6/7/2022 10:10 AM	20:00	5.32 pH	17.85 °C	324.17 µS/cm	1.19 mg/L	22.20 NTU	162.4 mV	18.00 ft	200.00 ml/min
6/7/2022 10:15 AM	25:00	5.31 pH	17.84 °C	325.29 µS/cm	0.41 mg/L	19.60 NTU	181.8 mV	18.00 ft	200.00 ml/min
6/7/2022 10:20 AM	30:00	5.31 pH	17.88 °C	324.34 µS/cm	0.36 mg/L	15.40 NTU	178.8 mV	18.00 ft	200.00 ml/min
6/7/2022 10:25 AM	35:00	5.31 pH	17.92 °C	323.10 µS/cm	0.35 mg/L	14.10 NTU	175.6 mV	18.00 ft	200.00 ml/min
6/7/2022 10:30 AM	40:00	5.30 pH	17.91 °C	322.05 µS/cm	0.35 mg/L	13.90 NTU	173.5 mV	18.00 ft	200.00 ml/min
6/7/2022 10:35 AM	45:00	5.31 pH	17.99 °C	319.71 µS/cm	0.34 mg/L	11.10 NTU	145.2 mV	18.00 ft	200.00 ml/min
6/7/2022 10:40 AM	50:00	5.31 pH	17.99 °C	320.40 µS/cm	0.34 mg/L	9.61 NTU	164.0 mV	18.00 ft	200.00 ml/min
6/7/2022 10:45 AM	55:00	5.32 pH	18.06 °C	317.49 µS/cm	0.34 mg/L	7.41 NTU	139.6 mV	18.00 ft	200.00 ml/min
6/7/2022 10:50 AM	01:00:00	5.32 pH	18.08 °C	317.08 µS/cm	0.34 mg/L	6.34 NTU	135.7 mV	18.00 ft	200.00 ml/min
6/7/2022 10:55 AM	01:05:00	5.32 pH	18.07 °C	318.25 µS/cm	0.33 mg/L	5.28 NTU	154.7 mV	18.00 ft	200.00 ml/min
6/7/2022 11:00 AM	01:10:00	5.32 pH	18.28 °C	315.50 µS/cm	0.33 mg/L	5.13 NTU	133.8 mV	18.00 ft	200.00 ml/min

6/7/2022 11:05 AM	01:15:00	5.32 pH	18.19 °C	315.14 µS/cm	0.33 mg/L	4.80 NTU	130.8 mV	18.00 ft	200.00 ml/min
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Samples

Sample ID:	Description:
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Calibration Logs



Daily Instrument Calibration Log

SITE: H. Anid Plant Wansley
 TECHNICIAN: H. Anid
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 48832

INSTRUMENT S/N: 714344
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:

ID: <u>pH 4</u>	LOT #: <u>21150206</u>	EXP. DATE: <u>5/22</u>
ID: <u>pH 7</u>	LOT #: <u>16F007</u>	EXP. DATE: <u>6/23</u>
ID: <u>pH 10</u>	LOT #: <u>16D257</u>	EXP. DATE: <u>4/23</u>
ID: <u>Conductivity</u>	LOT #: <u>16D949</u>	EXP. DATE: <u>4/22</u>
ID: <u>ORP</u>	LOT #: <u>21140141</u>	EXP. DATE: <u>8/22</u>
ID:	LOT #:	EXP. DATE:
ID:	LOT #:	EXP. DATE:

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 1-11-22
 RDO: 100% sat. = 98.9 Midday pH check
 PH: 4.00 = 3.94 7.00 = 6.93 10.00 = 9.81 7.0 = 6.95
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 141.3 = 1610
 ORP (mV) 228 = 295

Calibration Date: 1-12-22
 RDO: 100% sat. = 100.67 Midday pH check
 PH: 4.00 = 4.41 7.00 = 7.21 10.00 = 10.78 7.0 = NA
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 141.3 = 1562
 ORP (mV) 228 = 242

only 1 well sampled

Calibration Date:
 RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =

Calibration Date:
 RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =

Calibration Date:
 RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =



Daily Instrument Calibration Log

SITE: Wansley AP
 TECHNICIAN: J. B. ...
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 267301

INSTRUMENT S/N: 714502
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:

ID: <u>pH 4</u>	LOT #: <u>21070143</u>	EXP. DATE: <u>8/22</u>
ID: <u>pH 7</u>	LOT #: <u>21010066</u>	EXP. DATE: <u>8/22</u>
ID: <u>pH 10</u>	LOT #: <u>21080189</u>	EXP. DATE: <u>6/22</u>
ID: <u>Cond</u>	LOT #: <u>160949</u>	EXP. DATE: <u>4/22</u>
ID: <u>ORP</u>	LOT #: <u>21140141</u>	EXP. DATE: <u>8/22</u>
ID: _____	LOT #: _____	EXP. DATE: _____
ID: _____	LOT #: _____	EXP. DATE: _____

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 1/11/22
 RDO: 100% sat. = 101.7 *Midday pH check*
 PH: 4.00 = 4.17 7.00 = 7.30 10.00 = 9.40 7.0 = 7.02
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: 1.413 mS/cm = 1.220
 ORP (mV) 228 = 236.1

Calibration Date:
 RDO: 100% sat. = _____ *Midday pH check*
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date:
 RDO: 100% sat. = _____ *Midday pH check*
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date:
 RDO: 100% sat. = _____ *Midday pH check*
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date:
 RDO: 100% sat. = _____ *Midday pH check*
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____



Daily Instrument Calibration Log

SITE: Plant Wamsley
 TECHNICIAN: A Schmittler
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 377060

INSTRUMENT S/N: 850762
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:
 ID: pH 4 LOT #: 00E1407 EXP. DATE: 9/22
 ID: pH 7 LOT #: 21010066 EXP. DATE: 8/22
 ID: pH 10 LOT #: 21010067 EXP. DATE: 2/22
 ID: Cond LOT #: 16D949 EXP. DATE: 4/22
 ID: ORP LOT #: 21140141 EXP. DATE: 8/22 **Midday pH check**
 ID: _____ LOT #: _____ EXP. DATE: _____ **Must be less than .10**
 ID: _____ LOT #: _____ EXP. DATE: _____ **(6.90-7.10 range)**
 Recalibrate if not within range

Calibration Date: 1/10/22
 RDO: 100% sat. = 99.98 **Midday pH check**
 PH: 4.00 = 4.09 7.00 = 6.99 10.00 = 10.16 7.0 = 6.98
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: 1.413 = 1796
 ORP (mV) 228. = 236.1

Calibration Date: 1/11/22
 RDO: 100% sat. = 105.1 **Midday pH check**
 PH: 4.00 = 4.04 7.00 = 7.06 10.00 = 10.19 7.0 = 7.02
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: 1413 = 1366.9
 ORP (mV) 228 = 250

Calibration Date: _____
 RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date: _____
 RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date: _____
 RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: H. Ald
INSTRUMENT S/N: 110900012353
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: New P.E
10 NTU - LOT # A1201R EXP. DATE: 11/22
20 NTU - LOT # A1207 EXP. DATE: 11/22

Calibration Date: 1-11-22

Calibration Solution	Instrument Reading	
0.0	0.3	NTU
10.0	10.1	NTU
20.0	20.5	NTU

Calibration Date: 1-12-22

Calibration Solution	Instrument Reading	
0.0	0.3	NTU
10.0	10.4	NTU
20.0	20.2	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: Anna Schmittler
INSTRUMENT S/N: B 15030C039579
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: Fresh DI Water
10 NTU - LOT # A1062 EXP. DATE: 6/22
20 NTU - LOT # A0288 EXP. DATE: 6/22

Calibration Date: 1/10/22

Calibration Solution	Instrument Reading	
0.0	0.6	NTU
10.0	9.98	NTU
20.0	20.1	NTU

Calibration Date: 1/11/22

Calibration Solution	Instrument Reading	
0.0	0.4	NTU
10.0	10.1	NTU
20.0	19.8	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: J. Branstetter
INSTRUMENT S/N: 120500017602
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # N/A EXP. DATE: P/F H₂O
10 NTU - LOT # A1201R EXP. DATE: 11/22
20 NTU - LOT # A1207 EXP. DATE: 11/22

Calibration Date: 11/11/22

Calibration Solution	Instrument Reading	
0.0	0.71	NTU
10.0	10.6	NTU
20.0	18.8	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	714302
Created	1/11/2022

Sensor	RDO
--------	------------

Serial Number	713958
Last Calibrated	1/11/2022

Calibration Details

Slope	1.05467
Offset	0.00 mg/L

Calibration point 100%

Concentration	10.21 mg/L
Temperature	11.66 °C
Barometric Pressure	1,004.7 mbar

Sensor	Conductivity
--------	---------------------

Serial Number	714302
Last Calibrated	1/11/2022

Calibration Details

Cell Constant	0.852
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	Level
--------	--------------

Serial Number	712532
Last Calibrated	Factory Defaults

Sensor	pH/ORP
Serial Number	21475
Last Calibrated	1/11/2022

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 113.6 mV
Temperature 5.88 °C

Calibration Point 2

pH of Buffer 7.06 pH
pH mV -59.4 mV
Temperature 8.42 °C

Calibration Point 3

pH of Buffer 10.12 pH
pH mV -206.4 mV
Temperature 7.65 °C

Slope and Offset 1

Slope -56.54 mV/pH
Offset -56.0 mV

Slope and Offset 2

Slope -48.05 mV/pH
Offset -56.5 mV

ORP

ORP Solution ZoBell's
Offset 32.4 mV
Temperature 10.83 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 714344
Created 1/11/2022

Sensor **RDO**

Serial Number 713940
Last Calibrated 12/16/2021

Calibration Details

Slope 1.088679
Offset 0.00 mg/L

Calibration point 100%

Concentration 9.29 mg/L
Temperature 14.39 °C
Barometric Pressure 1,002.9 mbar

Sensor **Conductivity**

Serial Number 714344
Last Calibrated 1/11/2022

Calibration Details

Cell Constant 0.931
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 712534
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21438
Last Calibrated	1/11/2022

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 122.1 mV
Temperature 14.49 °C

Calibration Point 2

pH of Buffer 7.06 pH
pH mV -48.4 mV
Temperature 14.42 °C

Calibration Point 3

pH of Buffer 10.08 pH
pH mV -213.0 mV
Temperature 13.32 °C

Slope and Offset 1

Slope -55.73 mV/pH
Offset -45.1 mV

Slope and Offset 2

Slope -54.49 mV/pH
Offset -45.2 mV

ORP

ORP Solution ZoBell's
Offset 47.8 mV
Temperature 12.61 °C

Calibration Report

Instrument Aqua TROLL 400
Serial Number 714344
Created 1/12/2022

Sensor **RDO**

Serial Number 713940
Last Calibrated 1/12/2022

Calibration Details

Slope 1.091101
Offset 0.00 mg/L

Calibration point 100%

Concentration 8.86 mg/L
Temperature 16.40 °C
Barometric Pressure 1,000.9 mbar

Sensor **Conductivity**

Serial Number 714344
Last Calibrated 1/12/2022

Calibration Details

Cell Constant 0.809
Reference Temperature 25.00 °C
TDS Conversion Factor (ppm) 0.65

Sensor **Level**

Serial Number 712534
Last Calibrated Factory Defaults

Sensor	pH/ORP
Serial Number	21438
Last Calibrated	1/12/2022

Calibration Details

Total Calibration Points	3
--------------------------	---

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	99.2 mV
Temperature	14.30 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-56.3 mV
Temperature	11.52 °C

Calibration Point 3

pH of Buffer	10.12 pH
pH mV	-219.8 mV
Temperature	11.24 °C

Slope and Offset 1

Slope	-50.83 mV/pH
Offset	-53.3 mV

Slope and Offset 2

Slope	-53.42 mV/pH
Offset	-53.1 mV

ORP

ORP Solution	ZoBell's
Offset	52.8 mV
Temperature	11.13 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	850762
Created	1/10/2022

Sensor	RDO
--------	------------

Serial Number	849194
Last Calibrated	1/10/2022

Calibration Details

Slope	1.072061
Offset	0.00 mg/L

Calibration point 100%

Concentration	9.20 mg/L
Temperature	14.91 °C
Barometric Pressure	989.67 mbar

Sensor	Conductivity
--------	---------------------

Serial Number	850762
Last Calibrated	1/10/2022

Calibration Details

Cell Constant	0.879
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	Level
--------	--------------

Serial Number	850400
Last Calibrated	Factory Defaults

Sensor	pH/ORP
Serial Number	21487
Last Calibrated	1/10/2022

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer 4.00 pH
pH mV 138.4 mV
Temperature 16.05 °C

Calibration Point 2

pH of Buffer 7.02 pH
pH mV -27.2 mV
Temperature 15.60 °C

Calibration Point 3

pH of Buffer 10.08 pH
pH mV -191.5 mV
Temperature 16.09 °C

Slope and Offset 1

Slope -54.84 mV/pH
Offset -26.1 mV

Slope and Offset 2

Slope -53.7 mV/pH
Offset -26.1 mV

ORP

ORP Solution ZoBell's
Offset 26.1 mV
Temperature 16.00 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	850762
Created	1/11/2022

Sensor	RDO
--------	------------

Serial Number	849194
Last Calibrated	1/11/2022

Calibration Details

Slope	1.020567
Offset	0.00 mg/L

Calibration point 100%

Concentration	9.60 mg/L
Temperature	15.82 °C
Barometric Pressure	1,002.1 mbar

Sensor	Conductivity
--------	---------------------

Serial Number	850762
Last Calibrated	1/11/2022

Calibration Details

Cell Constant	12.427
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	Level
--------	--------------

Serial Number	850400
Last Calibrated	Factory Defaults

Sensor	pH/ORP
Serial Number	21487
Last Calibrated	1/11/2022

Calibration Details

Total Calibration Points 3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	133.7 mV
Temperature	10.62 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-29.1 mV
Temperature	9.16 °C

Calibration Point 3

pH of Buffer	10.12 pH
pH mV	-193.1 mV
Temperature	8.67 °C

Slope and Offset 1

Slope	-53.18 mV/pH
Offset	-25.9 mV

Slope and Offset 2

Slope	-53.6 mV/pH
Offset	-25.8 mV

ORP

ORP Solution	ZoBell's
Offset	26.9 mV
Temperature	8.43 °C



Daily Instrument Calibration Log

SITE: Plant Waukeg A7
 TECHNICIAN: SBerryford
 WATER LEVEL: Split
 WATER LEVEL S/N: 267301
 INSTRUMENT S/N: 884189
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:

ID: <u>pH 4</u>	LOT #: <u>21070193</u>	EXP. DATE: <u>8/22</u>
ID: <u>947</u>	LOT #: <u>21010060</u>	EXP. DATE: <u>8/22</u>
ID: <u>p4 10</u>	LOT #: <u>21680189</u>	EXP. DATE: <u>6/22</u>
ID: <u>Cond</u>	LOT #: <u>1611992</u>	EXP. DATE: <u>8/22</u>
ID: <u>ORP</u>	LOT #: <u>21140141</u>	EXP. DATE: <u>8/22</u>
ID:	LOT #:	EXP. DATE:
ID:	LOT #:	EXP. DATE:

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 3/1/22

RDO: 100% sat. = 104 Midday pH check
 PH: 4.00 = 3.92 7.00 = 7.05 10.00 = 10.25 7.0 = 7.07
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1483
 ORP (mV) 228 = 244

Calibration Date: 3/3/22

RDO: 100% sat. = 94.4 Midday pH check
 PH: 4.00 = 4.01 7.00 = 7.06 10.00 = 10.10 7.0 = 7.02
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1450
 ORP (mV) 228 = 238

Calibration Date: 3/14/22

RDO: 100% sat. = 99.9 Midday pH check
 PH: 4.00 = 4.15 7.00 = 7.02 10.00 = 10.05 7.0 = 7.04
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1466
 ORP (mV) 228 = 241.8

Calibration Date:

RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =

Calibration Date:

RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: J Bradford

INSTRUMENT S/N: 16040C049767
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # DI 1230 EXP. DATE: NA
10 NTU - LOT # A1012 EXP. DATE: 4/22
20 NTU - LOT # A1013 EXP. DATE: 4/22

Calibration Date: 3/1/22

Calibration Solution	Instrument Reading	
0.0	0.63	NTU
10.0	9.42	NTU
20.0	21.4	NTU

Calibration Date: 3/3/22

Calibration Solution	Instrument Reading	
0.0	0.51	NTU
10.0	9.72	NTU
20.0	20.7	NTU

Calibration Date: 3/4/22

Calibration Solution	Instrument Reading	
0.0	0.30	NTU
10.0	9.74	NTU
20.0	21.4	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Plant Wansley Ash Pond
 TECHNICIAN: Toby Johnson
 WATER LEVEL: Salinst
 WATER LEVEL S/N: 322101

INSTRUMENT S/N: 844244 843593
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:
 ID: Conductivity LOT #: 166973 EXP. DATE: 7/22
 ID: ORP LOT #: 16K009 EXP. DATE: 7/22
 ID: PH4 LOT #: 166104 EXP. DATE: 7/23
 ID: PH7 LOT #: 16E081 EXP. DATE: 9/23
 ID: PH10 LOT #: 16F458 EXP. DATE: 6/23 Midday pH check
 ID: _____ LOT #: _____ EXP. DATE: _____ Must be less than .10
 ID: _____ LOT #: _____ EXP. DATE: _____ (6.90-7.10 range)
 ID: _____ LOT #: _____ EXP. DATE: _____ Recalibrate if not within range

Calibration Date: 2/28/22
 RDO: 100% sat. = 96.68 Midday pH check
 PH: 4.00 = 4.02 7.00 = 7.00 10.00 = 10.07 7.0 =
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = post recal check
 CONDUCTIVITY: 1413 mS/cm = 1051.0
 ORP (mV) 240 = 237.7

First cal @ 1530

Calibration Date: 3/1/22
 RDO: 100% sat. = 104.33 Midday pH check
 PH: 4.00 = 4.03 7.00 = 7.07 10.00 = 10.11 7.0 =
 PH Recal (if needed): 4.00 = 4.03 7.00 = _____ 10.00 = _____ 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1617
 ORP (mV) 240 = 241.1

7.01

Calibration Date: 3/3/22
 RDO: 100% sat. = 107.51 Midday pH check
 PH: 4.00 = 4.04 7.00 = 6.95 10.00 = 10.03 7.0 =
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1509.0
 ORP (mV) 240 = 243.3

7.02

Calibration Date: 3/4/2022
 RDO: 100% sat. = 94.10 Midday pH check
 PH: 4.00 = 4.10 7.00 = 7.08 10.00 = 10.14 7.0 =
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1340.6
 ORP (mV) 240 = 245

7.01

Calibration Date: _____
 RDO: 100% sat. = _____ Midday pH check
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 =
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____



Daily Instrument Calibration Log

SITE: Plant Wansley Ash Pond
 TECHNICIAN: Toby Johnson

INSTRUMENT S/N: 19010C073360
 INSTRUMENT TYPE: Hach 2100Q
 CAL. SOLUTION: 0 NTU - LOT # D.I EXP. DATE: New
10 NTU - LOT # A1013 EXP. DATE: 4/22
20 NTU - LOT # A1013 EXP. DATE: 4/22

Calibration Date: 2/28/2022

Calibration Solution	Instrument Reading	
0.0	0.08	NTU
10.0	9.60	NTU
20.0	19.4	NTU

Calibration Date: 3/1/2022

Calibration Solution	Instrument Reading	
0.0	0.10	NTU
10.0	10.2	NTU
20.0	20.3	NTU

Calibration Date: 3/3/2022

Calibration Solution	Instrument Reading	
0.0	0.14	NTU
10.0	10.1	NTU
20.0	21.4	NTU

Calibration Date: 3/4/2022

Calibration Solution	Instrument Reading	
0.0	0.12	NTU
10.0	10.2	NTU
20.0	19.2	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Wandoo AP
 TECHNICIAN: J. B. Stanford
 WATER LEVEL: Solmit
 WATER LEVEL S/N: 267304

INSTRUMENT S/N: 843593
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS:
 ID: pH 4 LOT #: 21470032 EXP. DATE: 4/23
 ID: pH 7 LOT #: 21380102 EXP. DATE: 4/23
 ID: pH 10 LOT #: 22080056 EXP. DATE: 4/23
 ID: Cond LOT #: 1618005 EXP. DATE: 1/1/22
 ID: ORP LOT #: 21140143 EXP. DATE: 4/23

Midday pH check
 Must be less than .10
 (6.90-7.10 range)
 Recalibrate if not within range

Calibration Date: 6/6/22

RDO: 100% sat. = 99.48 Midday pH check
 PH: 4.00 = 4.08 7.00 = 7.06 10.00 = 9.68 7.0 = 7.04
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1547
 ORP (mV) 228 = 219.7

Calibration Date: 6/7/22

RDO: 100% sat. = 101.98 Midday pH check
 PH: 4.00 = 4.04 7.00 = 7.05 10.00 = 10.13 7.0 = 7.06
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: 1413 = 1716
 ORP (mV) 228 = 230.8

Calibration Date:

RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =

Calibration Date:

RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =

Calibration Date:

RDO: 100% sat. = Midday pH check
 PH: 4.00 = 7.00 = 10.00 = 7.0 =
 PH Recal (if needed): 4.00 = 7.00 = 10.00 = 7.0 = post recal check
 CONDUCTIVITY: =
 ORP (mV) =



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: J. Brink

INSTRUMENT S/N: 12090C07719
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: 11/20
10 NTU - LOT # A2122 EXP. DATE: 8/23
20 NTU - LOT # A2122 EXP. DATE: 8/23

Calibration Date: 6/6/2022

Calibration Solution	Instrument Reading	
0.0	0.38	NTU
10.0	9.87	NTU
20.0	17.7	NTU

Calibration Date: 6/7/22

Calibration Solution	Instrument Reading	
0.0	6.37	NTU
10.0	10.2	NTU
20.0	21.1	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Plant Wansley AP
 TECHNICIAN: A Schmittlar
 WATER LEVEL: Solinst
 WATER LEVEL S/N: 377060

INSTRUMENT S/N: 850724
 INSTRUMENT TYPE: AquaTroll
 CAL. SOLUTIONS: ID: pH 4 LOT #: 16H1124 EXP. DATE: 8/23
 ID: pH 7 LOT #: 21380102 EXP. DATE: 4/23
 ID: pH 10 LOT #: 166429 EXP. DATE: 7/23
 ID: Cond LOT #: 16H998 EXP. DATE: 8/22
 ID: ORP LOT #: 21140143 EXP. DATE: 4/23 **Midday pH check**
 ID: _____ LOT #: _____ EXP. DATE: _____ **Must be less than .10**
 ID: _____ LOT #: _____ EXP. DATE: _____ **(6.90-7.10 range)**
 Recalibrate if not within range

Calibration Date: 6/6
 RDO: 100% sat. = 100.88 **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = 7.01
 PH Recal (if needed): 4.00 = 4.02 7.00 = 6.99 10.00 = 9.98 7.0 = _____ post recal check
 CONDUCTIVITY: 1413 = 1699
 ORP (mV) 228 = 215

Calibration Date: 6/7
 RDO: 100% sat. = 106.95 **Midday pH check**
 PH: 4.00 = 4.02 7.00 = 7.05 10.00 = 10.07 7.0 = 7.02
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: 1413 = 1384
 ORP (mV) 228 = 232

Calibration Date: _____
 RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date: _____
 RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____

Calibration Date: _____
 RDO: 100% sat. = _____ **Midday pH check**
 PH: 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____
 PH Recal (if needed): 4.00 = _____ 7.00 = _____ 10.00 = _____ 7.0 = _____ post recal check
 CONDUCTIVITY: _____ = _____
 ORP (mV) _____ = _____



Daily Instrument Calibration Log

SITE: Plant Wansley
TECHNICIAN: A Schmittker
INSTRUMENT S/N: 13110CO29655
INSTRUMENT TYPE: Hach 2100Q
CAL. SOLUTION: 0 NTU - LOT # NA EXP. DATE: Fresh DI water
10 NTU - LOT # A2122 EXP. DATE: 8/23
20 NTU - LOT # A2124 EXP. DATE: 8/23

Calibration Date: 6/4

Calibration Solution	Instrument Reading	
0.0	0.92	NTU
10.0	10.3	NTU
20.0	19.0	NTU

Calibration Date: 6/7

Calibration Solution	Instrument Reading	
0.0	0.40	NTU
10.0	10.0	NTU
20.0	20.9	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

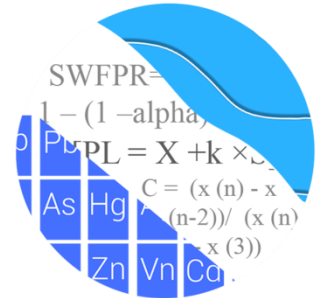
APPENDIX C

Statistical Analysis Report

GROUNDWATER STATS CONSULTING

August 31, 2022

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308



Re: Plant Wansley Ash Pond
March 2022 Statistical Analysis

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the March 2022 Groundwater Detection and Assessment Monitoring Statistical summary for Georgia Power Company's Plant Wansley Ash Pond. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009). The site is in Assessment Monitoring.

Sampling began for Appendix III and IV parameters in 2016 and at least 8 background samples have been collected at each of the groundwater monitoring wells except for those discussed below. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** WGWA-1, WGWA-2, WGWA-3, WGWA-4, WGWA-5, WGWA-6, WGWA-7, and WGWA-18
- **Downgradient wells:** WGWC-8, WGWC-9, WGWC-10, WGWC-11, WGWC-12, WGWC-13, WGWC-14A, WGWC-15, WGWC-16, WGWC-17, WGWC-19, WGWC-20, WGWC-21, WGWC-22, WGWC-23, WGWC-24, and WGWC-25

Note that wells WGWC-20, WGWC-21, WGWC-22, WGWC-23, WGWC-24, and WGWC-25 were first sampled in March 2021. These wells have been sampled for Appendix III parameters and lithium a maximum of 6 times and for other Appendix IV parameters a

maximum of 4 times. These wells were sampled in January 2022 and June 2022 in addition to the March 2022 1st semi-annual event. Prediction limits will be used to evaluate Appendix III constituents when a minimum of 8 samples is available and confidence intervals will be constructed for Appendix IV parameters when a minimum of 4 samples is available.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician of Groundwater Stats Consulting. The analysis is prepared according to the recommended statistical methodology provided in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance.

The Coal Combustion Residuals (CCR) program consists of the constituents listed below. The terms “parameters” and “constituents” are used interchangeably.

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, box plots are included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient well/constituent pairs with 100% non-detects follows this letter. Data from these wells are plotted on the time series and box plots, but no formal statistics were required.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data. For calculating prediction limits, the substitution is performed for individual wells and may differ across wells. This generally gives the most conservative limit in each case. In the time series plots, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group.

During the background screening conducted by MacStat Consulting in 2017, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided to demonstrate 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.

Statistical Methods – Appendix III Parameters:

Based on the earlier evaluation described above, Appendix III parameters are evaluated using interwell prediction limits combined with a 1-of-2 resample plan for all constituents: boron, calcium, chloride, fluoride, pH, sulfate, and TDS.

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits. Non-detects are handled as follows:

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the most recent reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.

- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Note that values shown on data pages reflect raw data and any non-detects that have been substituted with one-half of the reporting limit will be shown as "<" the original reporting limit on the data pages.

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 analysis, in some cases, the earlier portion of data record may require deselecting prior to construction of limits to provide sensitive limits that will rapidly detect 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.

Statistical Evaluation of Appendix III Parameters – March 2022

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. No new values were flagged and a summary of flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through March 2022 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The March 2022 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present. It was noted that the reporting limit for boron, as provided by the laboratory, has fluctuated over the years from 0.05 mg/L to 0.1 mg/L. The most recent reporting limit in upgradient well data of 0.1 mg/L is substituted for all nondetects in the construction of interwell prediction limits as a result of substitution method discussed earlier.

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 resamples confirm the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the background prediction limits and exceedances follows this letter. Exceedances were identified for the following well/constituent pairs:

- Boron: WGWC-8, WGWC-9, and WGWC-16
- Calcium: WGWC-8
- Chloride: WGWC-8 and WGWC-16
- Fluoride: WGWC-9, WGWC-15, and WGWC-19
- Sulfate: WGWC-8, WGWC-9, and WGWC-16
- TDS: WGWC-8

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site which is an indication of natural variability in groundwater unrelated to practices at the site. A summary of the Appendix III trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends:

- Boron: WGWC-8 and WGWC-9
- Calcium: WGWC-8
- Chloride: WGWA-1 (upgradient) and WGWC-8
- Sulfate: WGWA-4 (upgradient), WGWC-8, and WGWC-9
- TDS: WGWC-8

Decreasing trends:

- Boron: WGWC-16
- Chloride: WGWA-5 (upgradient) and WGWC-16
- Fluoride: WGWC-9

Statistical Methods – Appendix IV Parameters

Appendix IV parameters are evaluated by statistically comparing the mean or median of each downgradient well/constituent pair against corresponding Groundwater Protection Standards (GWPS). The GWPS may be either regulatory (Maximum Contaminant Limits or CCR rule-specified limits) or site-specific limits that are based on upgradient background groundwater quality. Site-specific background limits are determined using upper tolerance limits, and the comparison of downgradient means or medians to GWPS is performed using confidence intervals. The methods are described below.

Statistical Evaluation of Appendix IV Parameters – March/June 2022

For Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Downgradient well/constituent pairs that have 100% non-detects do not require analysis. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis prior to constructing statistical limits. No new values were flagged during this analysis and a complete list of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through March 2022 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed using data through March 2022 (and through June 2022 for downgradient wells WGWC-20 – WGWC-25) for each of the Appendix IV constituents in each downgradient well with a minimum of 4 samples (Figure H). The Sanitas software was used to calculate the tolerance limits and the confidence intervals. The confidence intervals were compared to the GWPS established using the rules mentioned above. Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries and graphical results of the confidence intervals analyses follow this letter. Exceedances were noted for the following well/constituent pairs:

- Beryllium: WGWC-20
- Lithium: WGWC-19 and WGWC-20

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Wansley 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 6/29/2022 4:39 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Antimony (mg/L)

WGWC-10, WGWC-11, WGWC-13, WGWC-14A, WGWC-15, WGWC-16, WGWC-17, WGWC-19, WGWC-24, WGWC-25, WGWC-8

Arsenic (mg/L)

WGWC-19, WGWC-23, WGWC-25

Barium (mg/L)

WGWC-20

Beryllium (mg/L)

WGWC-10, WGWC-11, WGWC-12, WGWC-13, WGWC-15, WGWC-17, WGWC-19, WGWC-21

Cadmium (mg/L)

WGWC-11, WGWC-12, WGWC-13, WGWC-14A, WGWC-15, WGWC-17, WGWC-19, WGWC-21, WGWC-23, WGWC-25, WGWC-8, WGWC-9

Chromium (mg/L)

WGWC-12, WGWC-16, WGWC-17, WGWC-19, WGWC-20, WGWC-21, WGWC-22, WGWC-23, WGWC-24, WGWC-25, WGWC-8

Lead (mg/L)

WGWC-20, WGWC-21, WGWC-23, WGWC-25

Molybdenum (mg/L)

WGWC-16, WGWC-23, WGWC-24, WGWC-25, WGWC-8

Selenium (mg/L)

WGWC-13, WGWC-17, WGWC-21, WGWC-25

Thallium (mg/L)

WGWC-12, WGWC-13, WGWC-15, WGWC-17, WGWC-20, WGWC-21, WGWC-23, WGWC-25, WGWC-8, WGWC-9

Interwell Prediction Limits - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 6/28/2022, 1:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	WGWC-16	0.1	n/a	3/3/2022	0.79	Yes	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-8	0.1	n/a	3/3/2022	2.7	Yes	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-9	0.1	n/a	3/3/2022	0.62	Yes	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	WGWC-8	58	n/a	3/3/2022	88	Yes	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-16	6.05	n/a	3/3/2022	42	Yes	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-8	6.05	n/a	3/3/2022	130	Yes	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-15	0.284	n/a	3/3/2022	0.88	Yes	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-19	0.284	n/a	3/3/2022	0.4	Yes	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-9	0.284	n/a	3/3/2022	1	Yes	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	3/3/2022	57	Yes	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	3/3/2022	250	Yes	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	3/3/2022	58	Yes	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	3/3/2022	530	Yes	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 6/28/2022, 1:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	WGWC-10	0.1	n/a	3/3/2022	0.08ND	No	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-11	0.1	n/a	3/3/2022	0.08ND	No	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-12	0.1	n/a	3/4/2022	0.08ND	No	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-13	0.1	n/a	3/3/2022	0.08ND	No	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-14A	0.1	n/a	3/3/2022	0.08ND	No	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-15	0.1	n/a	3/3/2022	0.08ND	No	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-16	0.1	n/a	3/3/2022	0.79	Yes	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-17	0.1	n/a	3/4/2022	0.08ND	No	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-19	0.1	n/a	3/3/2022	0.08ND	No	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-8	0.1	n/a	3/3/2022	2.7	Yes	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-9	0.1	n/a	3/3/2022	0.62	Yes	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	WGWC-10	58	n/a	3/3/2022	7.1	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-11	58	n/a	3/3/2022	1.3	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-12	58	n/a	3/4/2022	12	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-13	58	n/a	3/3/2022	3.4	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-14A	58	n/a	3/3/2022	0.65	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-15	58	n/a	3/3/2022	28	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-16	58	n/a	3/3/2022	24	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-17	58	n/a	3/4/2022	5.3	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-19	58	n/a	3/3/2022	12	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-8	58	n/a	3/3/2022	88	Yes	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-9	58	n/a	3/3/2022	8.6	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-10	6.05	n/a	3/3/2022	1.6	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-11	6.05	n/a	3/3/2022	3.6	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-12	6.05	n/a	3/4/2022	3.2	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-13	6.05	n/a	3/3/2022	1	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-14A	6.05	n/a	3/3/2022	2.4	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-15	6.05	n/a	3/3/2022	1.4	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-16	6.05	n/a	3/3/2022	42	Yes	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-17	6.05	n/a	3/4/2022	1.3	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-19	6.05	n/a	3/3/2022	3.2	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-8	6.05	n/a	3/3/2022	130	Yes	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-9	6.05	n/a	3/3/2022	3.5	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-10	0.284	n/a	3/3/2022	0.067J	No	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-11	0.284	n/a	3/3/2022	0.055J	No	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-12	0.284	n/a	3/4/2022	0.068J	No	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-13	0.284	n/a	3/3/2022	0.21	No	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-14A	0.284	n/a	3/3/2022	0.057J	No	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-15	0.284	n/a	3/3/2022	0.88	Yes	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-16	0.284	n/a	3/3/2022	0.067J	No	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-17	0.284	n/a	3/4/2022	0.06J	No	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-19	0.284	n/a	3/3/2022	0.4	Yes	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-8	0.284	n/a	3/3/2022	0.19	No	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-9	0.284	n/a	3/3/2022	1	Yes	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-10	7.96	4.96	3/3/2022	6.36	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-11	7.96	4.96	3/3/2022	5.59	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-12	7.96	4.96	3/4/2022	6.79	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-13	7.96	4.96	3/3/2022	6.31	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-14A	7.96	4.96	3/3/2022	5.4	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-15	7.96	4.96	3/3/2022	7.61	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-16	7.96	4.96	3/3/2022	5.22	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-17	7.96	4.96	3/4/2022	6.21	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-19	7.96	4.96	3/3/2022	6.69	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-8	7.96	4.96	3/3/2022	5.21	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-9	7.96	4.96	3/3/2022	5.86	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 6/28/2022, 1:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate as SO4 (mg/L)	WGWC-10	21	n/a	3/3/2022	2	No	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-11	21	n/a	3/3/2022	2.3	No	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-12	21	n/a	3/4/2022	14	No	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-13	21	n/a	3/3/2022	3	No	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-14A	21	n/a	3/3/2022	1.3	No	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-15	21	n/a	3/3/2022	18	No	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	3/3/2022	57	Yes	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-17	21	n/a	3/4/2022	3.6	No	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-19	21	n/a	3/3/2022	4.8	No	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	3/3/2022	250	Yes	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	3/3/2022	58	Yes	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-10	190	n/a	3/3/2022	45	No	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-11	190	n/a	3/3/2022	21	No	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-12	190	n/a	3/4/2022	89	No	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-13	190	n/a	3/3/2022	71	No	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-14A	190	n/a	3/3/2022	17	No	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-15	190	n/a	3/3/2022	140	No	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-16	190	n/a	3/3/2022	170	No	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-17	190	n/a	3/4/2022	55	No	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-19	190	n/a	3/3/2022	98	No	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	3/3/2022	530	Yes	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-9	190	n/a	3/3/2022	140	No	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 6/28/2022, 1:21 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	WGWC-16	-0.9162	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-8	0.2018	93	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-9	0.05163	73	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-8	11.17	131	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-1 (bg)	0.1291	83	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-5 (bg)	-0.08806	-69	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-16	-41.32	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-8	19.35	134	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1246	-143	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.5474	102	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	14.03	112	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.76	80	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	50	123	68	Yes	18	0	n/a	n/a	0.01	NP

Trend Tests - Prediction Limit Exceedances - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 6/28/2022, 1:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	WGWA-1 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-18 (bg)	0	32	68	No	18	88.89	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-2 (bg)	0	-23	-68	No	18	88.89	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-3 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-4 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-5 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-6 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-7 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-16	-0.9162	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-8	0.2018	93	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-9	0.05163	73	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-1 (bg)	0.03125	54	68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-18 (bg)	-1.347	-55	-68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-2 (bg)	-0.2578	-32	-68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-3 (bg)	0	-12	-68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-4 (bg)	-0.2414	-46	-68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-5 (bg)	-0.04108	-11	-63	No	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-6 (bg)	0	-3	-68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-7 (bg)	-0.04069	-19	-68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-8	11.17	131	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-1 (bg)	0.1291	83	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-18 (bg)	-0.05644	-31	-68	No	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-2 (bg)	0.05935	57	68	No	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-3 (bg)	0	10	68	No	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-4 (bg)	0	-42	-68	No	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-5 (bg)	-0.08806	-69	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-6 (bg)	0	9	68	No	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-7 (bg)	0	10	68	No	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-16	-41.32	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-8	19.35	134	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-1 (bg)	0	-31	-92	No	22	72.73	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-18 (bg)	-0.008295	-79	-92	No	22	18.18	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-2 (bg)	-0.01629	-84	-92	No	22	40.91	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-3 (bg)	0	-34	-92	No	22	68.18	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-4 (bg)	-0.005859	-64	-92	No	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-5 (bg)	0	19	87	No	21	85.71	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-6 (bg)	-0.005716	-78	-92	No	22	9.091	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-7 (bg)	0	-37	-92	No	22	72.73	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-15	-0.02607	-81	-92	No	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-19	-0.01357	-61	-92	No	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1246	-143	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-1 (bg)	0	-17	-68	No	18	88.89	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-18 (bg)	-0.6083	-45	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-2 (bg)	0	3	68	No	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-3 (bg)	0.01696	19	68	No	18	5.556	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.5474	102	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-5 (bg)	0.02377	18	63	No	17	23.53	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-6 (bg)	0.04097	19	68	No	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-7 (bg)	0	-13	-68	No	18	72.22	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-16	-81.01	-62	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	14.03	112	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.76	80	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-1 (bg)	2.5	44	68	No	18	22.22	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-18 (bg)	-1.401	-10	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-2 (bg)	1.758	16	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-3 (bg)	1.759	20	68	No	18	5.556	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-4 (bg)	0.8081	23	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-5 (bg)	0.4319	4	63	No	17	11.76	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-6 (bg)	3.908	46	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-7 (bg)	0.8063	9	68	No	18	16.67	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	50	123	68	Yes	18	0	n/a	n/a	0.01	NP

Upper Tolerance Limit Summary Table

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 6/28/2022, 1:24 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	0.0022	n/a	n/a	n/a	n/a	127	n/a	n/a	98.43	n/a	n/a	0.001482	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0014	n/a	n/a	n/a	n/a	167	n/a	n/a	80.24	n/a	n/a	0.0001905	NP Inter(NDs)
Barium (mg/L)	n/a	0.062	n/a	n/a	n/a	n/a	167	n/a	n/a	0	n/a	n/a	0.0001905	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	167	n/a	n/a	93.41	n/a	n/a	0.0001905	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	151	n/a	n/a	100	n/a	n/a	0.0004328	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0049	n/a	n/a	n/a	n/a	167	n/a	n/a	95.21	n/a	n/a	0.0001905	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.013	n/a	n/a	n/a	n/a	166	n/a	n/a	46.39	n/a	n/a	0.0002005	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	10.4	n/a	n/a	n/a	n/a	164	n/a	n/a	0	n/a	n/a	0.0002222	NP Inter(normality)
Fluoride, total (mg/L)	n/a	0.284	n/a	n/a	n/a	n/a	175	n/a	n/a	45.71	n/a	n/a	NaN	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	151	n/a	n/a	88.08	n/a	n/a	0.0004328	NP Inter(NDs)
Lithium (mg/L)	n/a	0.009	n/a	n/a	n/a	n/a	157	n/a	n/a	50.32	n/a	n/a	0.0003181	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	135	n/a	n/a	89.63	n/a	n/a	0.0009833	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	n/a	166	n/a	n/a	90.36	n/a	n/a	0.0002005	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	167	n/a	n/a	94.61	n/a	n/a	0.0001905	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	167	n/a	n/a	92.22	n/a	n/a	0.0001905	NP Inter(NDs)

WANSLEY AP GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background	GWPS
Antimony, Total (mg/L)	0.006		0.0022	0.006
Arsenic, Total (mg/L)	0.01		0.0014	0.01
Barium, Total (mg/L)	2		0.062	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		0.0049	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.013	0.013
Combined Radium, Total (pCi/L)	5		10.4	10.4
Fluoride, Total (mg/L)	4		0.284	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.009	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	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

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

CCR = Coal Combustion Residual

Highlighted cells indicate background is higher than established limit.

Confidence Interval - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 7/12/2022, 9:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	WGWC-20	0.01359	0.005913	0.004	Yes	4	0.00975	0.00169	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-19	0.05589	0.04811	0.04	Yes	21	0.052	0.007043	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-20	0.15	0.11	0.04	Yes	6	0.1233	0.01751	0	None	No	0.0155	NP (normality)

Confidence Interval - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 7/12/2022, 9:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	WGWC-12	0.0023	0.002	0.006	No	16	0.002019	0.000075	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-20	0.001379	0.0003805	0.006	No	4	0.00144	0.0006711	50	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	WGWC-21	0.0009061	0.0003839	0.006	No	4	0.001323	0.0007879	50	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	WGWC-22	0.0009941	0.0004326	0.006	No	4	0.001035	0.0006551	25	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	WGWC-23	0.002029	0.0008374	0.006	No	4	0.001575	0.0003862	25	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	WGWC-9	0.008	0.0011	0.006	No	16	0.00212	0.001666	75	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.00089	0.01	No	21	0.0008776	0.0002481	76.19	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	21	0.0009295	0.0001772	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	21	0.0009224	0.0001964	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00039	0.01	No	21	0.0007924	0.0003183	47.62	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0014	0.00095	0.01	No	21	0.001231	0.0005724	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-15	0.002115	0.001251	0.01	No	21	0.001683	0.0007834	0	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.0014	0.001	0.01	No	21	0.00115	0.0003245	52.38	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-17	0.001	0.00067	0.01	No	21	0.0008476	0.0002063	52.38	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-20	0.0009805	-0.00001051	0.01	No	4	0.000485	0.0002183	0	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-21	0.001014	0.0001313	0.01	No	4	0.0005725	0.0001943	0	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-22	0.000568	0.000182	0.01	No	4	0.0006875	0.0003675	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-24	0.004944	-0.0007236	0.01	No	4	0.00211	0.001248	0	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-8	0.0009225	0.0005404	0.01	No	21	0.0009833	0.0002867	47.62	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	21	0.0009976	0.0002024	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.041	0.035	2	No	21	0.03829	0.006358	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-11	0.04048	0.03237	2	No	21	0.03667	0.0078	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-12	0.02	0.015	2	No	21	0.01707	0.004064	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-13	0.05561	0.04592	2	No	21	0.05076	0.008786	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04613	0.03092	2	No	21	0.03852	0.01379	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-15	0.0247	0.0205	2	No	21	0.0226	0.003811	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.05732	0.03987	2	No	21	0.0486	0.01582	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-17	0.019	0.011	2	No	21	0.01476	0.004027	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-19	0.005	0.0013	2	No	21	0.003013	0.001953	38.1	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-21	0.009418	0.006032	2	No	4	0.007725	0.0007455	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-22	0.04906	0.01794	2	No	4	0.0335	0.006856	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-23	0.01062	0.005776	2	No	4	0.0082	0.001068	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-24	0.04727	0.01823	2	No	4	0.03275	0.006397	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-25	0.4427	0.3123	2	No	4	0.3775	0.02872	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-8	0.005	0.0011	2	No	21	0.003156	0.001788	42.86	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.005	0.00088	2	No	21	0.002725	0.001895	38.1	None	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00026	0.004	No	21	0.001856	0.001043	71.43	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	21	0.002391	0.0004975	95.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-20	0.01359	0.005913	0.004	Yes	4	0.00975	0.00169	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-22	0.0007078	0.0004472	0.004	No	4	0.0005775	0.00005737	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-23	0.001352	0.0007282	0.004	No	4	0.00104	0.0001374	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-24	0.01955	0.002552	0.004	No	4	0.01105	0.003743	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-25	0.0025	0.0002	0.004	No	4	0.00082	0.001121	25	None	No	0.0625	NP (normality)
Beryllium (mg/L)	WGWC-8	0.002161	0.001606	0.004	No	21	0.001883	0.000503	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	21	0.00129	0.001074	42.86	None	No	0.01	NP (normality)
Chromium (mg/L)	WGWC-10	0.002328	0.001719	0.1	No	21	0.002024	0.0005522	14.29	None	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0017	0.1	No	21	0.00191	0.0002625	80.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0019	0.1	No	21	0.001971	0.00007838	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	21	0.001986	0.00006547	95.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	21	0.001976	0.0001091	95.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	21	0.002024	0.0001091	95.24	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001508	0.0007381	0.013	No	21	0.001195	0.0008045	4.762	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00052	0.013	No	21	0.001492	0.0009494	33.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001094	0.0004832	0.013	No	21	0.0008538	0.0006437	4.762	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.0008	0.013	No	21	0.002009	0.0009069	76.19	None	No	0.01	NP (NDs)

Confidence Interval - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 7/12/2022, 9:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	WGWC-14A	0.00999	0.0052	0.013	No	21	0.007595	0.004341	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-15	0.0025	0.00015	0.013	No	21	0.002388	0.0005128	95.24	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-16	0.008605	0.001904	0.013	No	21	0.00654	0.006203	14.29	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-17	0.001577	0.0007172	0.013	No	21	0.001147	0.0007793	4.762	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No	21	0.001255	0.00111	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-20	0.0025	0.00037	0.013	No	4	0.001457	0.001204	50	None	No	0.0625	NP (normality)
Cobalt (mg/L)	WGWC-21	0.001378	0.0001093	0.013	No	4	0.00054	0.0003103	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	WGWC-22	0.0025	0.00025	0.013	No	4	0.0008675	0.00109	25	None	No	0.0625	NP (normality)
Cobalt (mg/L)	WGWC-23	0.0025	0.00016	0.013	No	4	0.001332	0.001348	50	None	No	0.0625	NP (normality)
Cobalt (mg/L)	WGWC-24	0.178	0.006006	0.013	No	4	0.092	0.03788	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-25	0.005563	0.003487	0.013	No	4	0.004525	0.0004573	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-8	0.0025	0.00065	0.013	No	21	0.001748	0.001047	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	21	0.002416	0.0003862	95.24	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4486	0.1873	10.4	No	21	0.3179	0.2368	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.62	0.195	10.4	No	21	0.4075	0.3852	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.5862	0.1932	10.4	No	21	0.3897	0.3562	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.7778	0.4775	10.4	No	21	0.6276	0.2722	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.8419	0.5469	10.4	No	21	0.7113	0.2987	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6311	0.31	10.4	No	21	0.5006	0.3384	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	1.816	0.8141	10.4	No	21	1.315	0.9083	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5376	0.1416	10.4	No	21	0.3396	0.3589	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.5722	0.2102	10.4	No	21	0.3912	0.3281	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-20	1.963	0.18	10.4	No	4	1.071	0.3926	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-21	3.219	-0.2142	10.4	No	4	1.502	0.756	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-22	9.957	1.388	10.4	No	4	5.673	1.887	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-23	1.92	-0.5164	10.4	No	4	0.702	0.5367	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-24	2.065	0.3783	10.4	No	4	1.029	0.4049	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-25	1.382	0.1402	10.4	No	4	0.761	0.2734	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-8	2.132	1.38	10.4	No	21	1.756	0.6816	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.4373	0.1769	10.4	No	21	0.3071	0.236	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-10	0.1723	0.1254	4	No	22	0.1489	0.04364	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-11	0.055	0.047	4	No	22	0.05355	0.02893	54.55	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	WGWC-12	0.09929	0.0744	4	No	22	0.08423	0.02796	18.18	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-13	0.2871	0.2069	4	No	22	0.247	0.07463	4.545	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-14A	0.057	0.048	4	No	22	0.04782	0.008694	63.64	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	WGWC-15	0.8673	0.7754	4	No	22	0.8213	0.08562	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-16	0.14	0.061	4	No	22	0.1483	0.1803	9.091	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-17	0.1316	0.08235	4	No	22	0.107	0.04584	4.545	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-19	0.377	0.3275	4	No	22	0.3523	0.04608	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-20	2.362	1.572	4	No	6	1.967	0.2875	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-21	2.019	1.614	4	No	6	1.817	0.1472	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-22	1.325	0.2869	4	No	6	0.7083	0.4325	0	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	WGWC-23	0.1025	0.02548	4	No	6	0.064	0.02804	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-24	1.298	0.5149	4	No	6	0.9067	0.2852	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-25	0.04596	0.02233	4	No	6	0.04017	0.0104	33.33	Kaplan-Meier	x^2	0.01	Param.
Fluoride, total (mg/L)	WGWC-8	0.3357	0.1993	4	No	22	0.2675	0.127	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-9	1.483	1.171	4	No	22	1.327	0.2909	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00021	0.015	No	19	0.00064	0.000394	52.63	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.015	No	19	0.0008716	0.0002622	78.95	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-12	0.001	0.00033	0.015	No	19	0.0009647	0.0001537	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00045	0.015	No	19	0.0006989	0.0002898	42.11	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00031	0.015	No	19	0.0007774	0.0003485	68.42	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-15	0.001	0.0003	0.015	No	19	0.0009632	0.0001606	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.015	No	19	0.0009089	0.0002727	89.47	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.015	No	19	0.0009226	0.0002328	89.47	None	No	0.01	NP (NDs)

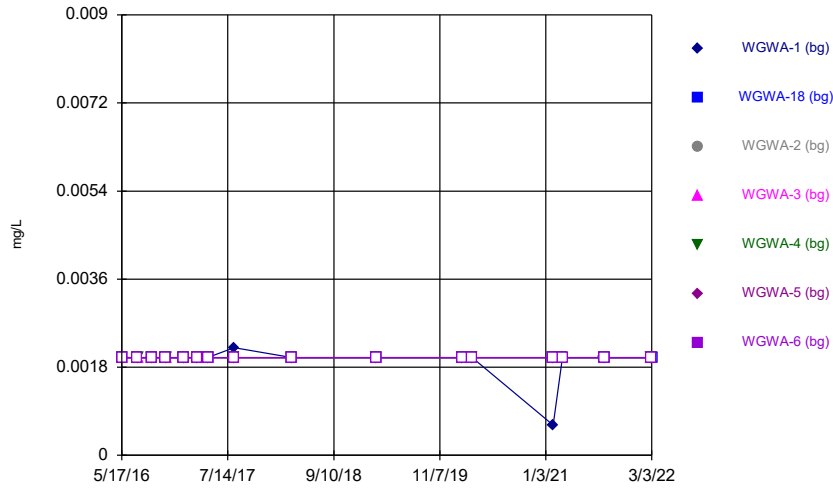
Confidence Interval - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 7/12/2022, 9:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	WGWC-19	0.001	0.0003	0.015	No	19	0.0009632	0.0001606	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-22	0.0004239	0.0001454	0.015	No	4	0.0004525	0.0003705	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	WGWC-24	0.001494	0.000131	0.015	No	4	0.0008125	0.0003002	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-8	0.001	0.00016	0.015	No	19	0.00075	0.0003866	68.42	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.015	No	19	0.0009547	0.0001973	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01388	0.006939	0.04	No	21	0.01104	0.007155	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.04	No	21	0.00449	0.001284	85.71	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.0077	0.006118	0.04	No	21	0.006752	0.001704	4.762	None	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0037	0.04	No	21	0.004324	0.001185	71.43	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-14A	0.005	0.0025	0.04	No	21	0.004048	0.001364	61.9	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-15	0.007194	0.005615	0.04	No	21	0.006405	0.001431	9.524	None	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.0101	0.006438	0.04	No	21	0.008271	0.003324	4.762	None	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005567	0.004678	0.04	No	21	0.005143	0.0008286	4.762	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-19	0.05589	0.04811	0.04	Yes	21	0.052	0.007043	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-20	0.15	0.11	0.04	Yes	6	0.1233	0.01751	0	None	No	0.0155	NP (normality)
Lithium (mg/L)	WGWC-21	0.05047	0.0222	0.04	No	6	0.03633	0.01029	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-22	0.011	0.0081	0.04	No	6	0.01023	0.001247	0	None	No	0.0155	NP (normality)
Lithium (mg/L)	WGWC-23	0.005	0.0015	0.04	No	6	0.003917	0.001686	66.67	None	No	0.0155	NP (NDs)
Lithium (mg/L)	WGWC-24	0.009566	0.005034	0.04	No	6	0.0073	0.001649	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-25	0.004743	0.003657	0.04	No	6	0.0042	0.000395	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-8	0.017	0.013	0.04	No	21	0.01689	0.009837	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03775	0.03239	0.04	No	21	0.03507	0.004864	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.1	No	21	0.01366	0.004235	90.48	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.1	No	21	0.0137	0.004092	90.48	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.00095	0.1	No	21	0.01112	0.006342	71.43	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-13	0.0028	0.0013	0.1	No	21	0.003903	0.004722	14.29	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.1	No	21	0.01433	0.003055	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.006357	0.003208	0.1	No	21	0.005067	0.003399	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.005121	0.002568	0.1	No	21	0.004077	0.002505	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.1	No	21	0.005857	0.006626	33.33	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-20	0.015	0.00062	0.1	No	4	0.007852	0.008254	50	None	No	0.0625	NP (normality)
Molybdenum (mg/L)	WGWC-21	0.04858	0.02592	0.1	No	4	0.03725	0.004992	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-22	0.015	0.00084	0.1	No	4	0.01146	0.00708	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	WGWC-9	0.005876	0.003492	0.1	No	21	0.005144	0.003374	0	None	ln(x)	0.01	Param.
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	21	0.004777	0.001023	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	21	0.004785	0.0009842	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	21	0.004862	0.0006328	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	21	0.004776	0.001026	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	21	0.004786	0.000982	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.01044	0.005226	0.05	No	21	0.007831	0.004721	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	21	0.004779	0.001013	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-20	0.005	0.0014	0.05	No	4	0.00235	0.001769	25	None	No	0.0625	NP (normality)
Selenium (mg/L)	WGWC-22	0.008596	0.003054	0.05	No	4	0.005825	0.00122	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-23	0.002621	0.001479	0.05	No	4	0.00205	0.0002517	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-24	0.005	0.00077	0.05	No	4	0.003942	0.002115	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	WGWC-8	0.003875	0.00318	0.05	No	21	0.003528	0.0006299	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-9	0.00279	0.002217	0.05	No	21	0.002504	0.0005195	0	None	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	21	0.0009564	0.0001997	95.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-11	0.001	0.00016	0.002	No	21	0.00096	0.0001833	95.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00014	0.002	No	21	0.0005605	0.0004303	47.62	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-16	0.001	0.00017	0.002	No	21	0.0005267	0.0004215	42.86	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-19	0.001	0.00018	0.002	No	21	0.000961	0.0001789	95.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-22	0.001	0.00047	0.002	No	4	0.0008675	0.000265	75	None	No	0.0625	NP (NDs)
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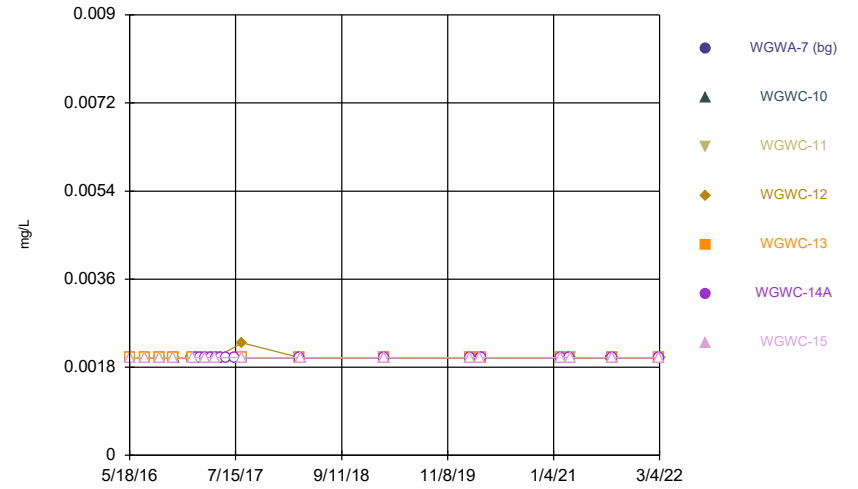
FIGURE A.

Time Series



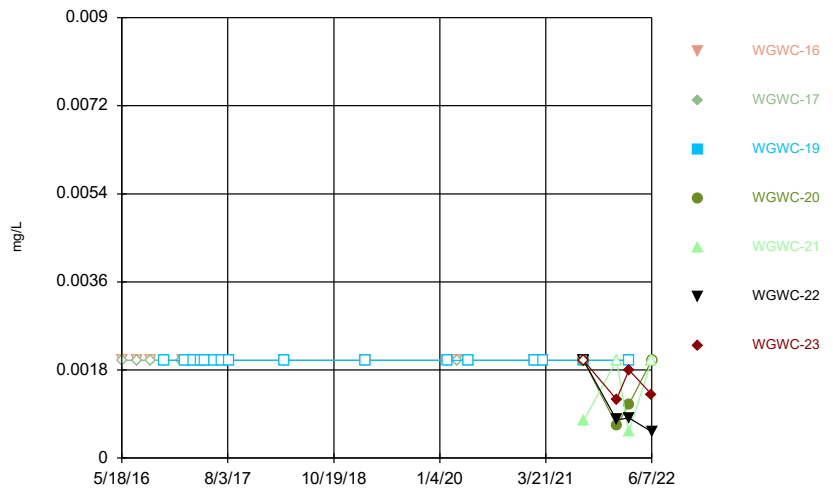
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



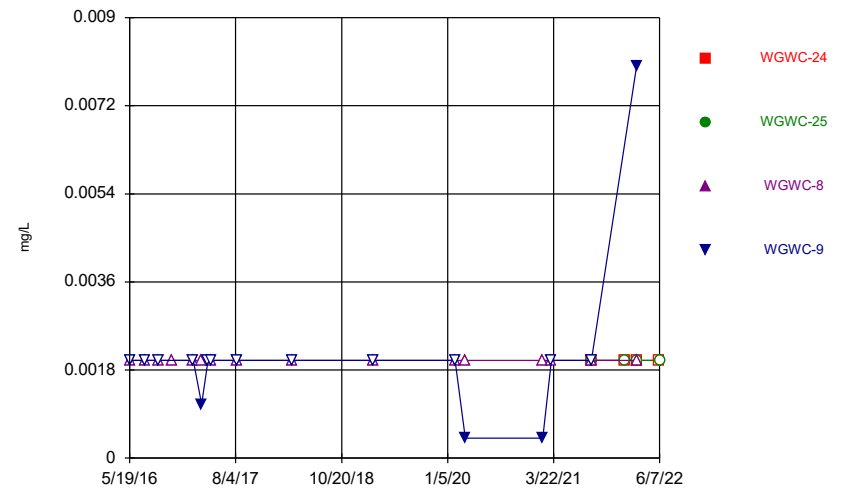
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Time Series



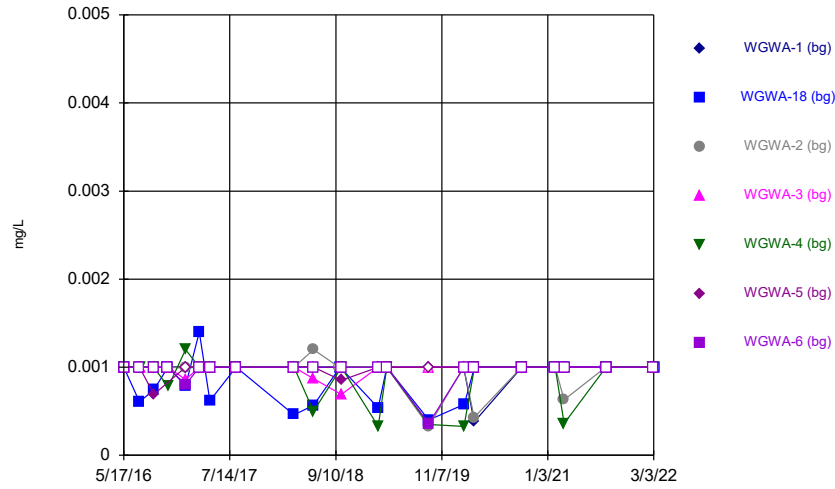
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Time Series



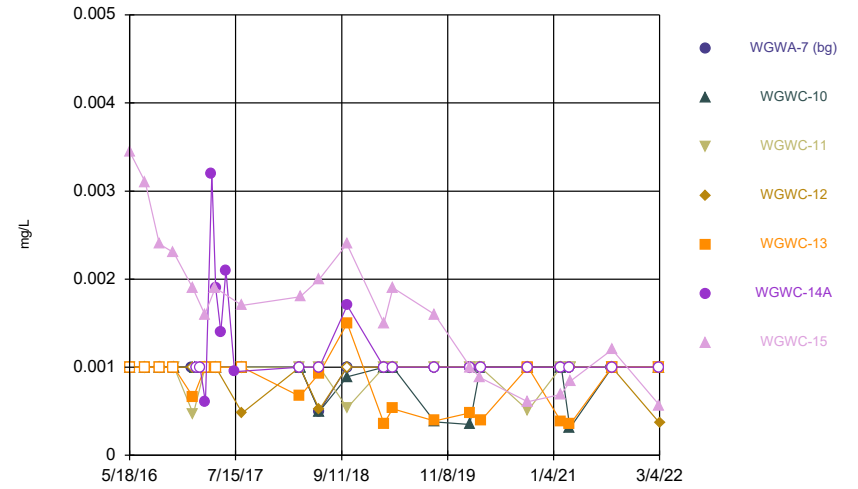
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Time Series



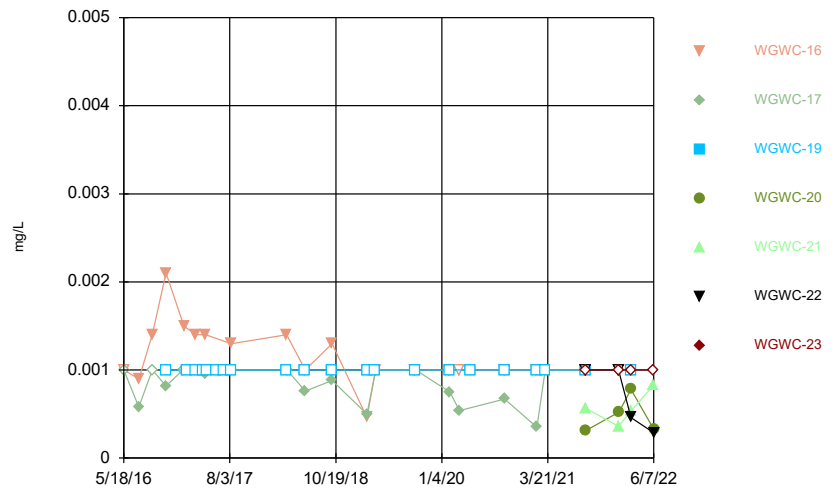
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Time Series



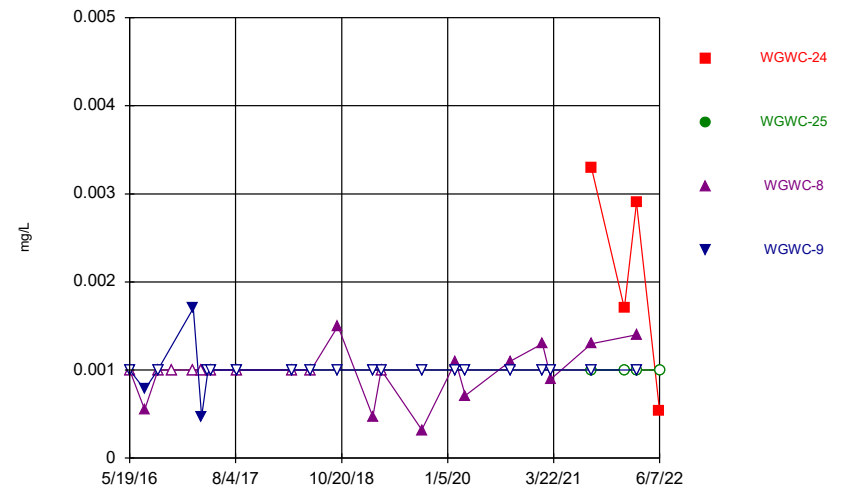
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



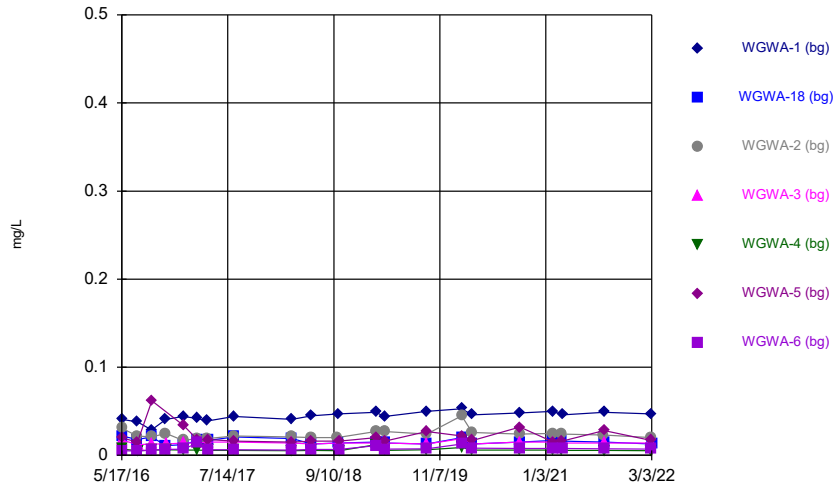
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Time Series



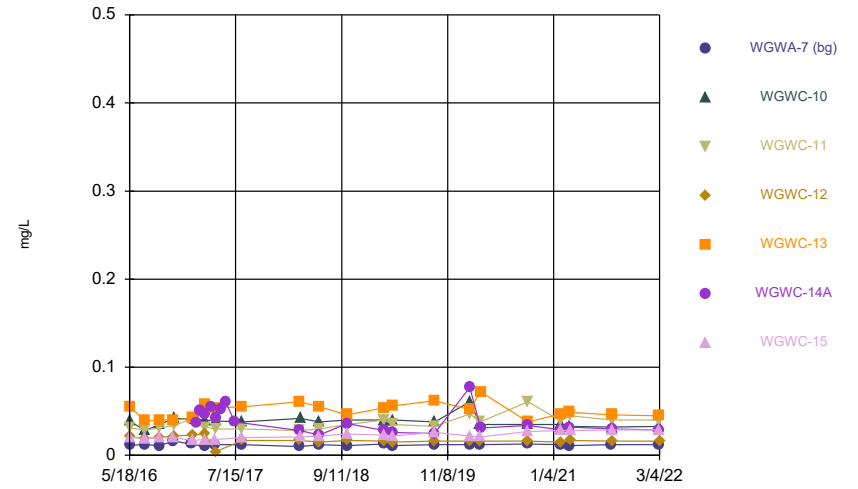
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Time Series



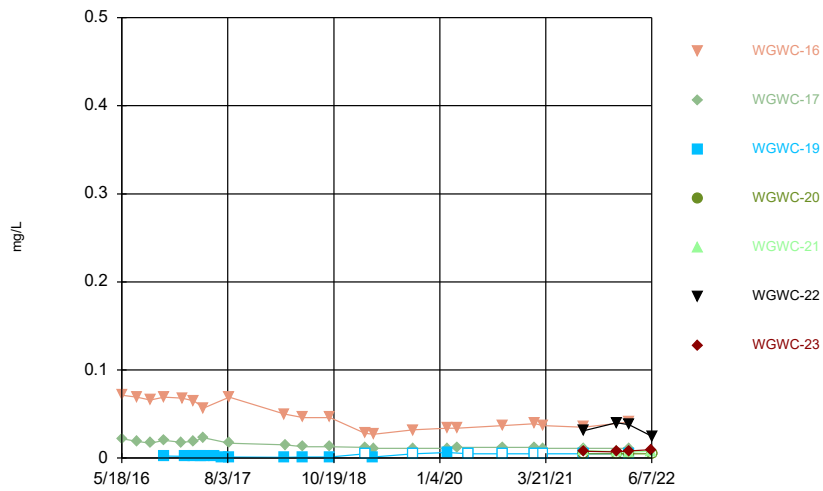
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



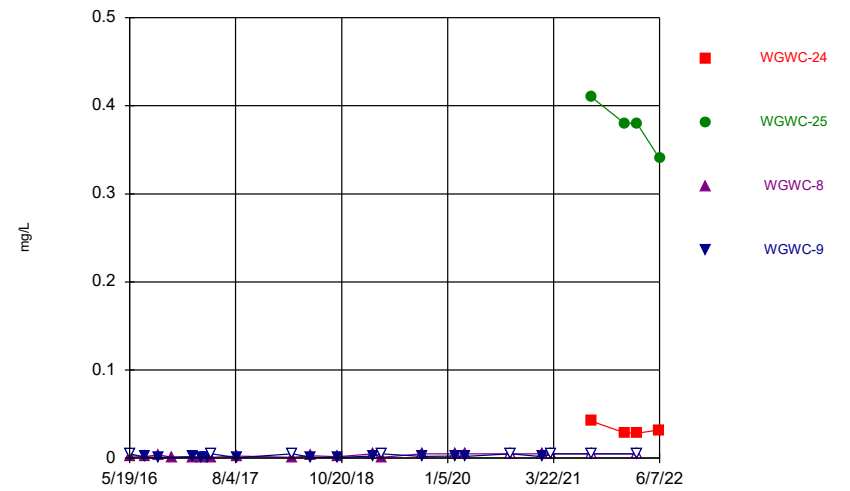
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Time Series



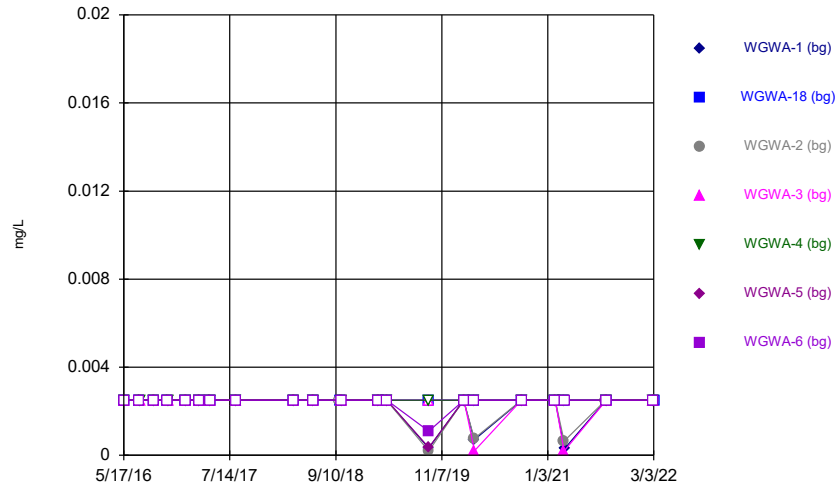
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Time Series



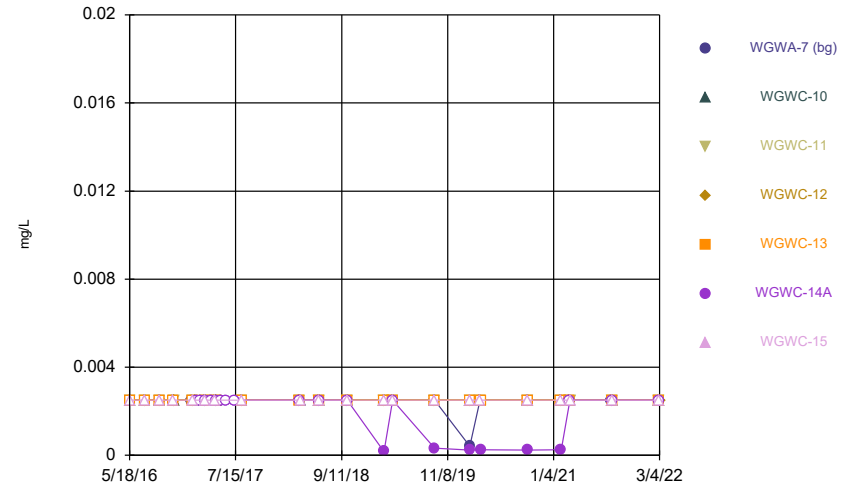
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Time Series



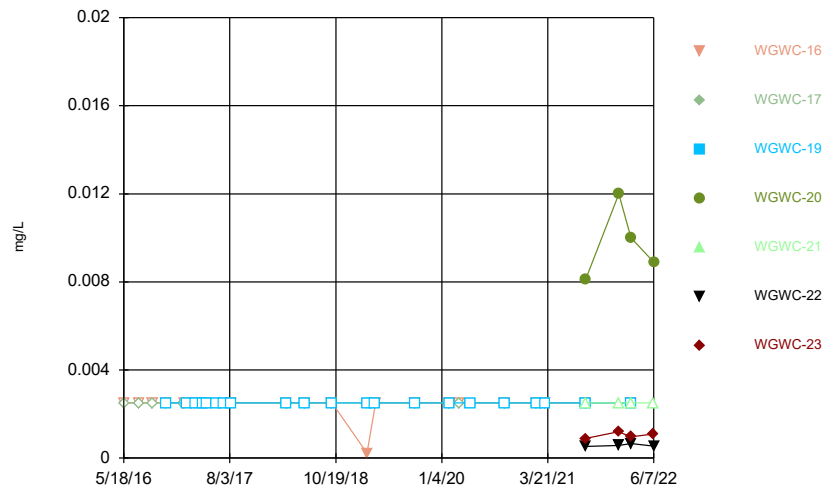
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Time Series



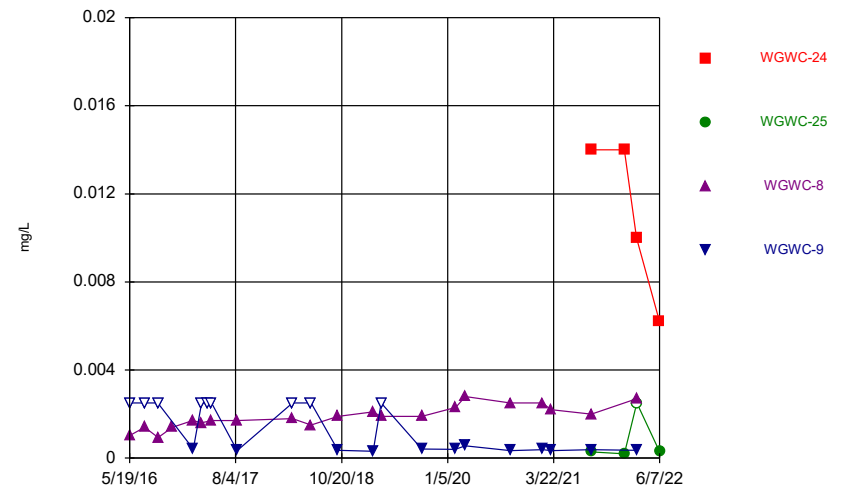
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Time Series



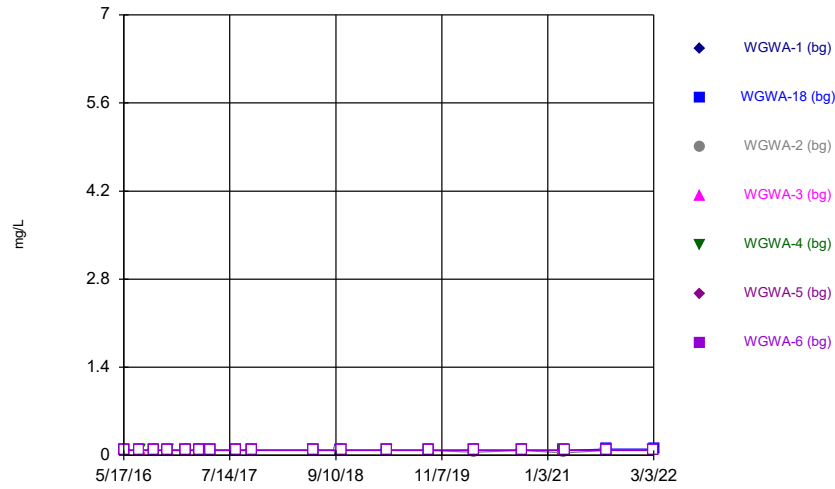
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Time Series



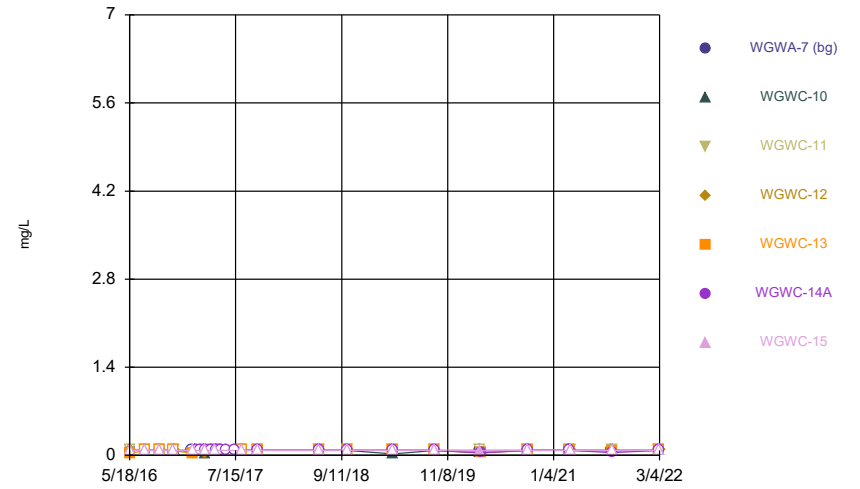
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



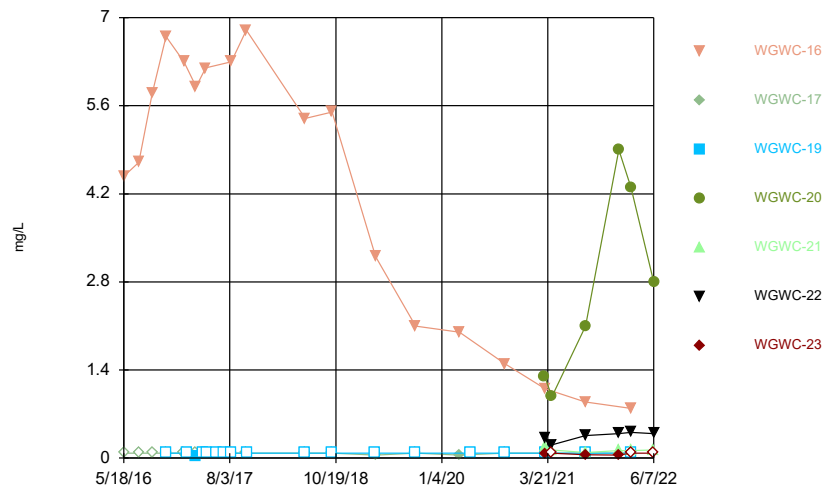
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



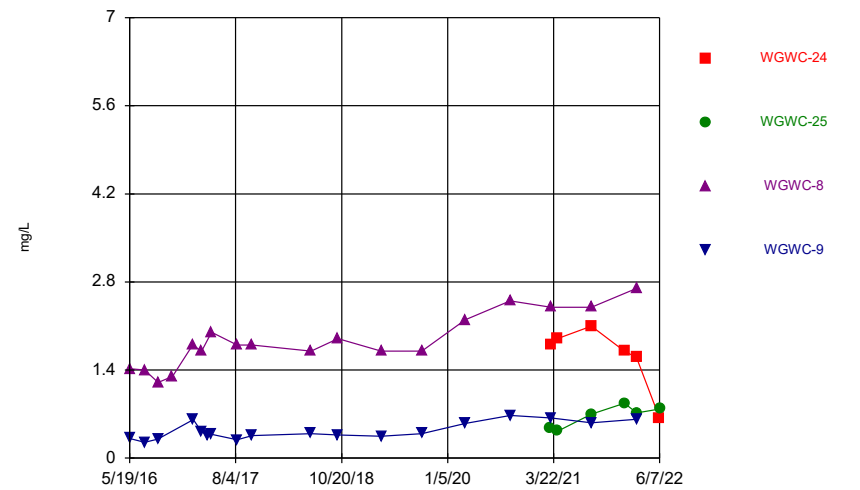
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Time Series



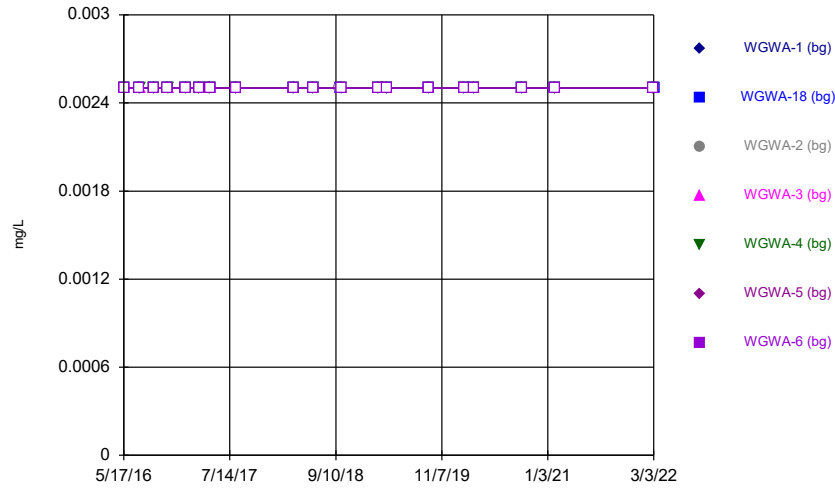
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



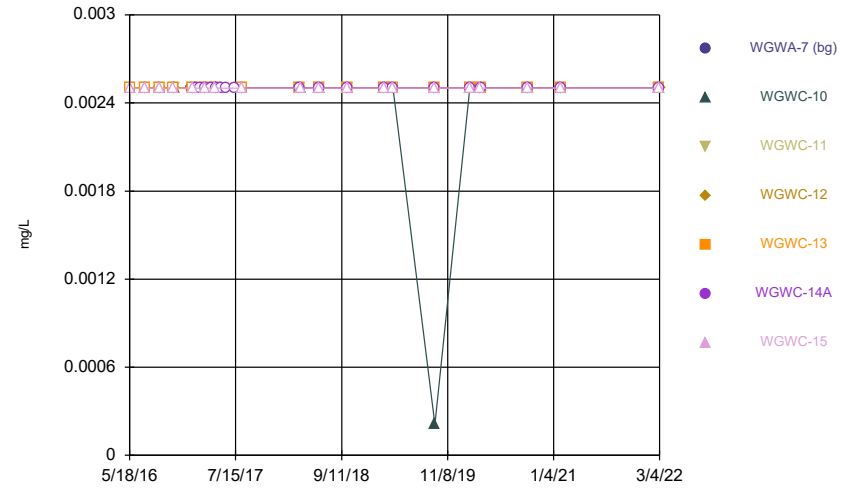
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Time Series



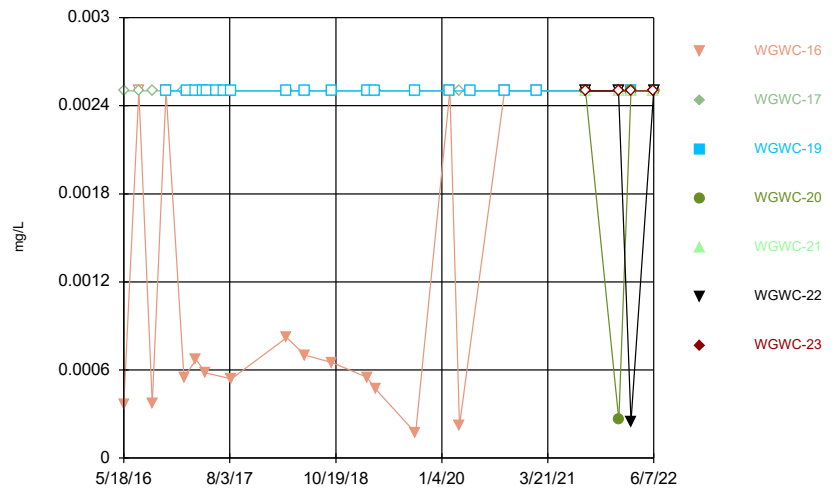
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



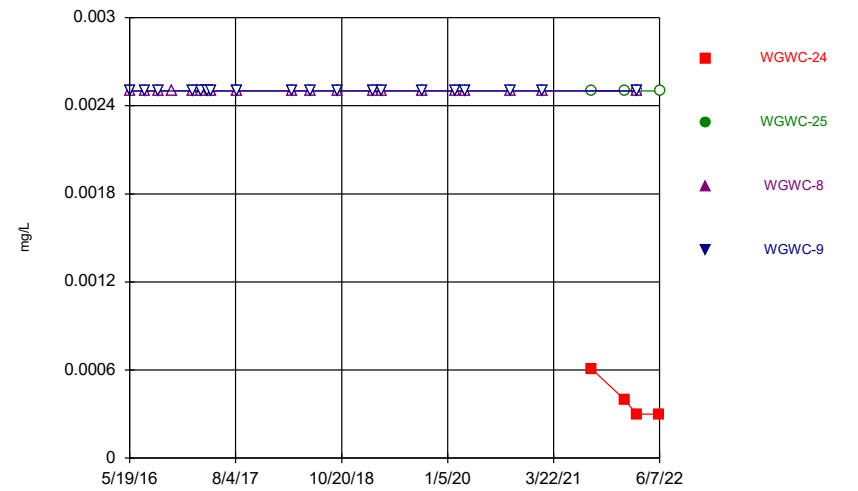
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Time Series



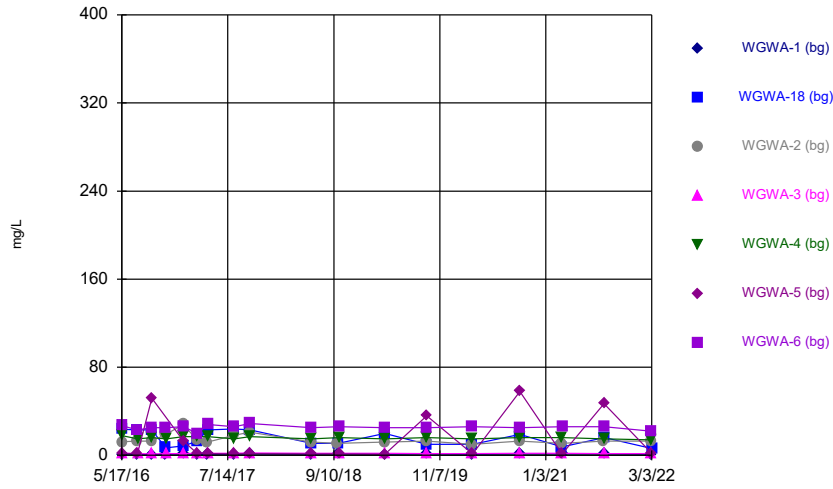
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Time Series



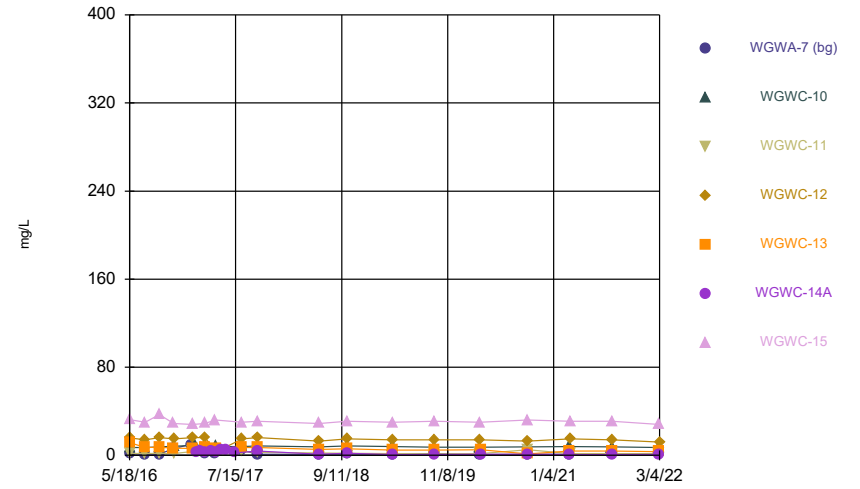
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Time Series



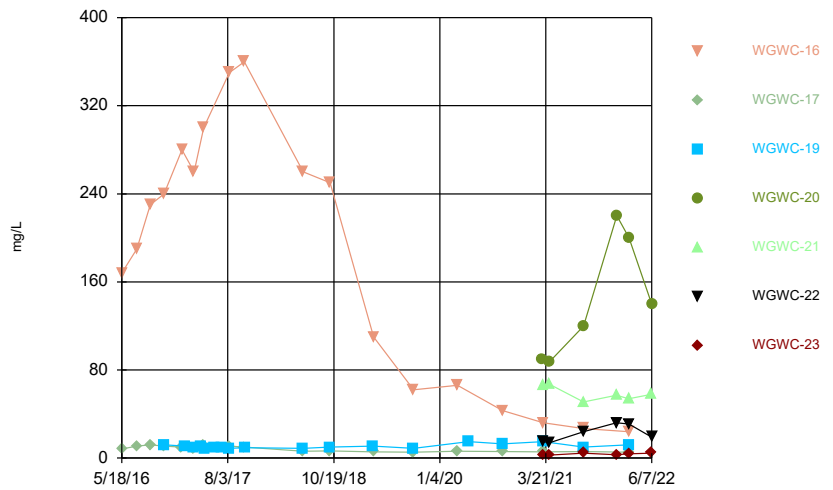
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Time Series



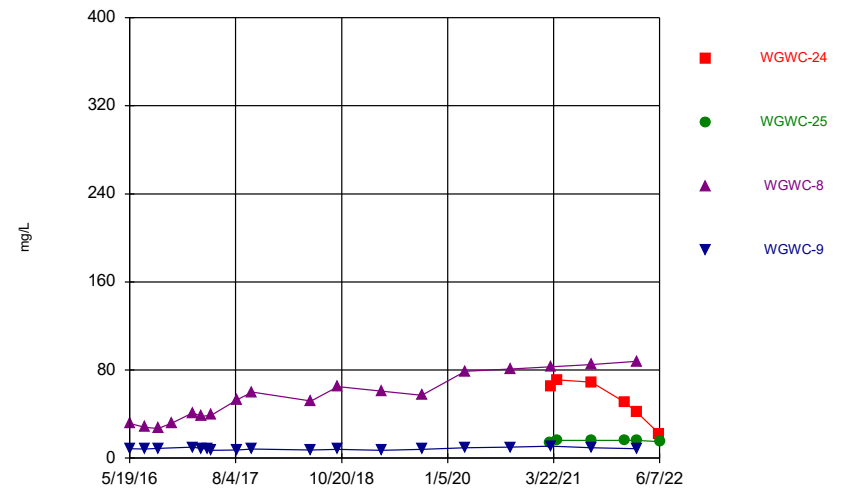
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Time Series



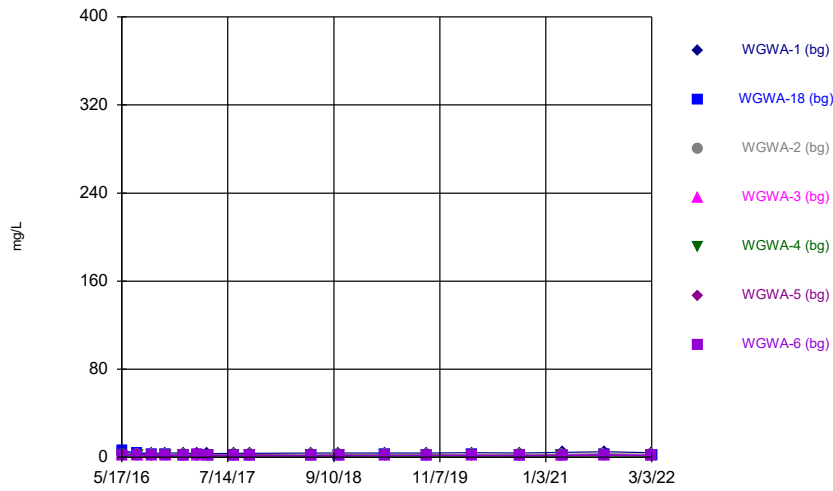
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Time Series



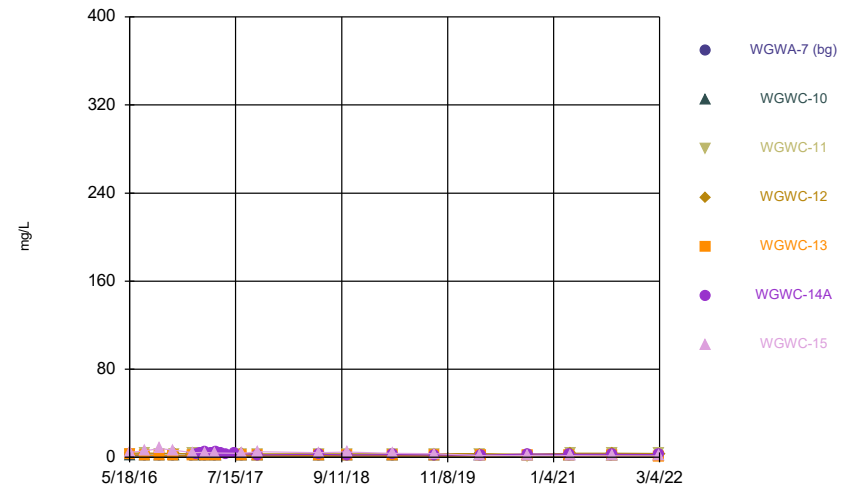
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Time Series



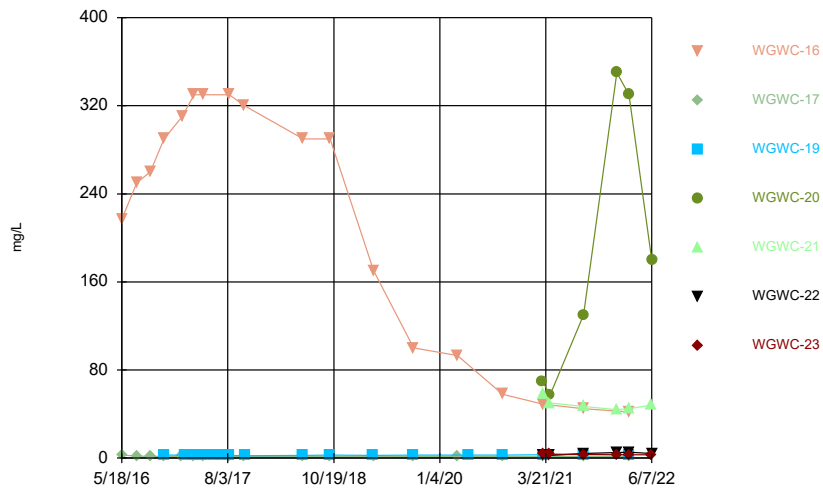
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Time Series



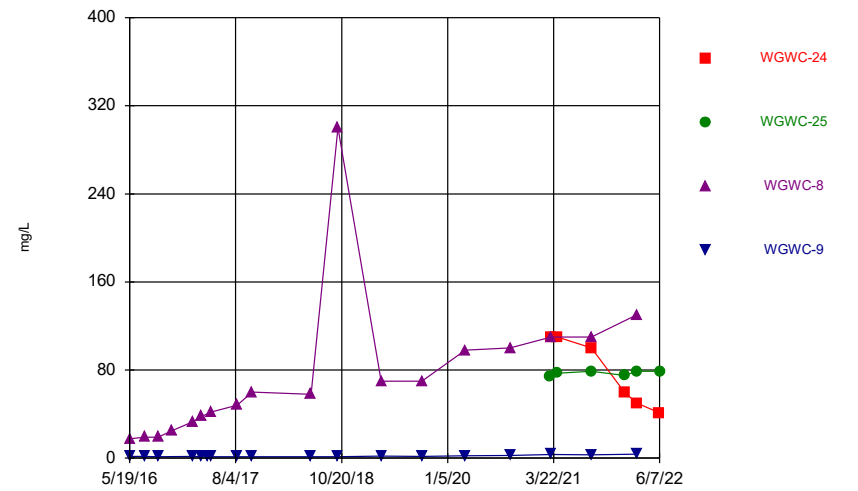
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Time Series



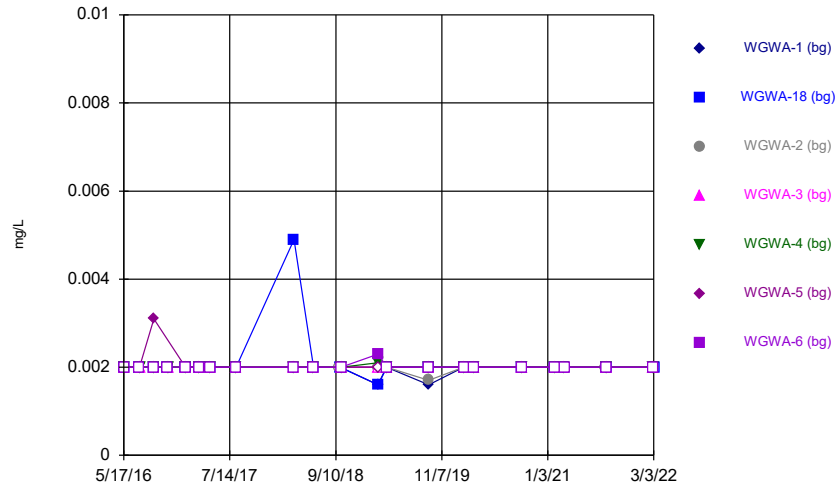
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



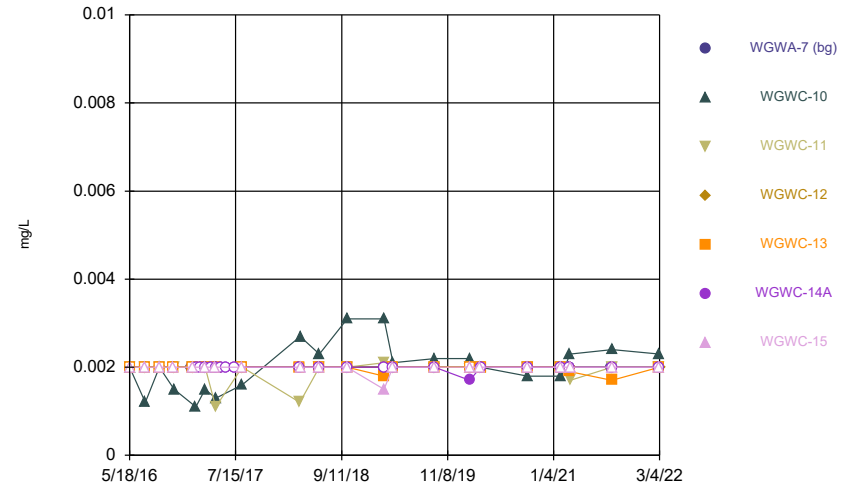
Constituent: Chloride, Total Analysis Run 7/12/2022 9:16 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



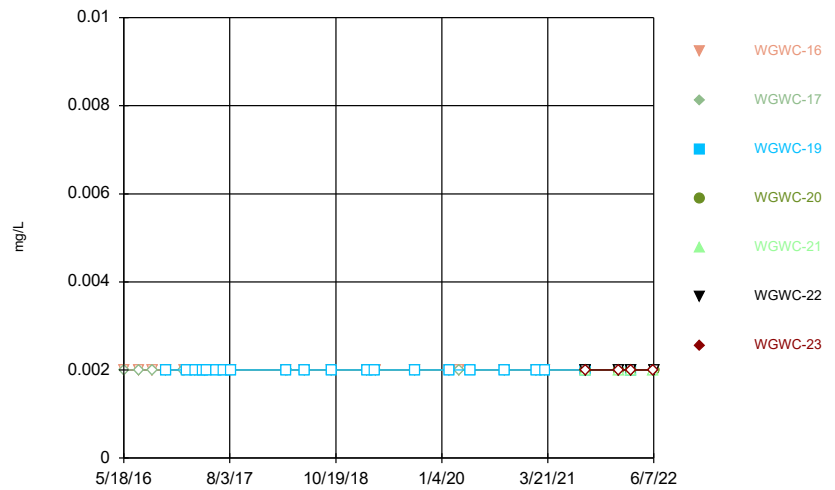
Constituent: Chromium Analysis Run 7/12/2022 9:16 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



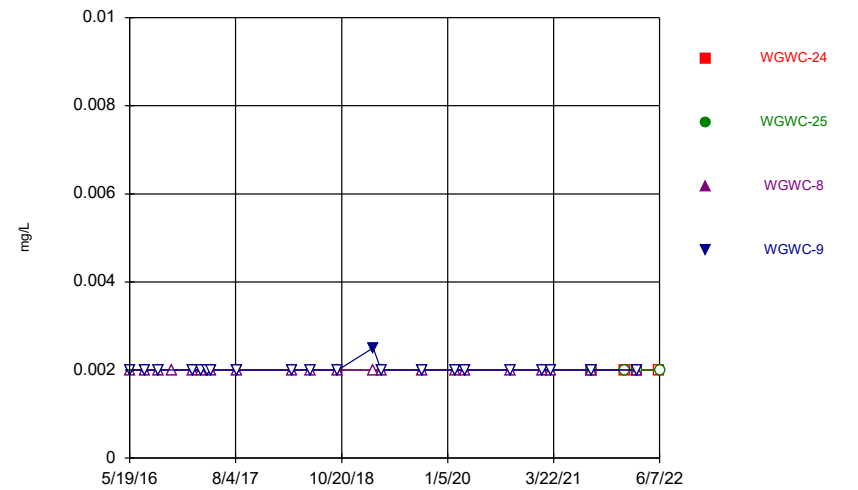
Constituent: Chromium Analysis Run 7/12/2022 9:16 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



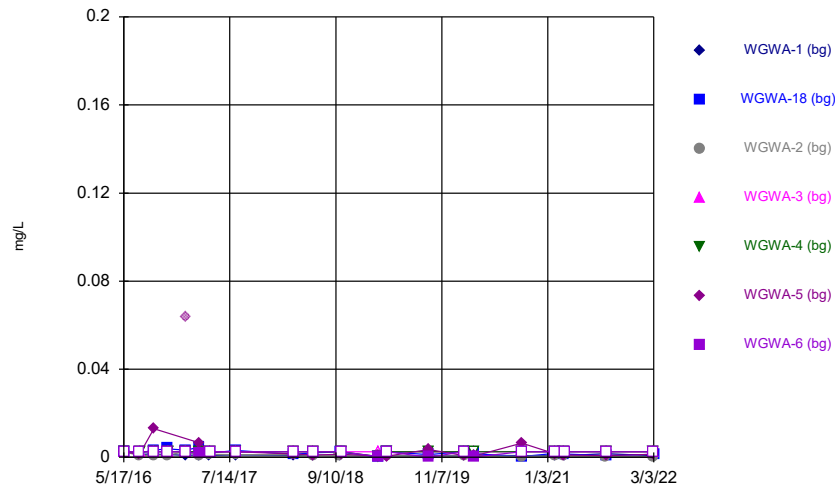
Constituent: Chromium Analysis Run 7/12/2022 9:16 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



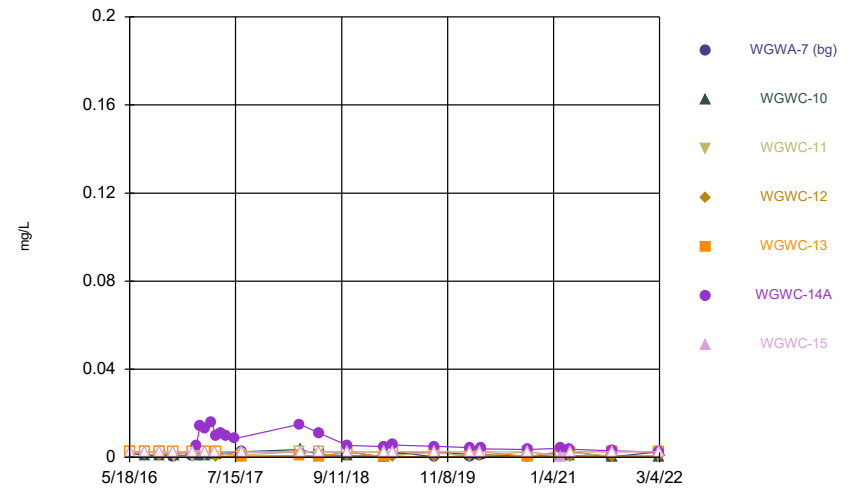
Constituent: Chromium Analysis Run 7/12/2022 9:16 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



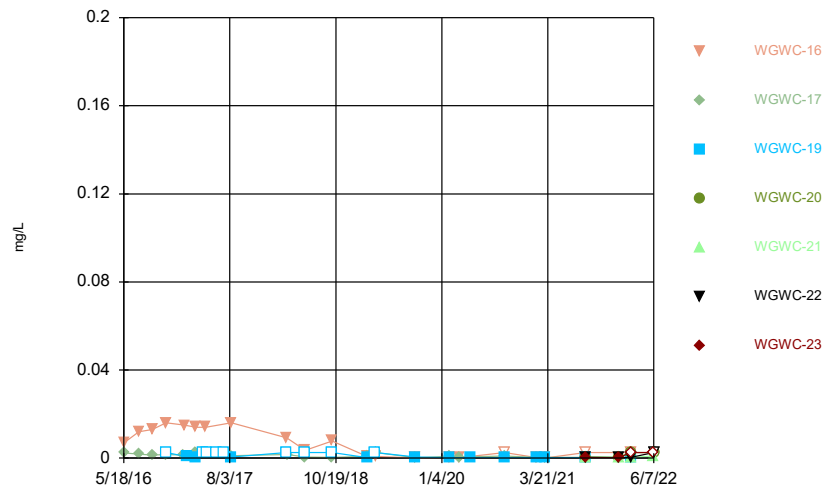
Constituent: Cobalt Analysis Run 7/12/2022 9:16 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



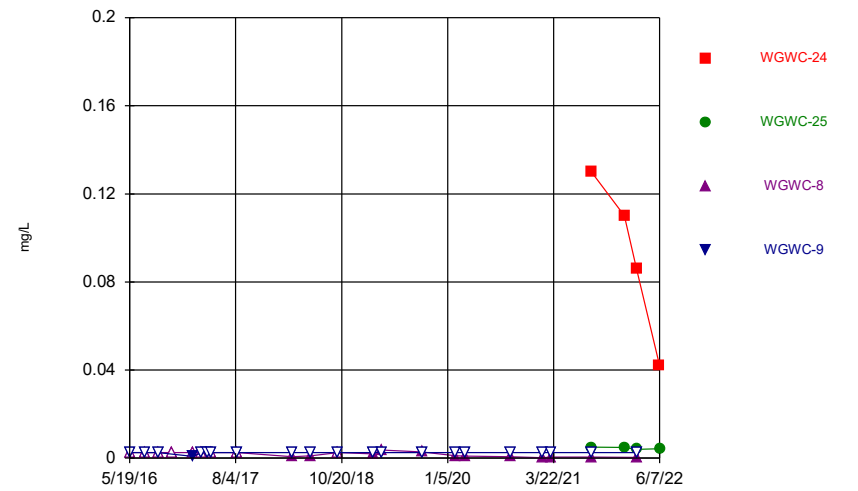
Constituent: Cobalt Analysis Run 7/12/2022 9:16 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



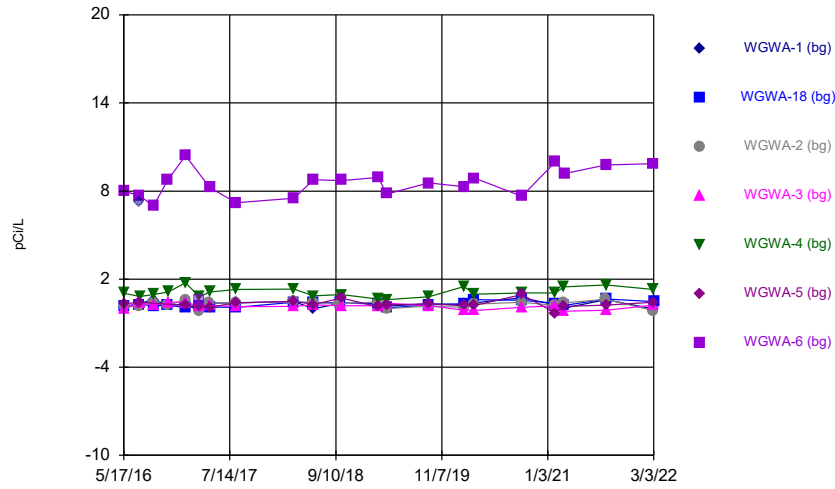
Constituent: Cobalt Analysis Run 7/12/2022 9:16 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



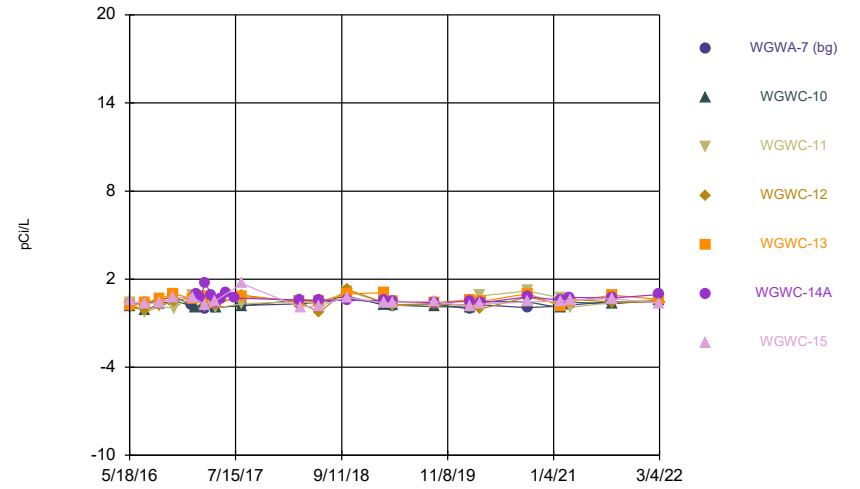
Constituent: Cobalt Analysis Run 7/12/2022 9:16 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



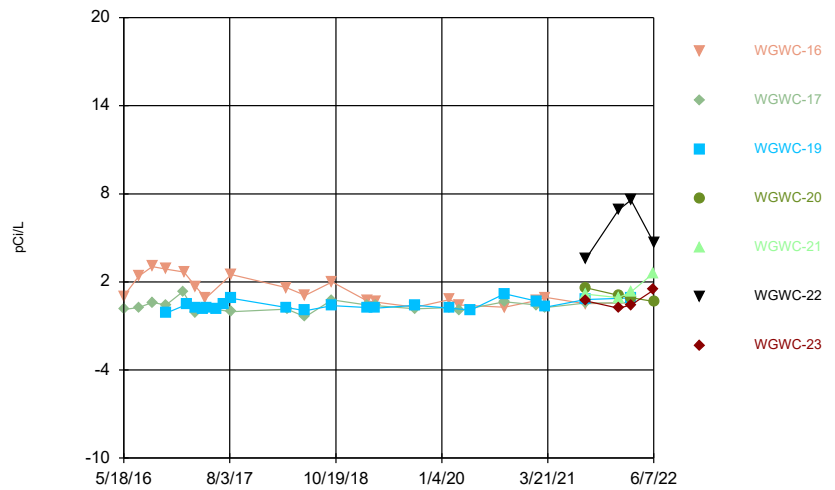
Constituent: Combined Radium 226 + 228 Analysis Run 7/12/2022 9:16 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



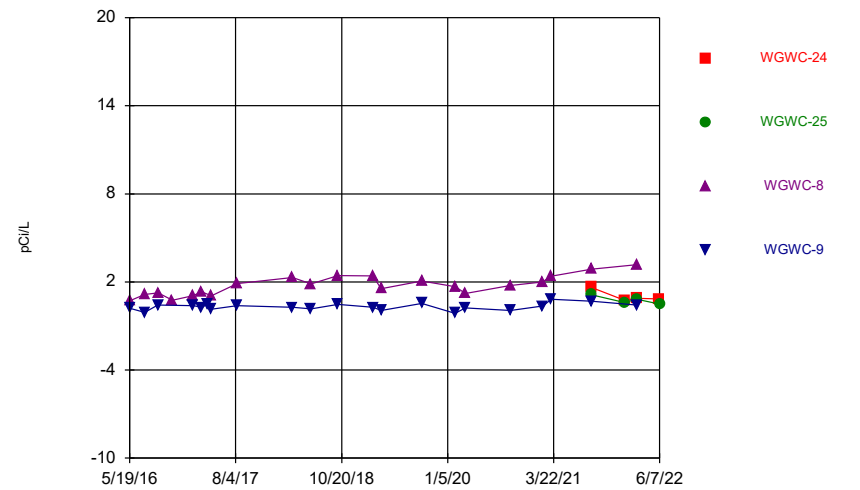
Constituent: Combined Radium 226 + 228 Analysis Run 7/12/2022 9:16 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



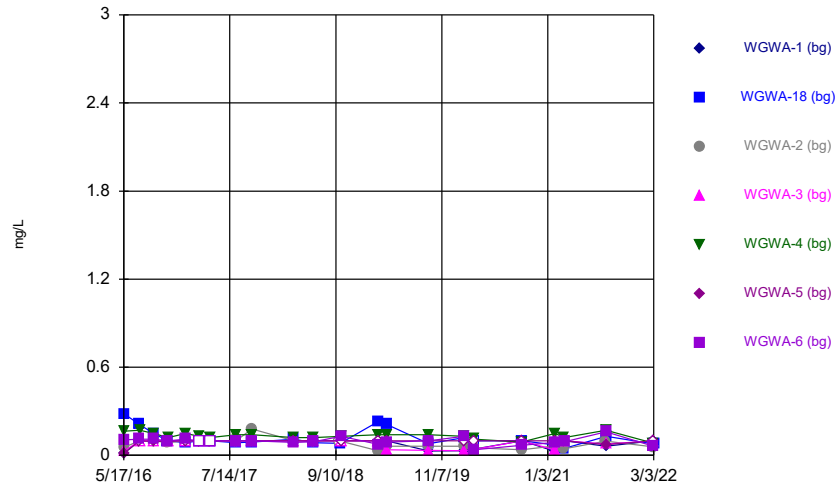
Constituent: Combined Radium 226 + 228 Analysis Run 7/12/2022 9:16 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



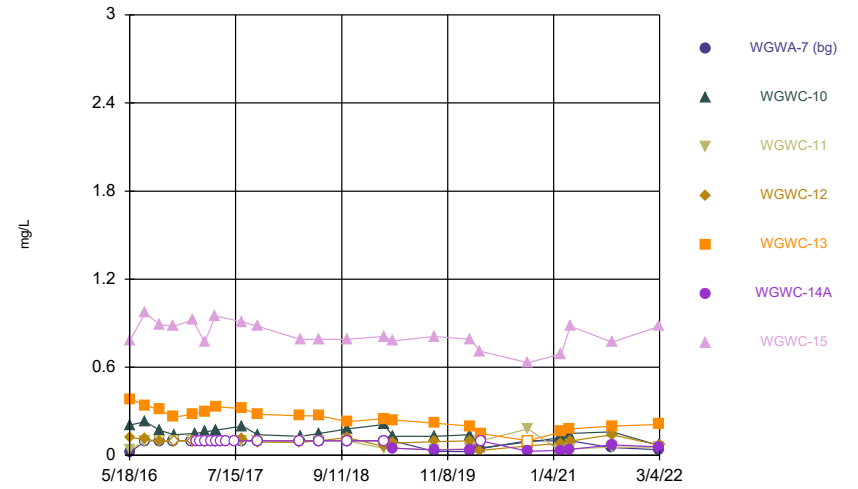
Constituent: Combined Radium 226 + 228 Analysis Run 7/12/2022 9:16 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



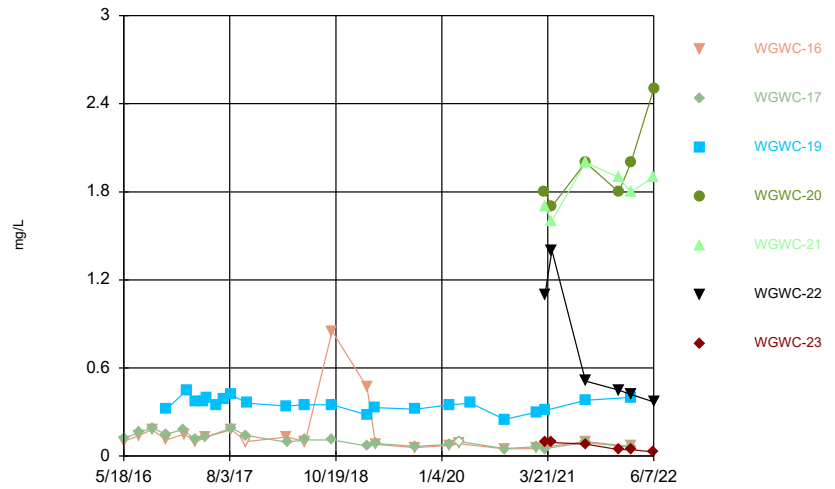
Constituent: Fluoride, total Analysis Run 7/12/2022 9:16 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



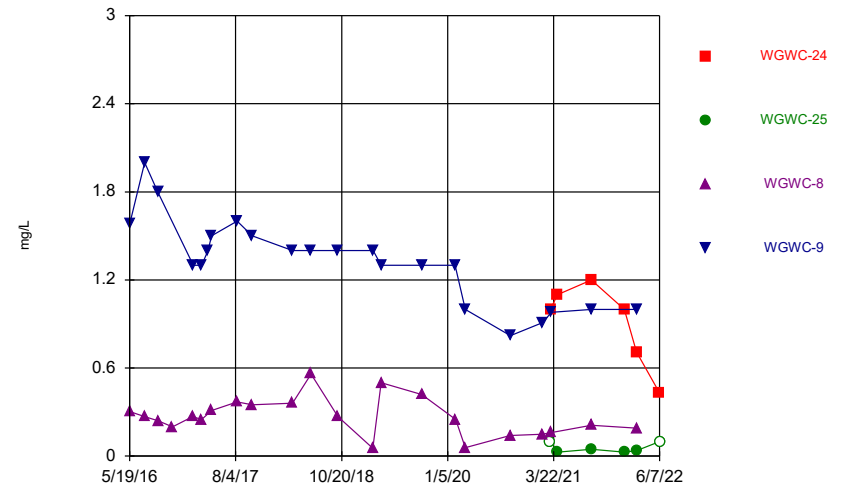
Constituent: Fluoride, total Analysis Run 7/12/2022 9:16 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



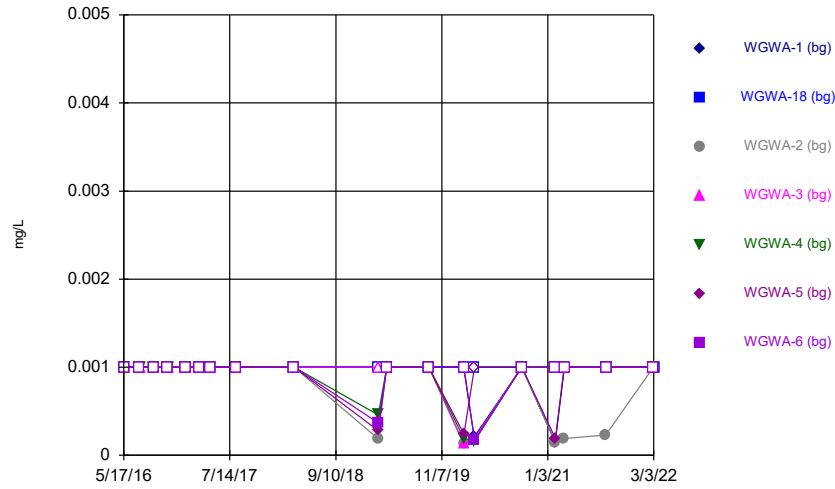
Constituent: Fluoride, total Analysis Run 7/12/2022 9:16 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



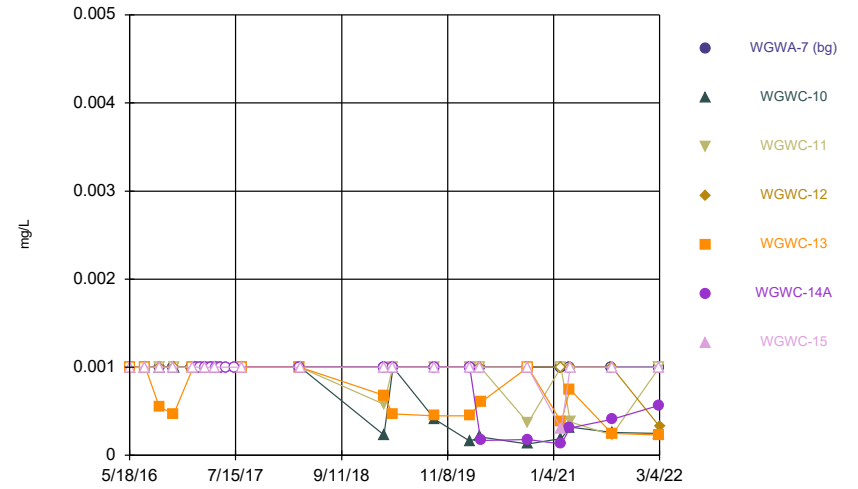
Constituent: Fluoride, total Analysis Run 7/12/2022 9:16 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



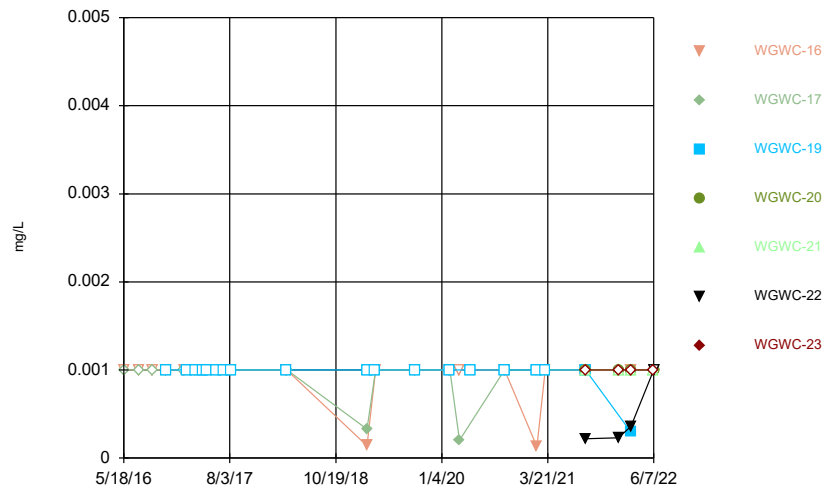
Constituent: Lead Analysis Run 7/12/2022 9:16 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



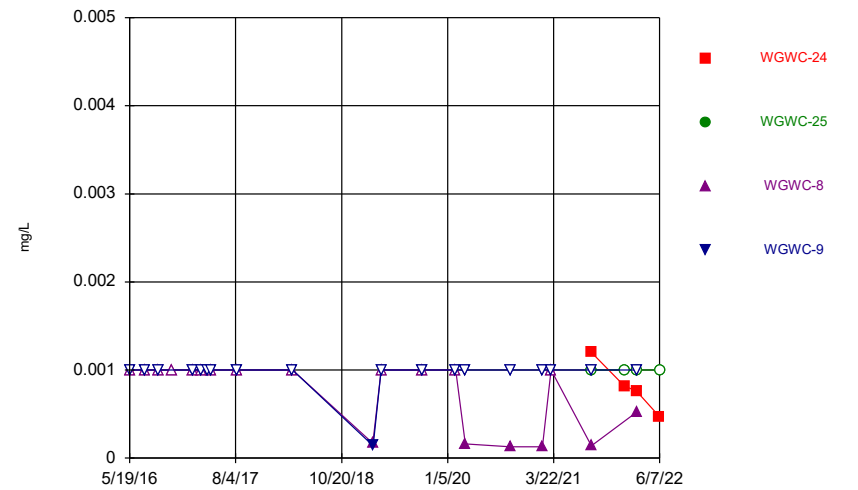
Constituent: Lead Analysis Run 7/12/2022 9:16 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



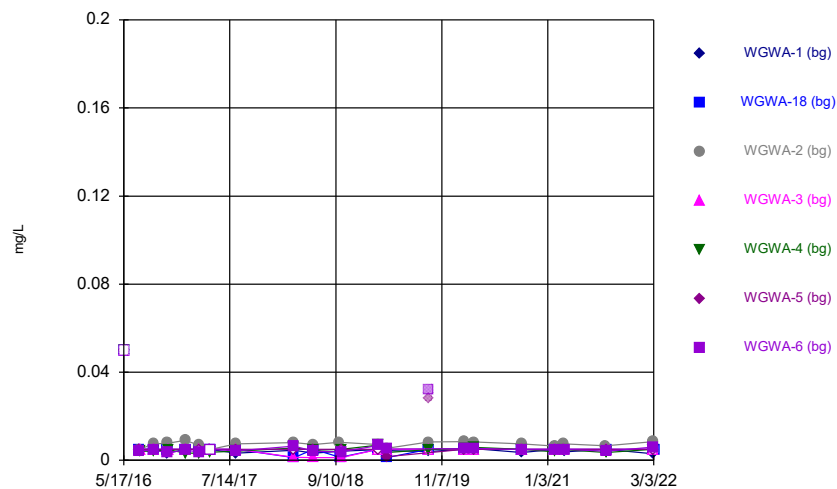
Constituent: Lead Analysis Run 7/12/2022 9:16 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



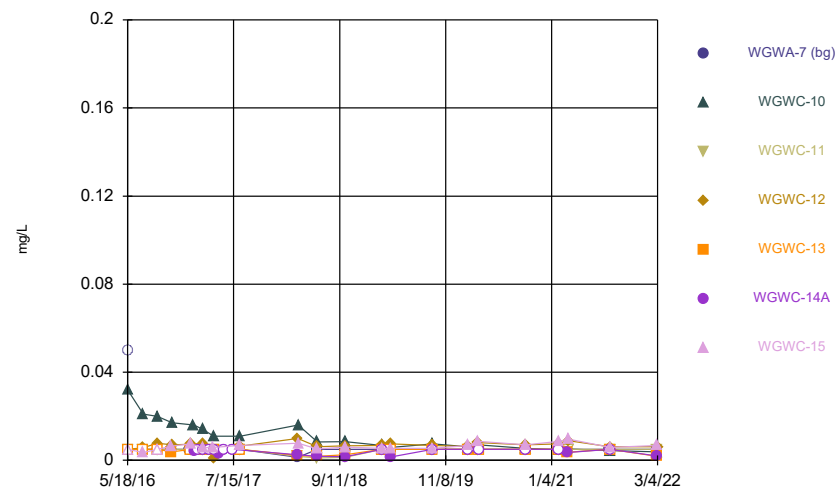
Constituent: Lead Analysis Run 7/12/2022 9:16 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



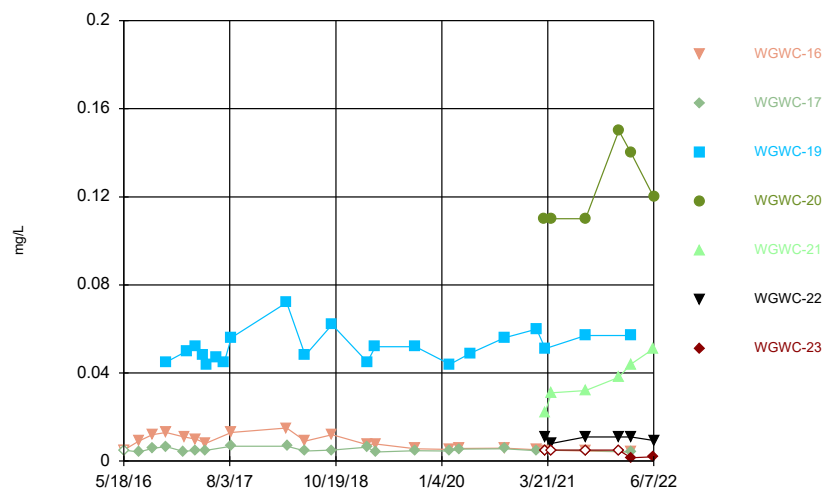
Constituent: Lithium Analysis Run 7/12/2022 9:16 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



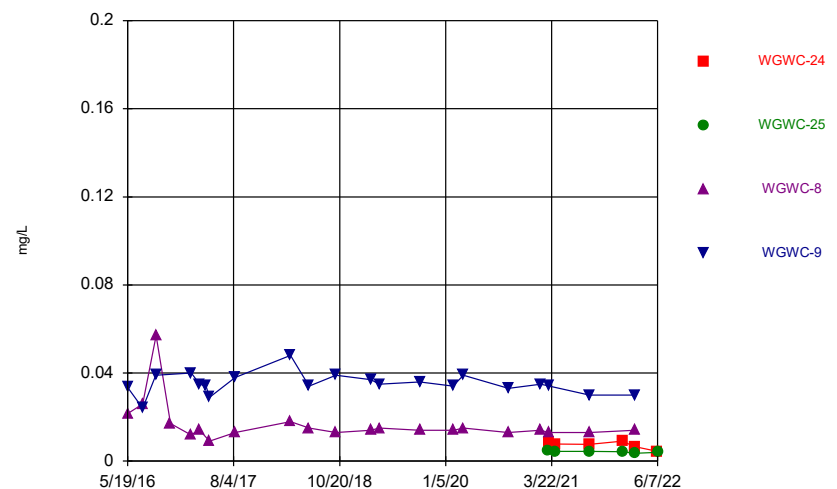
Constituent: Lithium Analysis Run 7/12/2022 9:16 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



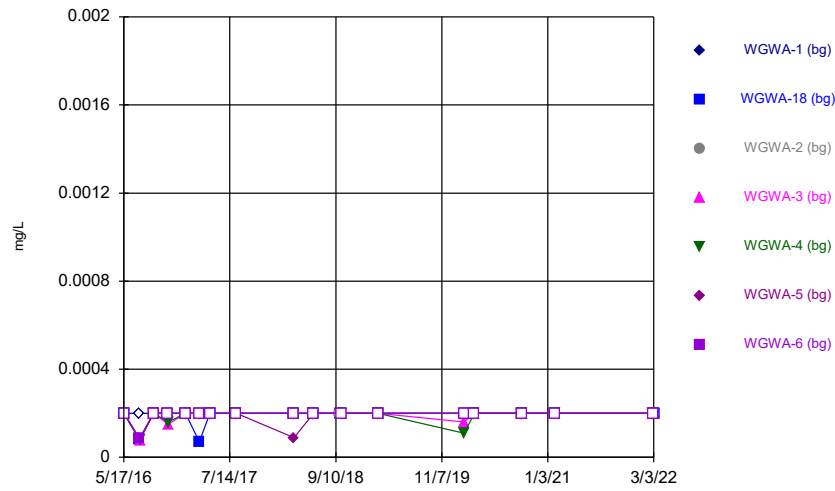
Constituent: Lithium Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



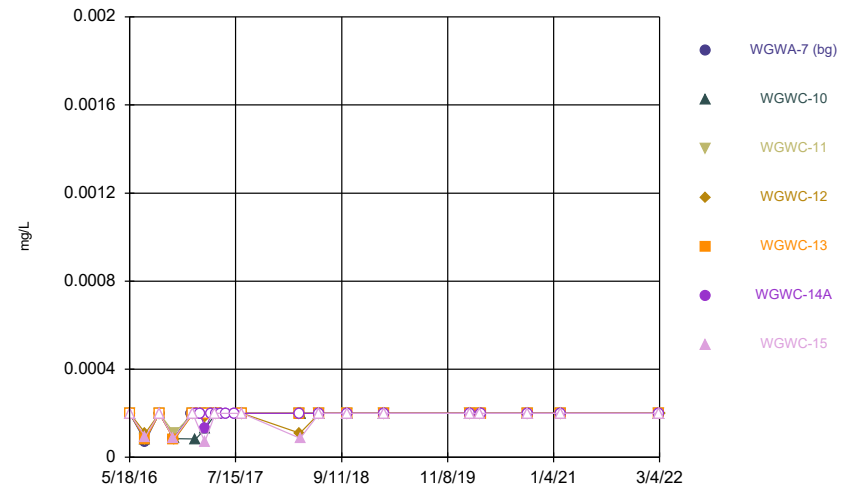
Constituent: Lithium Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



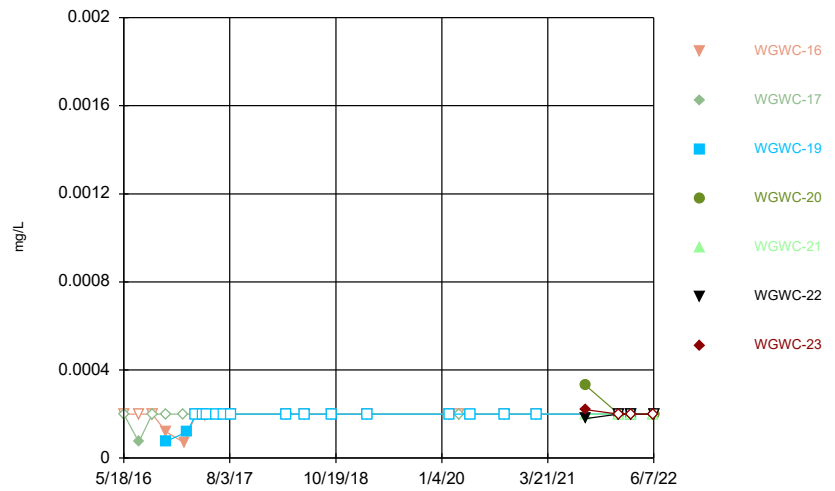
Constituent: Mercurly Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



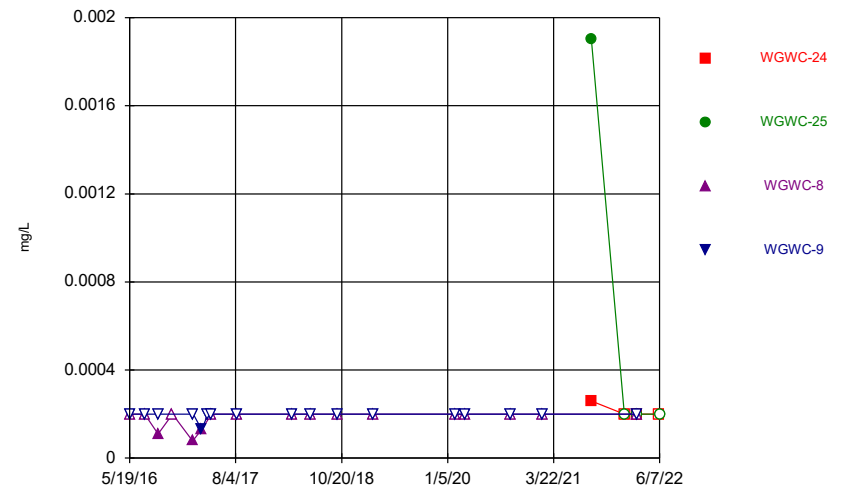
Constituent: Mercurly Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



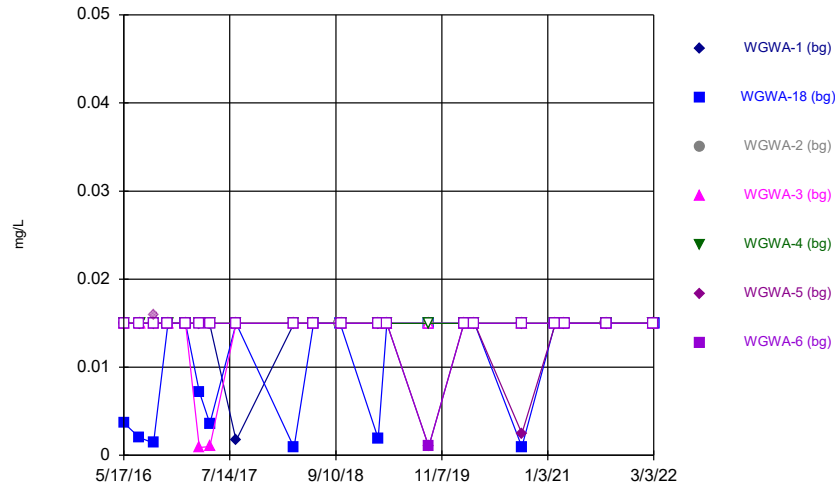
Constituent: Mercurly Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



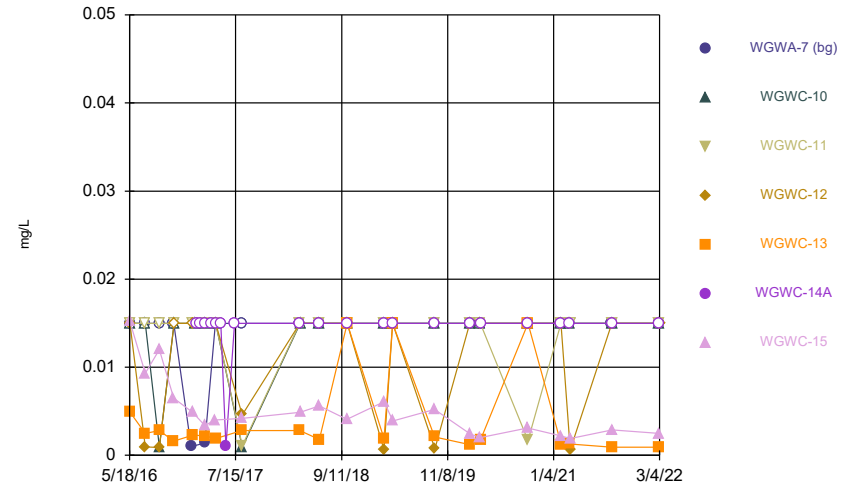
Constituent: Mercurly Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



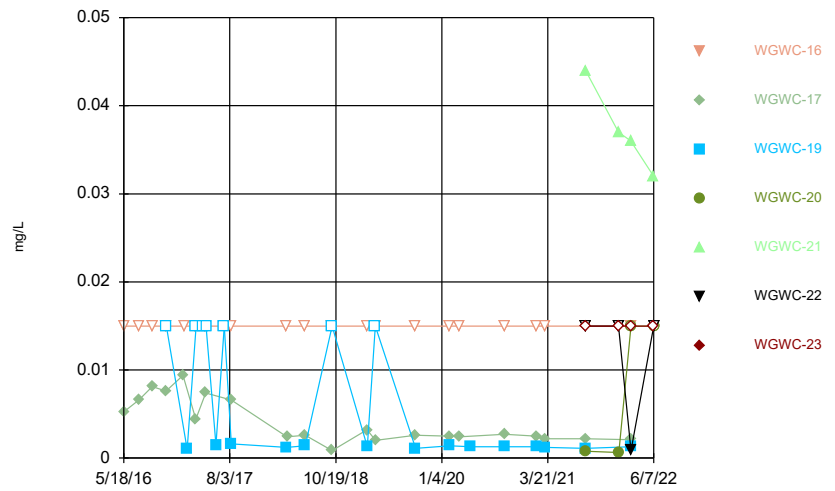
Constituent: Molybdenum Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



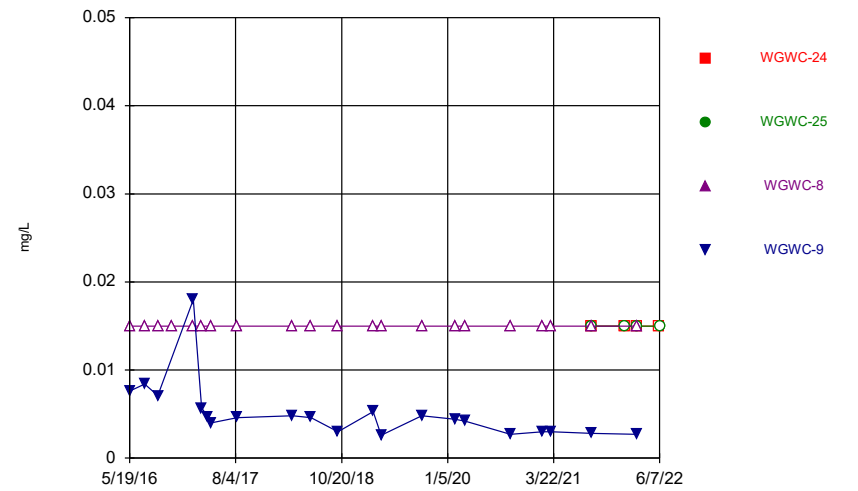
Constituent: Molybdenum Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



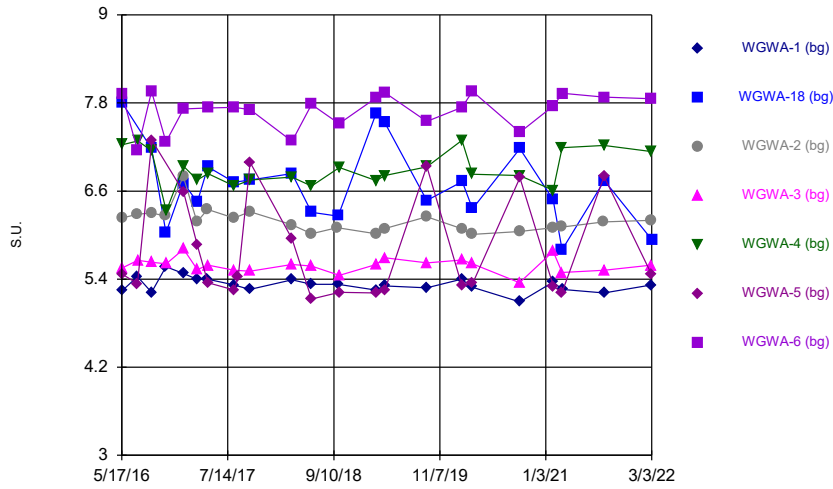
Constituent: Molybdenum Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



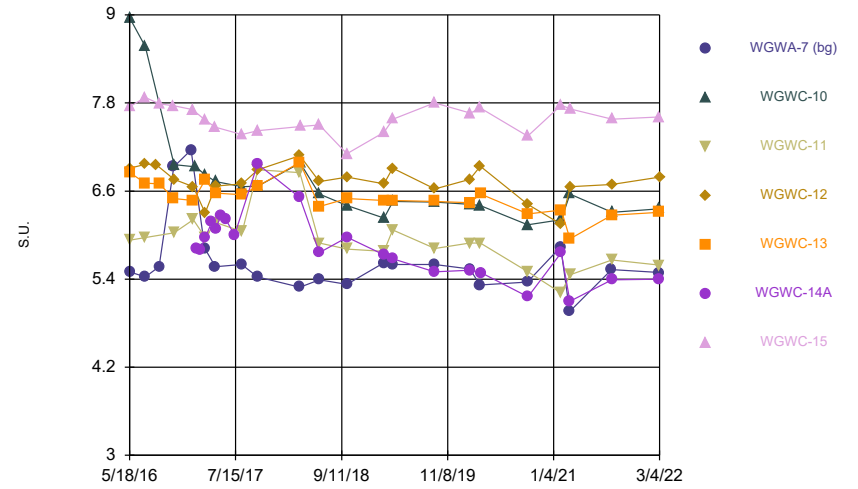
Constituent: Molybdenum Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



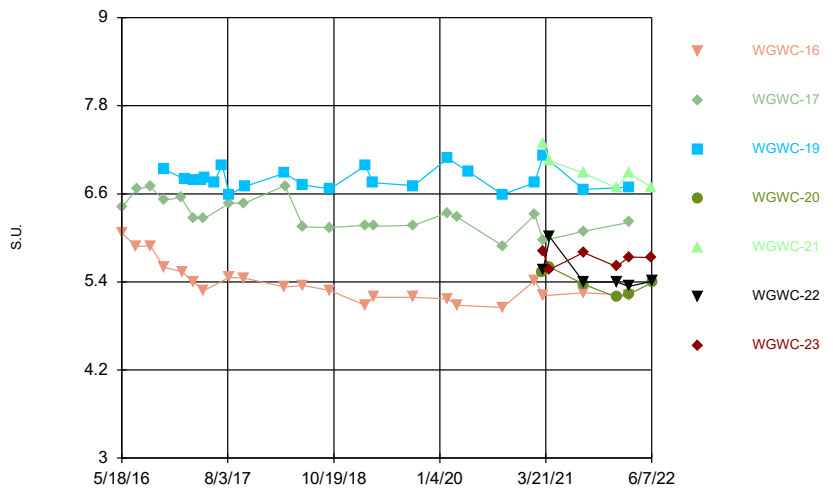
Constituent: pH, Field Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



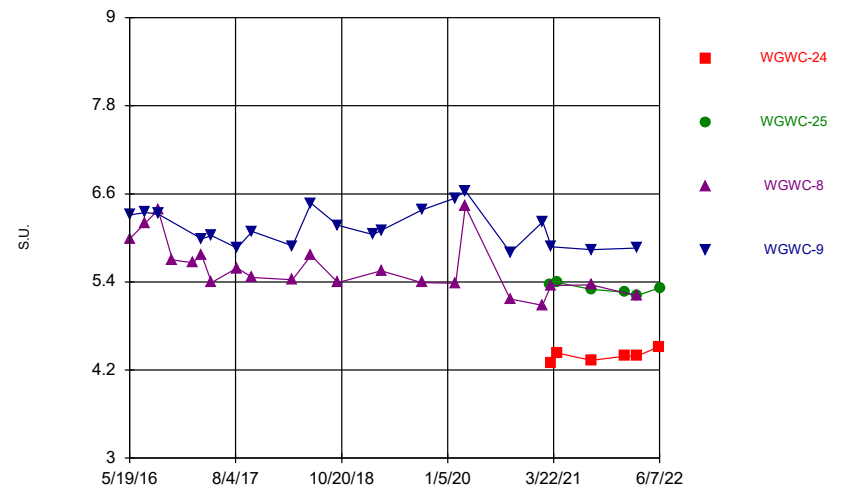
Constituent: pH, Field Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



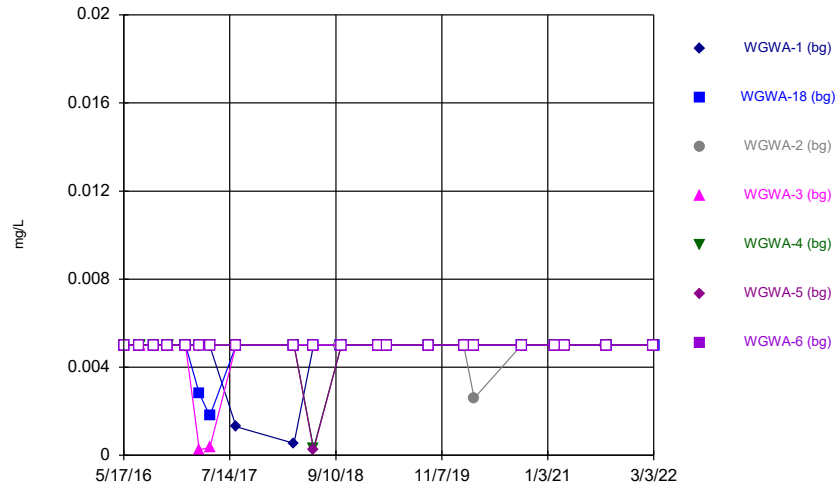
Constituent: pH, Field Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



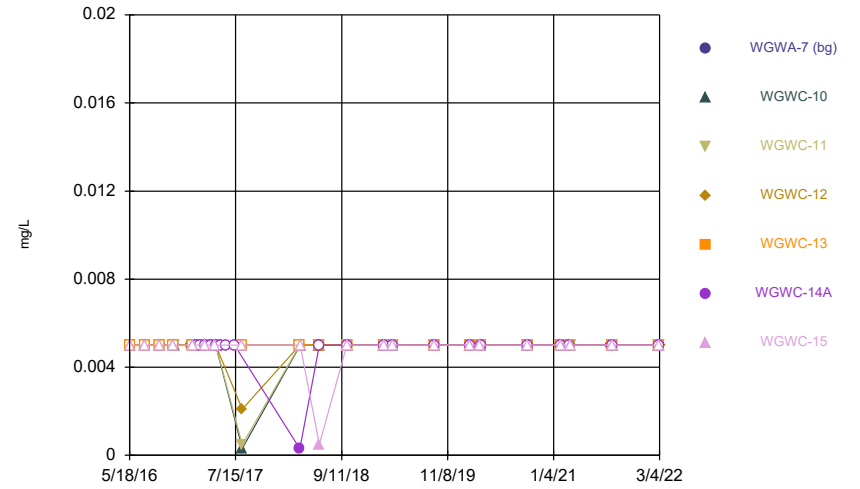
Constituent: pH, Field Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



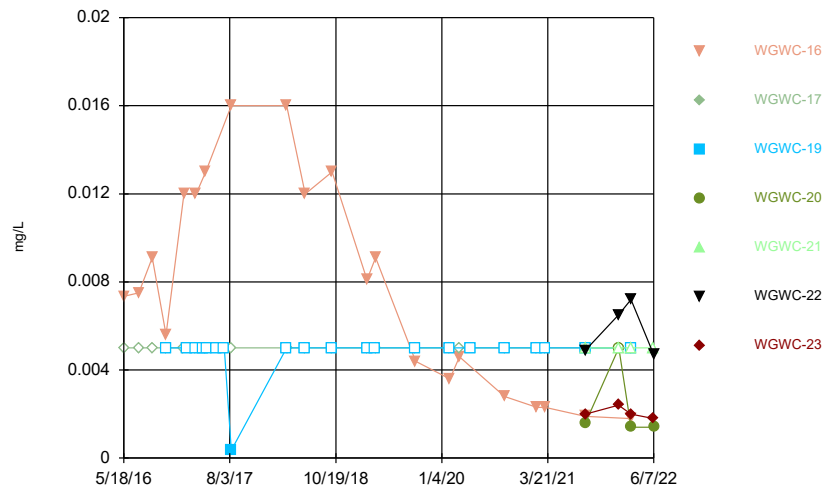
Constituent: Selenium Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



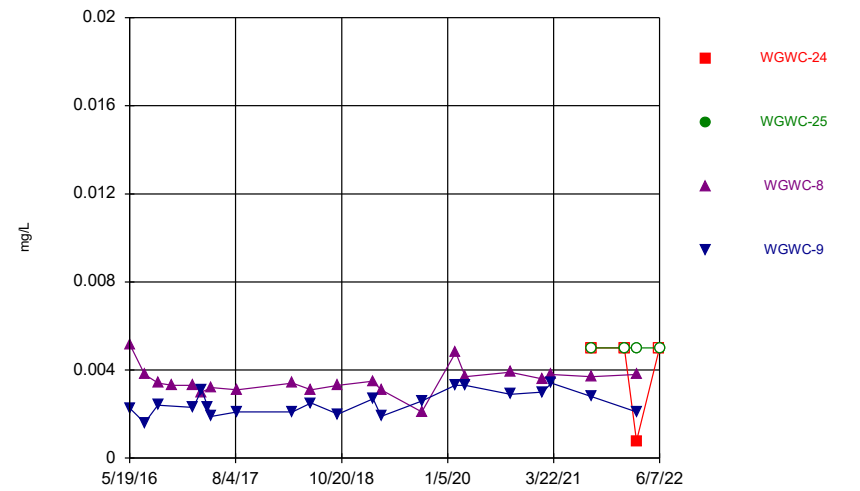
Constituent: Selenium Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



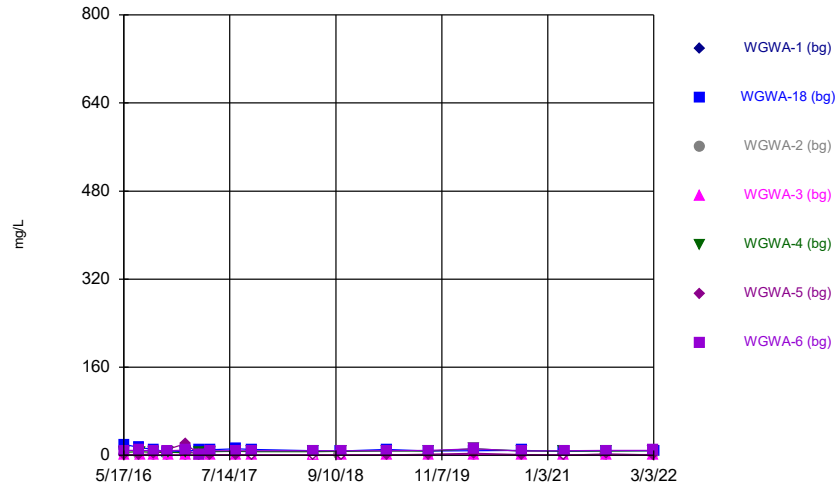
Constituent: Selenium Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



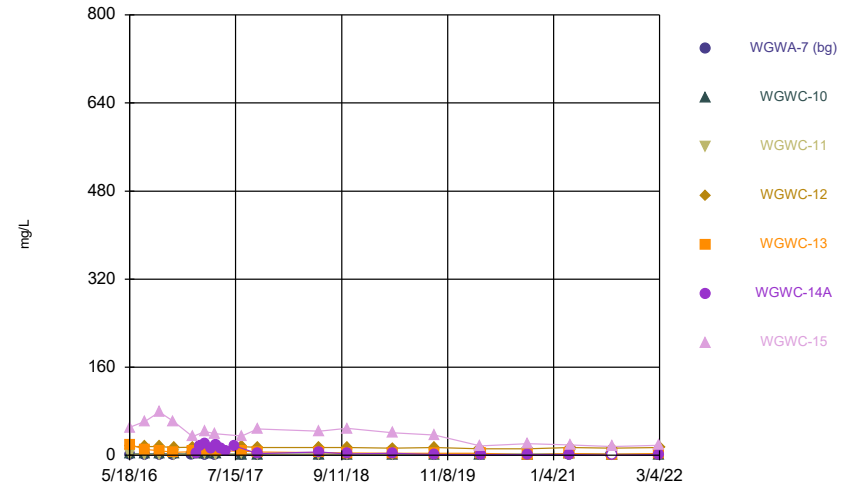
Constituent: Selenium Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



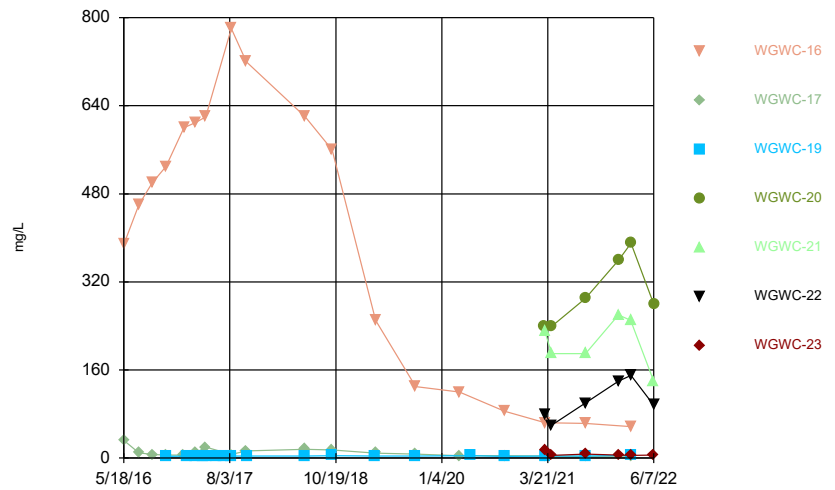
Constituent: Sulfate as SO4 Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



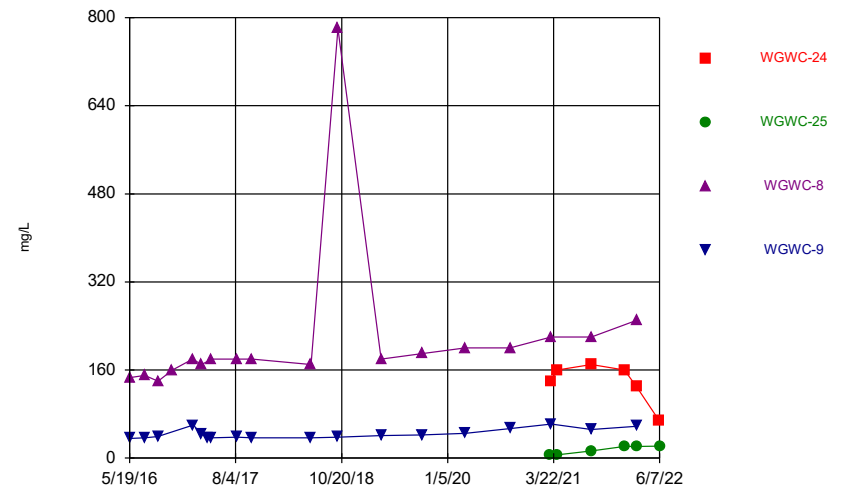
Constituent: Sulfate as SO4 Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



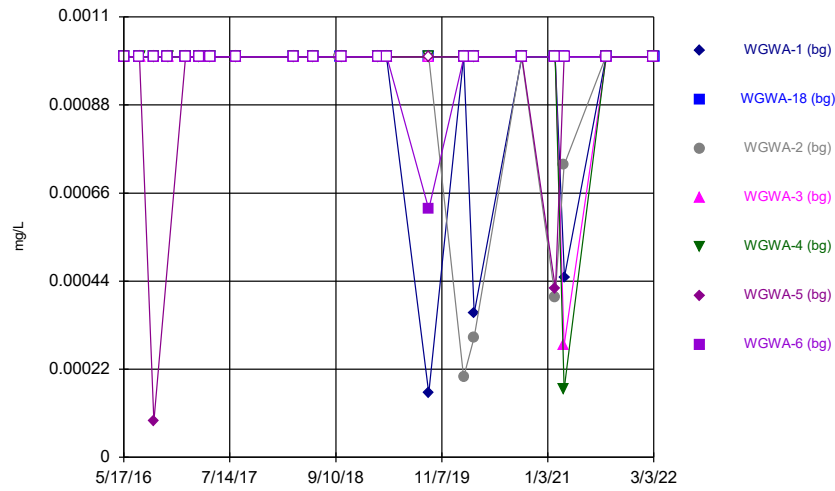
Constituent: Sulfate as SO4 Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



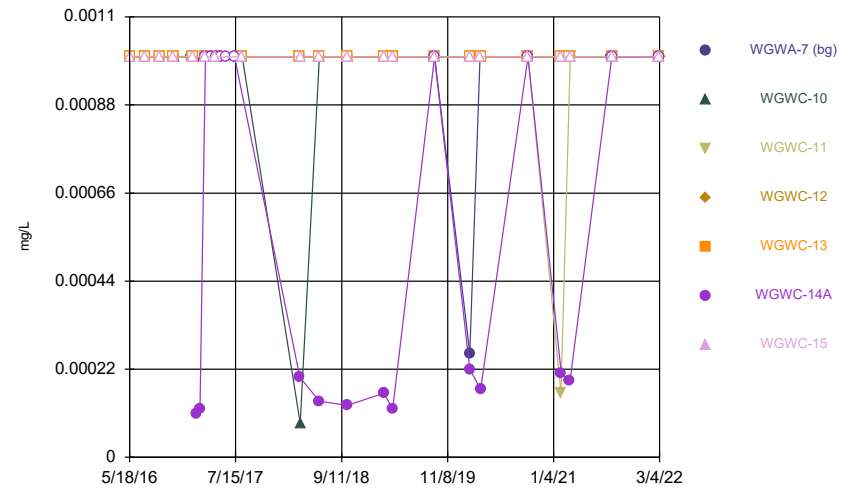
Constituent: Sulfate as SO4 Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



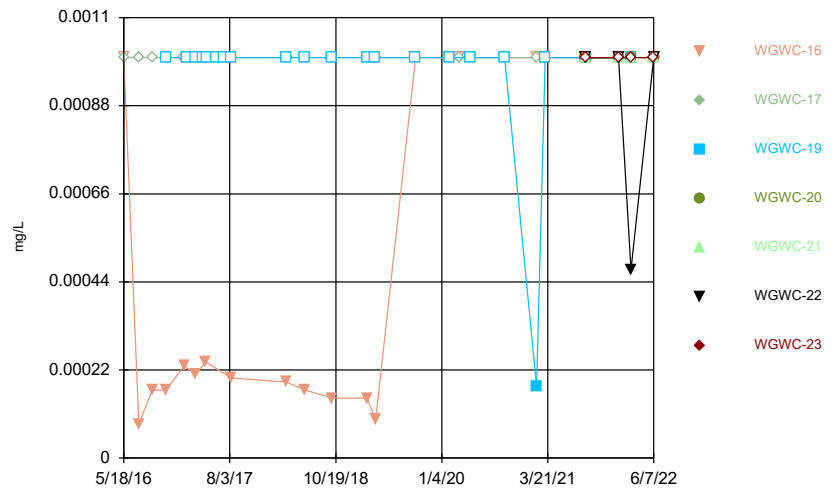
Constituent: Thallium Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



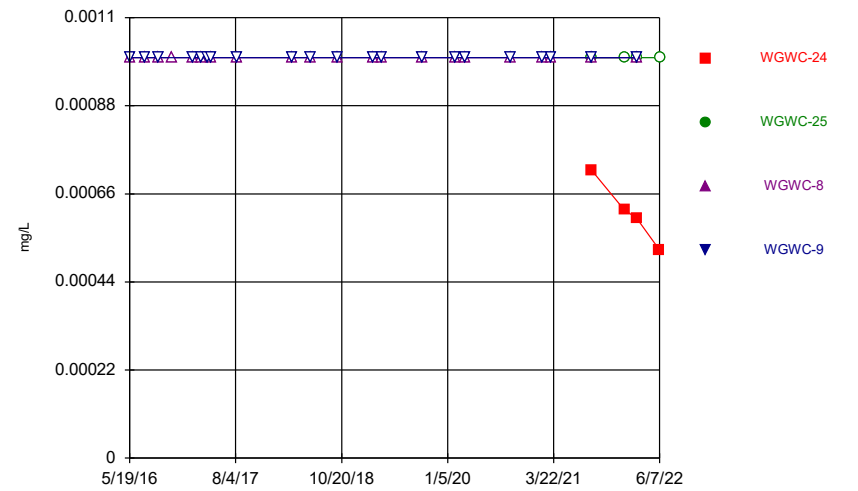
Constituent: Thallium Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



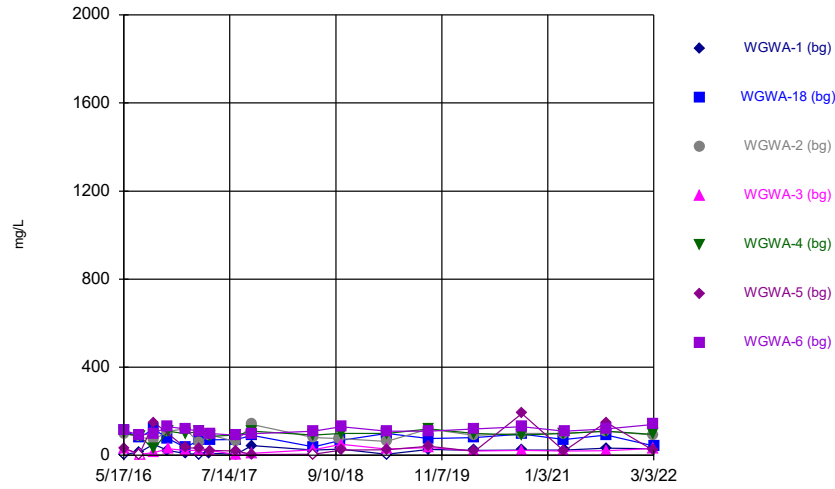
Constituent: Thallium Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



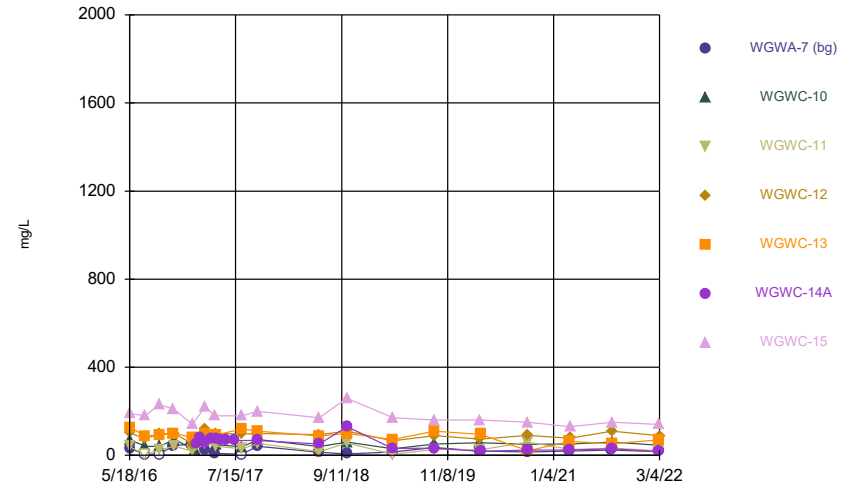
Constituent: Thallium Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



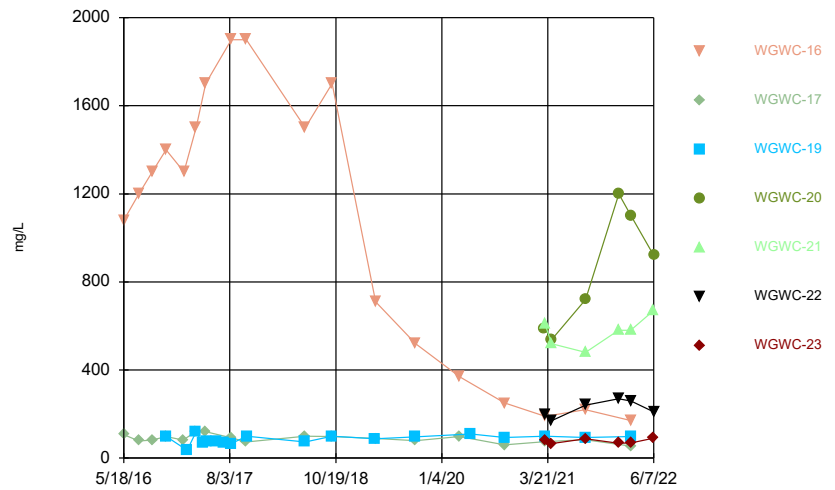
Constituent: Total Dissolved Solids [TDS] Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



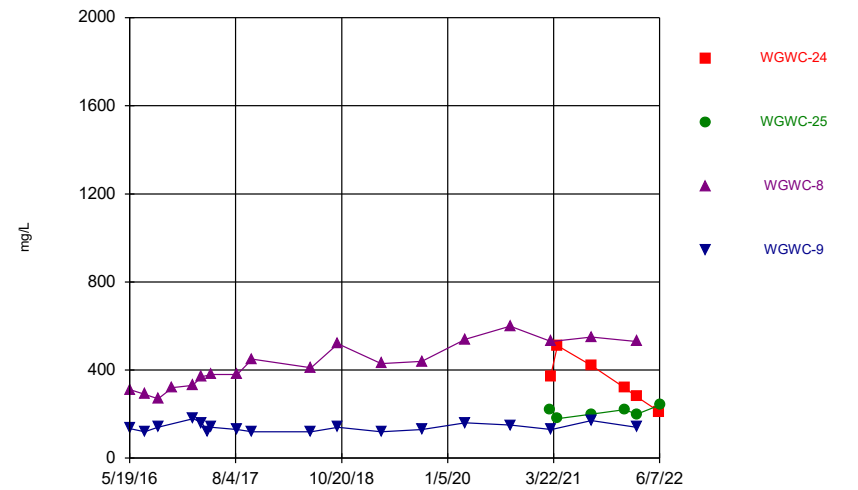
Constituent: Total Dissolved Solids [TDS] Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.002	<0.002	<0.002				
5/18/2016				<0.002	<0.002	<0.002	<0.002
7/19/2016	<0.002	<0.002	<0.002			<0.002	<0.002
7/20/2016				<0.002	<0.002		
9/13/2016	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002
9/14/2016						<0.002	
11/9/2016	<0.002	<0.002	<0.002				<0.002
11/10/2016				<0.002	<0.002		
1/17/2017	<0.002		<0.002				
1/18/2017				<0.002	<0.002		<0.002
1/19/2017		<0.002				<0.002	
3/13/2017	<0.002		<0.002				
3/14/2017		<0.002		<0.002	<0.002	<0.002	<0.002
4/24/2017	<0.002		<0.002				
4/25/2017		<0.002		<0.002	<0.002	<0.002	<0.002
8/8/2017	0.0022 (J)	<0.002	<0.002	<0.002			<0.002
8/9/2017					<0.002	<0.002	
3/27/2018	<0.002		<0.002				
3/28/2018		<0.002		<0.002	<0.002	<0.002	<0.002
2/25/2019	<0.002		<0.002				
2/26/2019		<0.002		<0.002	<0.002	<0.002	<0.002
2/3/2020	<0.002		<0.002				
2/4/2020				<0.002	<0.002	<0.002	<0.002
2/5/2020		<0.002					
3/16/2020	<0.002		<0.002				
3/17/2020		<0.002		<0.002	<0.002	<0.002	<0.002
2/2/2021	0.00062 (J)	<0.002	<0.002	<0.002	<0.002		
2/3/2021						<0.002	<0.002
3/10/2021		<0.002	<0.002	<0.002	<0.002	<0.002	
3/11/2021	<0.002						<0.002
8/23/2021			<0.002				
8/24/2021	<0.002				<0.002	<0.002	<0.002
8/25/2021		<0.002		<0.002			
2/28/2022					<0.002		
3/1/2022	<0.002		<0.002	<0.002		<0.002	<0.002
3/3/2022		<0.002					

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.002	<0.002					<0.002
5/19/2016			<0.002	<0.002	<0.002		
7/19/2016	<0.002						<0.002
7/20/2016		<0.002	<0.002	<0.002	<0.002		
9/13/2016	<0.002						
9/14/2016		<0.002	<0.002	<0.002	<0.002		<0.002
11/10/2016	<0.002				<0.002		<0.002
11/11/2016		<0.002	<0.002	<0.002			
1/18/2017	<0.002						
1/24/2017							<0.002
1/27/2017			<0.002	<0.002	<0.002		
2/6/2017		<0.002					
2/8/2017						<0.002	
2/23/2017						<0.002	
3/14/2017	<0.002						<0.002
3/15/2017		<0.002	<0.002	<0.002	<0.002		
3/17/2017						<0.002	
4/11/2017						<0.002	
4/25/2017	<0.002						<0.002
4/26/2017		<0.002	<0.002	<0.002	<0.002	<0.002	
5/17/2017						<0.002	
6/7/2017						<0.002	
7/11/2017						<0.002	
8/8/2017	<0.002						
8/9/2017					<0.002		<0.002
8/10/2017		<0.002	<0.002	0.0023 (J)			
3/28/2018	<0.002						
3/29/2018			<0.002	<0.002	<0.002	<0.002	
3/30/2018		<0.002					<0.002
2/26/2019	<0.002						
2/27/2019		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/5/2020	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
2/7/2020							<0.002
3/17/2020	<0.002						
3/18/2020		<0.002	<0.002	<0.002			<0.002
3/19/2020					<0.002	<0.002	
2/2/2021	<0.002						
2/3/2021			<0.002	<0.002			
2/4/2021		<0.002			<0.002	<0.002	<0.002
3/10/2021	<0.002						
3/11/2021		<0.002			<0.002	<0.002	
3/12/2021			<0.002	<0.002			<0.002
8/24/2021	<0.002						
8/25/2021			<0.002	<0.002	<0.002	<0.002	
8/26/2021		<0.002					<0.002
3/3/2022	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002
3/4/2022				<0.002			

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.002	<0.002					
7/19/2016	<0.002						
7/20/2016		<0.002					
9/14/2016	<0.002	<0.002					
11/10/2016	<0.002	<0.002					
11/11/2016			<0.002				
1/20/2017		<0.002					
1/24/2017	<0.002						
2/6/2017			<0.002				
3/14/2017		<0.002					
3/15/2017	<0.002		<0.002				
4/11/2017			<0.002				
4/25/2017	<0.002	<0.002					
4/26/2017			<0.002				
6/7/2017			<0.002				
7/11/2017			<0.002				
8/9/2017	<0.002	<0.002					
8/10/2017			<0.002				
3/29/2018	<0.002		<0.002				
3/30/2018		<0.002					
2/26/2019		<0.002					
2/27/2019	<0.002						
2/28/2019			<0.002				
2/7/2020	<0.002	<0.002	<0.002				
3/18/2020	<0.002	<0.002					
5/4/2020			<0.002				
2/3/2021			<0.002				
2/4/2021	<0.002	<0.002					
3/11/2021	<0.002	<0.002	<0.002				
8/25/2021	<0.002	<0.002					
8/26/2021			<0.002	<0.002	0.00076 (J)	<0.002	<0.002
1/11/2022					<0.002	0.00078 (J)	0.0012 (J)
1/12/2022				0.00066 (J)			
3/3/2022	<0.002		<0.002		0.00053 (J)		
3/4/2022		<0.002		0.0011 (J)		0.00082 (J)	0.0018 (J)
6/6/2022					<0.002		0.0013 (J)
6/7/2022				<0.002		0.00054 (J)	

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			<0.002	<0.002
7/20/2016			<0.002	<0.002
9/14/2016				<0.002
9/15/2016			<0.002	
11/14/2016			<0.002	
2/6/2017			<0.002	
2/9/2017				<0.002
3/15/2017			<0.002	0.0011 (J)
4/11/2017				<0.002
4/26/2017			<0.002	<0.002
8/10/2017			<0.002	<0.002
3/29/2018			<0.002	<0.002
2/27/2019			<0.002	
2/28/2019				<0.002
2/5/2020				<0.002
2/7/2020			<0.002	
3/19/2020			<0.002	0.00041 (J)
2/3/2021			<0.002	
2/4/2021				0.00041 (J)
3/11/2021			<0.002	
3/12/2021				<0.002
8/26/2021	<0.002	<0.002	<0.002	<0.002
1/11/2022	<0.002	<0.002		
3/3/2022	<0.002		<0.002	0.008
3/4/2022		<0.002		
6/6/2022	<0.002			
6/7/2022		<0.002		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.001	<0.001	<0.001				
5/18/2016				<0.001	<0.001	<0.001	<0.001
7/19/2016	<0.001	0.00061 (J)	<0.001			<0.001	<0.001
7/20/2016				<0.001	<0.001		
9/13/2016	<0.001	0.00074 (J)	<0.001	<0.001	<0.001		<0.001
9/14/2016						0.00069 (J)	
11/9/2016	<0.001	<0.001	<0.001				<0.001
11/10/2016				<0.001	0.00078 (J)		
1/17/2017	<0.001		0.00099 (J)				
1/18/2017				0.00086 (J)	0.0012 (J)		0.0008 (J)
1/19/2017		0.00079 (J)				<0.001	
3/13/2017	<0.001		<0.001				
3/14/2017		0.0014		<0.001	<0.001	<0.001	<0.001
4/24/2017	<0.001		<0.001				
4/25/2017		0.00062 (J)		<0.001	<0.001	<0.001	<0.001
8/8/2017	<0.001	<0.001	<0.001	<0.001			<0.001
8/9/2017					<0.001	<0.001	
3/27/2018	<0.001		<0.001				
3/28/2018		0.00046 (J)		<0.001	<0.001	<0.001	<0.001
6/13/2018	0.001 (J)	0.00057 (J)				<0.001	<0.001
6/14/2018			0.0012 (J)	0.00087 (J)	0.0005 (J)		
9/24/2018			<0.001				
9/27/2018	<0.001						
9/28/2018		<0.001					
10/2/2018							<0.001
10/3/2018				0.00069 (J)	<0.001	0.00085 (J)	
2/25/2019	<0.001		<0.001				
2/26/2019		0.00054 (J)		<0.001	0.00033 (J)	<0.001	<0.001
4/1/2019	<0.001		<0.001				
4/2/2019		<0.001		<0.001	<0.001	<0.001	<0.001
9/16/2019	<0.001					<0.001	0.00036 (J)
9/17/2019		0.0004 (J)	0.00033 (J)		0.00035 (J)		
9/18/2019				<0.001			
2/3/2020	<0.001		<0.001				
2/4/2020				<0.001	0.00033 (J)	<0.001	<0.001
2/5/2020		0.00058 (J)					
3/16/2020	0.00038 (J)		0.00043 (J)				
3/17/2020		<0.001		<0.001	<0.001	<0.001	<0.001
9/21/2020			<0.001	<0.001	<0.001		
9/22/2020	<0.001	<0.001				<0.001	<0.001
2/2/2021	<0.001	<0.001	<0.001	<0.001	<0.001		
2/3/2021						<0.001	<0.001
3/10/2021		<0.001	0.00063 (J)	<0.001	0.00036 (J)	<0.001	
3/11/2021	<0.001						<0.001
8/23/2021			<0.001				
8/24/2021	<0.001				<0.001	<0.001	<0.001
8/25/2021		<0.001		<0.001			
2/28/2022					<0.001		
3/1/2022	<0.001		<0.001	<0.001		<0.001	<0.001
3/3/2022		<0.001					

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001	<0.001					0.00345
5/19/2016			<0.001	<0.001	<0.001		
7/19/2016	<0.001						0.0031
7/20/2016		<0.001	<0.001	<0.001	<0.001		
9/13/2016	<0.001						
9/14/2016		<0.001	<0.001	<0.001	<0.001		0.0024
11/10/2016	<0.001				<0.001		0.0023
11/11/2016		<0.001	<0.001	<0.001			
1/18/2017	0.001 (J)						
1/24/2017							0.0019
1/27/2017			0.00047 (J)	<0.001	0.00066 (J)		
2/6/2017		<0.001					
2/8/2017						<0.001	
2/23/2017						<0.001	
3/14/2017	<0.001						0.0016
3/15/2017		<0.001	<0.001	<0.001	<0.001		
3/17/2017						0.0006 (J)	
4/11/2017						0.0032	
4/25/2017	<0.001						0.0019
4/26/2017		<0.001	<0.001	<0.001	<0.001	0.0019	
5/17/2017						0.0014	
6/7/2017						0.0021	
7/11/2017						0.00095 (J)	
8/8/2017	<0.001						
8/9/2017					<0.001		0.0017
8/10/2017		<0.001	<0.001	0.00048 (J)			
3/28/2018	<0.001						
3/29/2018			<0.001	<0.001	0.00067 (J)	<0.001	
3/30/2018		<0.001					0.0018
6/14/2018	0.0005 (J)	0.0005 (J)	<0.001	0.00052 (J)	0.00093 (J)	<0.001	0.002
10/3/2018	<0.001						0.0024
10/4/2018		0.00089 (J)	0.00054 (J)	<0.001	0.0015	0.0017	
2/26/2019	<0.001						
2/27/2019		<0.001	<0.001	<0.001	0.00036 (J)	<0.001	0.0015
4/2/2019	<0.001						
4/3/2019			<0.001	<0.001	0.00053 (J)	<0.001	
4/4/2019		<0.001					0.0019
9/18/2019	<0.001				0.00039 (J)	<0.001	0.0016
9/19/2019		0.00038 (J)	<0.001	<0.001			
2/5/2020	<0.001	0.00035 (J)	<0.001	<0.001	0.00048 (J)	<0.001	
2/7/2020							0.001
3/17/2020	<0.001						
3/18/2020		<0.001	<0.001	<0.001			0.00088 (J)
3/19/2020					0.00039 (J)	<0.001	
9/22/2020	<0.001						
9/23/2020		<0.001		<0.001			0.00061 (J)
9/24/2020			0.00051 (J)		<0.001	<0.001	
2/2/2021	<0.001						
2/3/2021			<0.001	<0.001			
2/4/2021		<0.001			0.00038 (J)	<0.001	0.00069 (J)
3/10/2021	<0.001						
3/11/2021		0.00031 (J)			0.00035 (J)	<0.001	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.001	<0.001			0.00084 (J)
8/24/2021	<0.001						
8/25/2021			<0.001	<0.001	<0.001	<0.001	
8/26/2021		<0.001					0.0012
3/3/2022	<0.001	<0.001	<0.001		<0.001	<0.001	0.00057 (J)
3/4/2022				0.00037 (J)			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.001	<0.001					
7/19/2016	0.0009 (J)						
7/20/2016		0.00058 (J)					
9/14/2016	0.0014	<0.001					
11/10/2016	0.0021	0.00082 (J)					
11/11/2016			<0.001				
1/20/2017		<0.001					
1/24/2017	0.0015						
2/6/2017			<0.001				
3/14/2017		<0.001					
3/15/2017	0.0014		<0.001				
4/11/2017			<0.001				
4/25/2017	0.0014	0.00095 (J)					
4/26/2017			<0.001				
6/7/2017			<0.001				
7/11/2017			<0.001				
8/9/2017	0.0013	<0.001					
8/10/2017			<0.001				
3/29/2018	0.0014		<0.001				
3/30/2018		<0.001					
6/14/2018	<0.001	0.00076 (J)	<0.001				
10/4/2018	0.0013	0.00088 (J)	<0.001				
2/26/2019		0.0005 (J)					
2/27/2019	0.00046 (J)						
2/28/2019			<0.001				
4/2/2019			<0.001				
4/4/2019	<0.001	<0.001					
9/18/2019	<0.001	<0.001	<0.001				
2/7/2020	<0.001	0.00075 (J)	<0.001				
3/18/2020	<0.001	0.00054 (J)					
5/4/2020			<0.001				
9/23/2020	<0.001	0.00067 (J)	<0.001				
2/3/2021			<0.001				
2/4/2021	<0.001	0.00035 (J)					
3/11/2021	<0.001	<0.001	<0.001				
8/25/2021	<0.001	<0.001					
8/26/2021			<0.001	0.00031 (J)	0.00057 (J)	<0.001	<0.001
1/11/2022					0.00036 (J)	<0.001	<0.001
1/12/2022				0.00052 (J)			
3/3/2022	<0.001		<0.001		0.00053 (J)		
3/4/2022		<0.001		0.00078 (J)		0.00046 (J)	<0.001
6/6/2022					0.00083 (J)		<0.001
6/7/2022				0.00033 (J)		0.00029 (J)	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			<0.001	<0.001
7/20/2016			0.00055 (J)	0.00078 (J)
9/14/2016				<0.001
9/15/2016			<0.001	
11/14/2016			<0.001	
2/6/2017			<0.001	
2/9/2017				0.0017
3/15/2017			<0.001	0.00047 (J)
4/11/2017				<0.001
4/26/2017			<0.001	<0.001
8/10/2017			<0.001	<0.001
3/29/2018			<0.001	<0.001
6/14/2018			<0.001	<0.001
10/4/2018			0.0015	<0.001
2/27/2019			0.00047 (J)	
2/28/2019				<0.001
4/3/2019			<0.001	<0.001
9/19/2019			0.00032 (J)	<0.001
2/5/2020				<0.001
2/7/2020			0.0011	
3/19/2020			0.00071 (J)	<0.001
9/22/2020			0.0011	
9/23/2020				<0.001
2/3/2021			0.0013	
2/4/2021				<0.001
3/11/2021			0.0009 (J)	
3/12/2021				<0.001
8/26/2021	0.0033	<0.001	0.0013	<0.001
1/11/2022	0.0017	<0.001		
3/3/2022	0.0029		0.0014	<0.001
3/4/2022		<0.001		
6/6/2022	0.00054 (J)			
6/7/2022		<0.001		

Time Series

Constituent: Barium (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	0.041	0.0221	0.0308				
5/18/2016				0.0174	0.00723	0.0198	0.00518
7/19/2016	0.038	0.018	0.022			0.015	0.0049
7/20/2016				0.012	0.0051		
9/13/2016	0.029	0.021	0.021	0.013	0.0058		0.006
9/14/2016						0.062	
11/9/2016	0.041	0.011	0.025				0.0066
11/10/2016				0.013	0.0063		
1/17/2017	0.044		0.017				
1/18/2017				0.014	0.0059		0.007
1/19/2017		0.012				0.034	
3/13/2017	0.042		0.019				
3/14/2017		0.017		0.014	0.0058	0.018	0.014
4/24/2017	0.039		0.019				
4/25/2017		0.017		0.015	0.0056	0.018	0.0062
8/8/2017	0.044	0.021	0.022	0.015			0.0065
8/9/2017					0.0056	0.016	
3/27/2018	0.041		0.021				
3/28/2018		0.019		0.014	0.0052	0.015	0.0059
6/13/2018	0.045	0.013				0.016	0.0067
6/14/2018			0.02	0.013	0.0057		
9/24/2018			0.02				
9/27/2018	0.047						
9/28/2018		0.014					
10/2/2018							0.0066
10/3/2018				0.014	0.0054	0.016	
2/25/2019	0.049		0.027				
2/26/2019		0.015		0.014	0.012	0.02	0.011
4/1/2019	0.044		0.027				
4/2/2019		0.014		0.014	0.0056	0.016	0.0069
9/16/2019	0.05					0.027	0.0073 (J)
9/17/2019		0.013	0.024		0.0063 (J)		
9/18/2019				0.013			
2/3/2020	0.053		0.045				
2/4/2020				0.019	0.0087 (J)	0.022	0.013
2/5/2020		0.02					
3/16/2020	0.046		0.026				
3/17/2020		0.013		0.013	0.0059 (J)	0.017	0.0081 (J)
9/21/2020			0.024	0.015	0.006 (J)		
9/22/2020	0.048	0.015				0.032	0.0079 (J)
2/2/2021	0.05	0.017	0.025	0.015	0.006 (J)		
2/3/2021						0.015	0.0079 (J)
3/10/2021		0.016	0.024	0.014	0.0057 (J)	0.016	
3/11/2021	0.046						0.0077 (J)
8/23/2021			0.023				
8/24/2021	0.049				0.0055 (J)	0.028	0.0074 (J)
8/25/2021		0.015		0.014			
2/28/2022					0.0053 (J)		
3/1/2022	0.047		0.02	0.014		0.017	0.0071 (J)
3/3/2022		0.013					

Time Series

Constituent: Barium (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.0114	0.0391					0.0206
5/19/2016			0.031	0.0214	0.055		
7/19/2016	0.012						0.019
7/20/2016		0.028	0.029	0.019	0.039		
9/13/2016	0.011						
9/14/2016		0.035	0.031	0.02	0.04		0.02
11/10/2016	0.016				0.04		0.02
11/11/2016		0.042	0.034	0.022			
1/18/2017	0.013						
1/24/2017							0.017
1/27/2017			0.042	0.023	0.042		
2/6/2017		0.041					
2/8/2017						0.037	
2/23/2017						0.051	
3/14/2017	0.01						0.018
3/15/2017		0.04	0.032	0.024	0.058		
3/17/2017						0.046	
4/11/2017						0.055	
4/25/2017	0.012						0.018
4/26/2017		0.039	0.03	0.004	0.054	0.042	
5/17/2017						0.052	
6/7/2017						0.06	
7/11/2017						0.038	
8/8/2017	0.012						
8/9/2017					0.055		0.02
8/10/2017		0.038	0.03	0.017			
3/28/2018	0.01						
3/29/2018			0.028	0.017	0.061	0.028	
3/30/2018		0.042					0.021
6/14/2018	0.012	0.038	0.03	0.015	0.055	0.023	0.022
10/3/2018	0.011						0.024
10/4/2018		0.04	0.035	0.017	0.046	0.036	
2/26/2019	0.013						
2/27/2019		0.04	0.04	0.016	0.054	0.028	0.023
4/2/2019	0.011						
4/3/2019			0.035	0.015	0.056	0.026	
4/4/2019		0.04					0.022
9/18/2019	0.012				0.062	0.025	0.026
9/19/2019		0.038	0.033	0.016			
2/5/2020	0.012	0.061	0.047	0.016	0.052	0.077	
2/7/2020							0.022
3/17/2020	0.012						
3/18/2020		0.035	0.038	0.016			0.021
3/19/2020					0.072	0.031	
9/22/2020	0.013						
9/23/2020		0.035		0.016			0.027
9/24/2020			0.061		0.038	0.034	
2/2/2021	0.012						
2/3/2021			0.039	0.015			
2/4/2021		0.035			0.047	0.029	0.028
3/10/2021	0.011						
3/11/2021		0.033			0.049	0.032	

Time Series

Constituent: Barium (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			0.045	0.017			0.028
8/24/2021	0.012						
8/25/2021			0.04	0.016	0.046	0.03	
8/26/2021		0.032					0.029
3/3/2022	0.012	0.033	0.04		0.045	0.029	0.029
3/4/2022				0.016			

Time Series

Constituent: Barium (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.0715	0.0219					
7/19/2016	0.069						
7/20/2016		0.019					
9/14/2016	0.066	0.017					
11/10/2016	0.069	0.02					
11/11/2016			0.0022 (J)				
1/20/2017		0.018					
1/24/2017	0.068						
2/6/2017			0.0018 (J)				
3/14/2017		0.019					
3/15/2017	0.065		0.0015 (J)				
4/11/2017			0.0014 (J)				
4/25/2017	0.057	0.023					
4/26/2017			0.0014 (J)				
6/7/2017			0.0014 (J)				
7/11/2017			0.0013 (J)				
8/9/2017	0.069	0.017					
8/10/2017			0.0012 (J)				
3/29/2018	0.05		0.00097 (J)				
3/30/2018		0.015					
6/14/2018	0.046	0.013	0.0011 (J)				
10/4/2018	0.046	0.013	0.0012 (J)				
2/26/2019		0.012					
2/27/2019	0.028						
2/28/2019			<0.01				
4/2/2019			0.0013 (J)				
4/4/2019	0.027	0.011					
9/18/2019	0.032	0.011	<0.01				
2/7/2020	0.034	0.011	0.0065 (J)				
3/18/2020	0.034	0.012					
5/4/2020			<0.01				
9/23/2020	0.037	0.012	<0.01				
2/3/2021			<0.01				
2/4/2021	0.039	0.012					
3/11/2021	0.037	0.011	<0.01				
8/25/2021	0.035	0.011					
8/26/2021			<0.01	<0.01	0.0086 (J)	0.031	0.0078 (J)
1/11/2022					0.0076 (J)	0.04	0.0072 (J)
1/12/2022				<0.01			
3/3/2022	0.041		<0.01		0.0068 (J)		
3/4/2022		0.011		<0.01		0.038	0.0081 (J)
6/6/2022					0.0079 (J)		0.0097 (J)
6/7/2022				<0.01		0.025	

Time Series

Constituent: Barium (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			0.0026	<0.01
7/20/2016			0.0017 (J)	0.0014 (J)
9/14/2016				0.00092 (J)
9/15/2016			0.0039	
11/14/2016			0.00085 (J)	
2/6/2017			0.0011 (J)	
2/9/2017				0.0015 (J)
3/15/2017			0.0013 (J)	0.00054 (J)
4/11/2017				0.0007 (J)
4/26/2017			0.00098 (J)	<0.01
8/10/2017			0.0025	0.00053 (J)
3/29/2018			0.00085 (J)	<0.01
6/14/2018			0.0028	0.00088 (J)
10/4/2018			0.0017 (J)	0.00076 (J)
2/27/2019			<0.01	
2/28/2019				0.0023 (J)
4/3/2019			0.001 (J)	<0.01
9/19/2019			<0.01	0.0018 (J)
2/5/2020				0.0022 (J)
2/7/2020			<0.01	
3/19/2020			<0.01	0.0021 (J)
9/22/2020			<0.01	
9/23/2020				<0.01
2/3/2021			<0.01	
2/4/2021				0.0016 (J)
3/11/2021			<0.01	
3/12/2021				<0.01
8/26/2021	0.042	0.41	<0.01	<0.01
1/11/2022	0.029	0.38		
3/3/2022	0.028		<0.01	<0.01
3/4/2022		0.38		
6/6/2022	0.032			
6/7/2022		0.34		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.0025	<0.0025	<0.0025				
5/18/2016				<0.0025	<0.0025	<0.0025	<0.0025
7/19/2016	<0.0025	<0.0025	<0.0025			<0.0025	<0.0025
7/20/2016				<0.0025	<0.0025		
9/13/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
9/14/2016						<0.0025	
11/9/2016	<0.0025	<0.0025	<0.0025				<0.0025
11/10/2016				<0.0025	<0.0025		
1/17/2017	<0.0025		<0.0025				
1/18/2017				<0.0025	<0.0025		<0.0025
1/19/2017		<0.0025				<0.0025	
3/13/2017	<0.0025		<0.0025				
3/14/2017		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
4/24/2017	<0.0025		<0.0025				
4/25/2017		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
8/8/2017	<0.0025	<0.0025	<0.0025	<0.0025			<0.0025
8/9/2017					<0.0025	<0.0025	
3/27/2018	<0.0025		<0.0025				
3/28/2018		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
6/13/2018	<0.0025	<0.0025				<0.0025	<0.0025
6/14/2018			<0.0025	<0.0025	<0.0025		
9/24/2018			<0.0025				
9/27/2018	<0.0025						
9/28/2018		<0.0025					
10/2/2018							<0.0025
10/3/2018				<0.0025	<0.0025	<0.0025	
2/25/2019	<0.0025		<0.0025				
2/26/2019		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
4/1/2019	<0.0025		<0.0025				
4/2/2019		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
9/16/2019	0.00032 (J)					0.00036 (J)	0.0011
9/17/2019		<0.0025	0.00019 (J)		<0.0025		
9/18/2019				<0.0025			
2/3/2020	<0.0025		<0.0025				
2/4/2020				<0.0025	<0.0025	<0.0025	<0.0025
2/5/2020		<0.0025					
3/16/2020	0.00071 (J)		0.00076 (J)				
3/17/2020		<0.0025		0.00021 (J)	<0.0025	<0.0025	<0.0025
9/21/2020			<0.0025	<0.0025	<0.0025		
9/22/2020	<0.0025	<0.0025				<0.0025	<0.0025
2/2/2021	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
2/3/2021						<0.0025	<0.0025
3/10/2021		<0.0025	0.00065 (J)	0.00019 (J)	<0.0025	<0.0025	
3/11/2021	0.00029 (J)						<0.0025
8/23/2021			<0.0025				
8/24/2021	<0.0025				<0.0025	<0.0025	<0.0025
8/25/2021		<0.0025		<0.0025			
2/28/2022					<0.0025		
3/1/2022	<0.0025		<0.0025	<0.0025		<0.0025	<0.0025
3/3/2022		<0.0025					

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0025	<0.0025					<0.0025
5/19/2016			<0.0025	<0.0025	<0.0025		
7/19/2016	<0.0025						<0.0025
7/20/2016		<0.0025	<0.0025	<0.0025	<0.0025		
9/13/2016	<0.0025						
9/14/2016		<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
11/10/2016	<0.0025				<0.0025		<0.0025
11/11/2016		<0.0025	<0.0025	<0.0025			
1/18/2017	<0.0025						
1/24/2017							<0.0025
1/27/2017			<0.0025	<0.0025	<0.0025		
2/6/2017		<0.0025					
2/8/2017						<0.0025	
2/23/2017						<0.0025	
3/14/2017	<0.0025						<0.0025
3/15/2017		<0.0025	<0.0025	<0.0025	<0.0025		
3/17/2017						<0.0025	
4/11/2017						<0.0025	
4/25/2017	<0.0025						<0.0025
4/26/2017		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
5/17/2017						<0.0025	
6/7/2017						<0.0025	
7/11/2017						<0.0025	
8/8/2017	<0.0025						
8/9/2017					<0.0025		<0.0025
8/10/2017		<0.0025	<0.0025	<0.0025			
3/28/2018	<0.0025						
3/29/2018			<0.0025	<0.0025	<0.0025	<0.0025	
3/30/2018		<0.0025					<0.0025
6/14/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
10/3/2018	<0.0025						<0.0025
10/4/2018		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/26/2019	<0.0025						
2/27/2019		<0.0025	<0.0025	<0.0025	<0.0025	0.00017 (J)	<0.0025
4/2/2019	<0.0025						
4/3/2019			<0.0025	<0.0025	<0.0025	<0.0025	
4/4/2019		<0.0025					<0.0025
9/18/2019	<0.0025				<0.0025	0.00032 (J)	<0.0025
9/19/2019		<0.0025	<0.0025	<0.0025			
2/5/2020	0.00041 (J)	<0.0025	<0.0025	<0.0025	<0.0025	0.00024 (J)	
2/7/2020							<0.0025
3/17/2020	<0.0025						
3/18/2020		<0.0025	<0.0025	<0.0025			<0.0025
3/19/2020					<0.0025	0.00025 (J)	
9/22/2020	<0.0025						
9/23/2020		<0.0025		<0.0025			<0.0025
9/24/2020			<0.0025		<0.0025	0.00024 (J)	
2/2/2021	<0.0025						
2/3/2021			<0.0025	<0.0025			
2/4/2021		<0.0025			<0.0025	0.00026 (J)	<0.0025
3/10/2021	<0.0025						
3/11/2021		<0.0025			<0.0025	<0.0025	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.0025	<0.0025			<0.0025
8/24/2021	<0.0025						
8/25/2021			<0.0025	<0.0025	<0.0025	<0.0025	
8/26/2021		<0.0025					<0.0025
3/3/2022	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
3/4/2022				<0.0025			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.0025	<0.0025					
7/19/2016	<0.0025						
7/20/2016		<0.0025					
9/14/2016	<0.0025	<0.0025					
11/10/2016	<0.0025	<0.0025					
11/11/2016			<0.0025				
1/20/2017		<0.0025					
1/24/2017	<0.0025						
2/6/2017			<0.0025				
3/14/2017		<0.0025					
3/15/2017	<0.0025		<0.0025				
4/11/2017			<0.0025				
4/25/2017	<0.0025	<0.0025					
4/26/2017			<0.0025				
6/7/2017			<0.0025				
7/11/2017			<0.0025				
8/9/2017	<0.0025	<0.0025					
8/10/2017			<0.0025				
3/29/2018	<0.0025		<0.0025				
3/30/2018		<0.0025					
6/14/2018	<0.0025	<0.0025	<0.0025				
10/4/2018	<0.0025	<0.0025	<0.0025				
2/26/2019		<0.0025					
2/27/2019	0.00022 (J)						
2/28/2019			<0.0025				
4/2/2019			<0.0025				
4/4/2019	<0.0025	<0.0025					
9/18/2019	<0.0025	<0.0025	<0.0025				
2/7/2020	<0.0025	<0.0025	<0.0025				
3/18/2020	<0.0025	<0.0025					
5/4/2020			<0.0025				
9/23/2020	<0.0025	<0.0025	<0.0025				
2/3/2021			<0.0025				
2/4/2021	<0.0025	<0.0025					
3/11/2021	<0.0025	<0.0025	<0.0025				
8/25/2021	<0.0025	<0.0025					
8/26/2021			<0.0025	0.0081	<0.0025	0.00053 (J)	0.00089 (J)
1/11/2022					<0.0025	0.00057 (J)	0.0012 (J)
1/12/2022				0.012			
3/3/2022	<0.0025		<0.0025		<0.0025		
3/4/2022		<0.0025		0.01		0.00066 (J)	0.00097 (J)
6/6/2022					<0.0025		0.0011 (J)
6/7/2022				0.0089		0.00055 (J)	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			0.00102 (J)	<0.0025
7/20/2016			0.0014 (J)	<0.0025
9/14/2016				<0.0025
9/15/2016			0.00093 (J)	
11/14/2016			0.0014 (J)	
2/6/2017			0.0017 (J)	
2/9/2017				0.00041 (J)
3/15/2017			0.0016 (J)	<0.0025
4/11/2017				<0.0025
4/26/2017			0.0017 (J)	<0.0025
8/10/2017			0.0017 (J)	0.00034 (J)
3/29/2018			0.0018 (J)	<0.0025
6/14/2018			0.0015 (J)	<0.0025
10/4/2018			0.0019 (J)	0.00036 (J)
2/27/2019			0.0021 (J)	
2/28/2019				0.00031 (J)
4/3/2019			0.0019 (J)	<0.0025
9/19/2019			0.0019	0.00041 (J)
2/5/2020				0.0004 (J)
2/7/2020			0.0023	
3/19/2020			0.0028	0.00056 (J)
9/22/2020			0.0025	
9/23/2020				0.00034 (J)
2/3/2021			0.0025	
2/4/2021				0.00039 (J)
3/11/2021			0.0022 (J)	
3/12/2021				0.00034 (J)
8/26/2021	0.014	0.00028 (J)	0.002 (J)	0.00038 (J)
1/11/2022	0.014	0.0002 (J)		
3/3/2022	0.01		0.0027	0.00036 (J)
3/4/2022		<0.0025		
6/6/2022	0.0062			
6/7/2022		0.0003 (J)		

Time Series

Constituent: Boron, total (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.08	<0.08	<0.08				
5/18/2016				<0.08	<0.08	<0.08	<0.08
7/19/2016	<0.08	<0.08	<0.08			<0.08	<0.08
7/20/2016				<0.08	<0.08		
9/13/2016	<0.08	<0.08	<0.08	<0.08	<0.08		<0.08
9/14/2016						<0.08	
11/9/2016	<0.08	<0.08	<0.08				<0.08
11/10/2016				<0.08	<0.08		
1/17/2017	<0.08		<0.08				
1/18/2017				<0.08	<0.08		<0.08
1/19/2017		<0.08				<0.08	
3/13/2017	<0.08		<0.08				
3/14/2017		<0.08		<0.08	<0.08	<0.08	<0.08
4/24/2017	<0.08		<0.08				
4/25/2017		<0.08		<0.08	<0.08	<0.08	<0.08
8/8/2017	<0.08	<0.08	<0.08	<0.08			<0.08
8/9/2017					<0.08	<0.08	
10/10/2017	<0.08		<0.08				
10/11/2017		<0.08		<0.08	<0.08	<0.08	<0.08
6/13/2018	<0.08	<0.08				<0.08	<0.08
6/14/2018			<0.08	<0.08	<0.08		
9/24/2018			<0.08				
9/27/2018	<0.08						
9/28/2018		<0.08					
10/2/2018							<0.08
10/3/2018				<0.08	<0.08	<0.08	
4/1/2019	<0.08		<0.08				
4/2/2019		<0.08		<0.08	<0.08	<0.08	<0.08
9/16/2019	<0.08					<0.08	<0.08
9/17/2019		<0.08	<0.08		<0.08		
9/18/2019				<0.08			
3/16/2020	<0.08		0.048 (J)				
3/17/2020		<0.08		<0.08	<0.08	<0.08	<0.08
9/21/2020			<0.08	<0.08	<0.08		
9/22/2020	<0.08	<0.08				<0.08	<0.08
3/10/2021		<0.08	0.039 (J)	<0.08	<0.08	<0.08	
3/11/2021	<0.08						<0.08
8/23/2021			<0.08				
8/24/2021	<0.08				<0.08	<0.08	<0.08
8/25/2021		0.1		<0.08			
2/28/2022					<0.08		
3/1/2022	<0.08		<0.08	<0.08		<0.08	<0.08
3/3/2022		0.1					

Time Series

Constituent: Boron, total (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.08	<0.08					<0.08
5/19/2016			<0.08	<0.08	0.0252 (J)		
7/19/2016	<0.08						<0.08
7/20/2016		<0.08	<0.08	<0.08	<0.08		
9/13/2016	<0.08						
9/14/2016		<0.08	<0.08	<0.08	<0.08		<0.08
11/10/2016	<0.08				<0.08		<0.08
11/11/2016		<0.08	<0.08	<0.08			
1/18/2017	<0.08						
1/24/2017							<0.08
1/27/2017			0.021 (J)	0.047 (J)	0.033 (J)		
2/6/2017		<0.08					
2/8/2017						<0.08	
2/23/2017						<0.08	
3/14/2017	<0.08						<0.08
3/15/2017		0.032 (J)	0.058	0.024 (J)	<0.08		
3/17/2017						<0.08	
4/11/2017						<0.08	
4/25/2017	<0.08						<0.08
4/26/2017		<0.08	<0.08	<0.08	<0.08	<0.08	
5/17/2017						<0.08	
6/7/2017						<0.08	
7/11/2017						<0.08	
8/8/2017	<0.08						
8/9/2017					<0.08		<0.08
8/10/2017		<0.08	<0.08	<0.08			
10/11/2017	<0.08					<0.08	<0.08
10/12/2017		<0.08	<0.08	<0.08	<0.08		
6/14/2018	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
10/3/2018	<0.08						<0.08
10/4/2018		<0.08	<0.08	<0.08	<0.08	<0.08	
4/2/2019	<0.08						
4/3/2019			<0.08	<0.08	<0.08	<0.08	
4/4/2019		0.024 (J)					<0.08
9/18/2019	<0.08				<0.08	<0.08	<0.08
9/19/2019		<0.08	<0.08	<0.08			
3/17/2020	<0.08						
3/18/2020		0.049 (J)	<0.08	0.039 (J)			0.071 (J)
3/19/2020					0.053 (J)	0.039 (J)	
9/22/2020	<0.08						
9/23/2020		<0.08		<0.08			<0.08
9/24/2020			<0.08		<0.08	<0.08	
3/10/2021	<0.08						
3/11/2021		<0.08			<0.08	<0.08	
3/12/2021			<0.08	<0.08			<0.08
8/24/2021	<0.08						
8/25/2021			<0.08	<0.08	0.063 (J)	0.043 (J)	
8/26/2021		<0.08					<0.08
3/3/2022	<0.08	<0.08	<0.08		<0.08	<0.08	<0.08
3/4/2022				<0.08			

Time Series

Constituent: Boron, total (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	4.48	<0.08					
7/19/2016	4.7						
7/20/2016		<0.08					
9/14/2016	5.8	<0.08					
11/10/2016	6.7	<0.08					
11/11/2016			<0.08				
1/20/2017		<0.08					
1/24/2017	6.3						
2/6/2017			<0.08				
3/14/2017		<0.08					
3/15/2017	5.9		0.034 (J)				
4/11/2017			<0.08				
4/25/2017	6.2	<0.08					
4/26/2017			<0.08				
6/7/2017			<0.08				
7/11/2017			<0.08				
8/9/2017	6.3	<0.08					
8/10/2017			<0.08				
10/11/2017	6.8	<0.08					
10/12/2017			<0.08				
6/14/2018	5.4	<0.08	<0.08				
10/4/2018	5.5	<0.08	<0.08				
4/2/2019			<0.08				
4/4/2019	3.2	0.049 (J)					
9/18/2019	2.1	<0.08	<0.08				
3/18/2020	2	0.049 (J)					
5/4/2020			<0.08				
9/23/2020	1.5	<0.08	<0.08				
3/8/2021				1.3			
3/9/2021					0.19	0.33	0.073 (J)
3/11/2021	1.1	<0.08	<0.08				
4/7/2021					0.13		<0.08
4/8/2021				0.98		0.21	
8/25/2021	0.89	<0.08					
8/26/2021			<0.08	2.1	0.087	0.36	0.052 (J)
1/11/2022					0.12	0.39	0.048 (J)
1/12/2022				4.9			
3/3/2022	0.79		<0.08		0.12		
3/4/2022		<0.08		4.3		0.41	<0.08
6/6/2022					0.13		<0.08
6/7/2022				2.8		0.39	

Time Series

Constituent: Boron, total (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			1.42	0.314
7/20/2016			1.4	0.25
9/14/2016				0.3
9/15/2016			1.2	
11/14/2016			1.3	
2/6/2017			1.8	
2/9/2017				0.61
3/15/2017			1.7	0.42
4/11/2017				0.37
4/26/2017			2	0.38
8/10/2017			1.8	0.29
10/12/2017			1.8	0.36
6/14/2018			1.7	0.39
10/4/2018			1.9	0.37
4/3/2019			1.7	0.35
9/19/2019			1.7	0.39
3/19/2020			2.2	0.55
9/22/2020			2.5	
9/23/2020				0.68
3/8/2021		0.48		
3/9/2021	1.8			
3/11/2021			2.4	
3/12/2021				0.64
4/7/2021	1.9			
4/8/2021		0.43		
8/26/2021	2.1	0.7	2.4	0.56
1/11/2022	1.7	0.87		
3/3/2022	1.6		2.7	0.62
3/4/2022		0.72		
6/6/2022	0.64			
6/7/2022		0.78		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.0025	<0.0025	<0.0025				
5/18/2016				<0.0025	<0.0025	<0.0025	<0.0025
7/19/2016	<0.0025	<0.0025	<0.0025			<0.0025	<0.0025
7/20/2016				<0.0025	<0.0025		
9/13/2016	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
9/14/2016						<0.0025	
11/9/2016	<0.0025	<0.0025	<0.0025				<0.0025
11/10/2016				<0.0025	<0.0025		
1/17/2017	<0.0025		<0.0025				
1/18/2017				<0.0025	<0.0025		<0.0025
1/19/2017		<0.0025				<0.0025	
3/13/2017	<0.0025		<0.0025				
3/14/2017		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
4/24/2017	<0.0025		<0.0025				
4/25/2017		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
8/8/2017	<0.0025	<0.0025	<0.0025	<0.0025			<0.0025
8/9/2017					<0.0025	<0.0025	
3/27/2018	<0.0025		<0.0025				
3/28/2018		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
6/13/2018	<0.0025	<0.0025				<0.0025	<0.0025
6/14/2018			<0.0025	<0.0025	<0.0025		
9/24/2018			<0.0025				
9/27/2018	<0.0025						
9/28/2018		<0.0025					
10/2/2018							<0.0025
10/3/2018				<0.0025	<0.0025	<0.0025	
2/25/2019	<0.0025		<0.0025				
2/26/2019		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
4/1/2019	<0.0025		<0.0025				
4/2/2019		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
9/16/2019	<0.0025					<0.0025	<0.0025
9/17/2019		<0.0025	<0.0025		<0.0025		
9/18/2019				<0.0025			
2/3/2020	<0.0025		<0.0025				
2/4/2020				<0.0025	<0.0025	<0.0025	<0.0025
2/5/2020		<0.0025					
3/16/2020	<0.0025		<0.0025				
3/17/2020		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
9/21/2020			<0.0025	<0.0025	<0.0025		
9/22/2020	<0.0025	<0.0025				<0.0025	<0.0025
2/2/2021	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
2/3/2021						<0.0025	<0.0025
2/28/2022					<0.0025		
3/1/2022	<0.0025		<0.0025	<0.0025		<0.0025	<0.0025
3/3/2022		<0.0025					

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0025	<0.0025					<0.0025
5/19/2016			<0.0025	<0.0025	<0.0025		
7/19/2016	<0.0025						<0.0025
7/20/2016		<0.0025	<0.0025	<0.0025	<0.0025		
9/13/2016	<0.0025						
9/14/2016		<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
11/10/2016	<0.0025				<0.0025		<0.0025
11/11/2016		<0.0025	<0.0025	<0.0025			
1/18/2017	<0.0025						
1/24/2017							<0.0025
1/27/2017			<0.0025	<0.0025	<0.0025		
2/6/2017		<0.0025					
2/8/2017						<0.0025	
2/23/2017						<0.0025	
3/14/2017	<0.0025						<0.0025
3/15/2017		<0.0025	<0.0025	<0.0025	<0.0025		
3/17/2017						<0.0025	
4/11/2017						<0.0025	
4/25/2017	<0.0025						<0.0025
4/26/2017		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
5/17/2017						<0.0025	
6/7/2017						<0.0025	
7/11/2017						<0.0025	
8/8/2017	<0.0025						
8/9/2017					<0.0025		<0.0025
8/10/2017		<0.0025	<0.0025	<0.0025			
3/28/2018	<0.0025						
3/29/2018			<0.0025	<0.0025	<0.0025	<0.0025	
3/30/2018		<0.0025					<0.0025
6/14/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
10/3/2018	<0.0025						<0.0025
10/4/2018		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/26/2019	<0.0025						
2/27/2019		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
4/2/2019	<0.0025						
4/3/2019			<0.0025	<0.0025	<0.0025	<0.0025	
4/4/2019		<0.0025					<0.0025
9/18/2019	<0.0025				<0.0025	<0.0025	<0.0025
9/19/2019		0.00021 (J)	<0.0025	<0.0025			
2/5/2020	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/7/2020							<0.0025
3/17/2020	<0.0025						
3/18/2020		<0.0025	<0.0025	<0.0025			<0.0025
3/19/2020					<0.0025	<0.0025	
9/22/2020	<0.0025						
9/23/2020		<0.0025		<0.0025			<0.0025
9/24/2020			<0.0025		<0.0025	<0.0025	
2/2/2021	<0.0025						
2/3/2021			<0.0025	<0.0025			
2/4/2021		<0.0025			<0.0025	<0.0025	<0.0025
3/3/2022	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025
3/4/2022				<0.0025			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.000362 (J)	<0.0025					
7/19/2016	<0.0025						
7/20/2016		<0.0025					
9/14/2016	0.00037 (J)	<0.0025					
11/10/2016	<0.0025	<0.0025					
11/11/2016			<0.0025				
1/20/2017		<0.0025					
1/24/2017	0.00055 (J)						
2/6/2017			<0.0025				
3/14/2017		<0.0025					
3/15/2017	0.00067 (J)		<0.0025				
4/11/2017			<0.0025				
4/25/2017	0.00058 (J)	<0.0025					
4/26/2017			<0.0025				
6/7/2017			<0.0025				
7/11/2017			<0.0025				
8/9/2017	0.00054 (J)	<0.0025					
8/10/2017			<0.0025				
3/29/2018	0.00082 (J)		<0.0025				
3/30/2018		<0.0025					
6/14/2018	0.0007 (J)	<0.0025	<0.0025				
10/4/2018	0.00065 (J)	<0.0025	<0.0025				
2/26/2019		<0.0025					
2/27/2019	0.00055 (J)						
2/28/2019			<0.0025				
4/2/2019			<0.0025				
4/4/2019	0.00047 (J)	<0.0025					
9/18/2019	0.00017 (J)	<0.0025	<0.0025				
2/7/2020	<0.0025	<0.0025	<0.0025				
3/18/2020	0.00022 (J)	<0.0025					
5/4/2020			<0.0025				
9/23/2020	<0.0025	<0.0025	<0.0025				
2/3/2021			<0.0025				
2/4/2021	<0.0025	<0.0025					
8/26/2021				<0.0025	<0.0025	<0.0025	<0.0025
1/11/2022					<0.0025	<0.0025	<0.0025
1/12/2022				0.00026 (J)			
3/3/2022	<0.0025		<0.0025		<0.0025		
3/4/2022		<0.0025		<0.0025		0.00025 (J)	<0.0025
6/6/2022					<0.0025		<0.0025
6/7/2022				<0.0025		<0.0025	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			<0.0025	<0.0025
7/20/2016			<0.0025	<0.0025
9/14/2016				<0.0025
9/15/2016			<0.0025	
11/14/2016			<0.0025	
2/6/2017			<0.0025	
2/9/2017				<0.0025
3/15/2017			<0.0025	<0.0025
4/11/2017				<0.0025
4/26/2017			<0.0025	<0.0025
8/10/2017			<0.0025	<0.0025
3/29/2018			<0.0025	<0.0025
6/14/2018			<0.0025	<0.0025
10/4/2018			<0.0025	<0.0025
2/27/2019			<0.0025	
2/28/2019				<0.0025
4/3/2019			<0.0025	<0.0025
9/19/2019			<0.0025	<0.0025
2/5/2020				<0.0025
2/7/2020			<0.0025	
3/19/2020			<0.0025	<0.0025
9/22/2020			<0.0025	
9/23/2020				<0.0025
2/3/2021			<0.0025	
2/4/2021				<0.0025
8/26/2021	0.00061 (J)	<0.0025		
1/11/2022	0.0004 (J)	<0.0025		
3/3/2022	0.0003 (J)		<0.0025	<0.0025
3/4/2022		<0.0025		
6/6/2022	0.0003 (J)			
6/7/2022		<0.0025		

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	0.927	23.7	12.2				
5/18/2016				2.1	17.9	1.7	27
7/19/2016	1	23	13			1.5	23
7/20/2016				1.7	15		
9/13/2016	0.44	23	13	1.3	16		25
9/14/2016						52	
11/9/2016	1.1	6.7	19				25
11/10/2016				1.6	15		
1/17/2017	1.4		28				
1/18/2017				1.7	17		26
1/19/2017		8.5				13	
3/13/2017	1.1		14				
3/14/2017		13		1.8	17	1.6	20
4/24/2017	1.1		12				
4/25/2017		23		2	17	1.5	28
8/8/2017	1.1	24	18	2			26
8/9/2017					15	1.3	
10/10/2017	1.2		21				
10/11/2017		23		2.1	17	1.5	29
6/13/2018	1.1	11				1.2	25
6/14/2018			12	2	15		
9/24/2018			11				
9/27/2018	1.2						
9/28/2018		11					
10/2/2018							26
10/3/2018				1.8	16	1.4	
4/1/2019	1		12				
4/2/2019		20		1.8	15	1.1	25
9/16/2019	1.3					36	25
9/17/2019		10	13		16		
9/18/2019				1.6			
3/16/2020	1.1		10				
3/17/2020		10		1.7	15	1.4	26
9/21/2020			13	1.8	16		
9/22/2020	1.2	19				58	25
3/10/2021		7.7	11	1.9	16	1.3	
3/11/2021	1.3						26
8/23/2021			13				
8/24/2021	1.2				15	47	26
8/25/2021		16		1.7			
2/28/2022					14		
3/1/2022	1.1		13	1.6		2.1	22
3/3/2022		6.1					

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	1.36	7.17					32.5
5/19/2016			1.95	15.8	11.4		
7/19/2016	0.88						30
7/20/2016		7	1.5	14	7.1		
9/13/2016	0.93						
9/14/2016		7.7	1.8	16	7.4		37
11/10/2016	6.1				6.4		29
11/11/2016		8.2	1.7	15			
1/18/2017	10						
1/24/2017							28
1/27/2017			3.5	16	6.2		
2/6/2017		9.1					
2/8/2017						3.2	
2/23/2017						4.1	
3/14/2017	1.3						29
3/15/2017		9	3.8	16	6.7		
3/17/2017						2.4	
4/11/2017						4.1	
4/25/2017	1.9						32
4/26/2017		8.1	4	3	6.5	2.5	
5/17/2017						5.2	
6/7/2017						5.2	
7/11/2017						2.3	
8/8/2017	4.8						
8/9/2017					7		30
8/10/2017		8.1	3.5	15			
10/11/2017	0.93					3.8	31
10/12/2017		8.6	2.7	16	7		
6/14/2018	0.94	7.7	2.2	13	5.5	1.1	29
10/3/2018	1.2						31
10/4/2018		8.5	2	15	5.9	2	
4/2/2019	1.1						
4/3/2019			1.7	14	4.7	0.84	
4/4/2019		7.9					30
9/18/2019	1.5				4.9	0.85	31
9/19/2019		7.5	1.4	14			
3/17/2020	0.82						
3/18/2020		7.5	1.6	14			30
3/19/2020					5	0.89	
9/22/2020	0.89						
9/23/2020		7.7		13			32
9/24/2020			5.2		1.4	0.99	
3/10/2021	0.89						
3/11/2021		7.9			4	0.79	
3/12/2021			1.6	15			31
8/24/2021	1.7						
8/25/2021			1.5	14	4	0.7	
8/26/2021		7.6					31
3/3/2022	1.4	7.1	1.3		3.4	0.65	28
3/4/2022				12			

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	168	8.24					
7/19/2016	190						
7/20/2016		11					
9/14/2016	230	12					
11/10/2016	240	11					
11/11/2016			12				
1/20/2017		10					
1/24/2017	280						
2/6/2017			11				
3/14/2017		8.8					
3/15/2017	260		10				
4/11/2017			11				
4/25/2017	300	12					
4/26/2017			8.4				
6/7/2017			9				
7/11/2017			9.5				
8/9/2017	350	11					
8/10/2017			8.8				
10/11/2017	360	10					
10/12/2017			9.5				
6/14/2018	260	6.2	8.9				
10/4/2018	250	6.4	10				
4/2/2019			11				
4/4/2019	110	5.6					
9/18/2019	62	5.5	8.8				
3/18/2020	66	6.3					
5/4/2020			15				
9/23/2020	43	5.9	13				
3/8/2021				90			
3/9/2021					66	15	3.2
3/11/2021	32	5.7	15				
4/7/2021					67		2.7
4/8/2021				88		14	
8/25/2021	27	6					
8/26/2021			10	120	51	24	4.6
1/11/2022					57	32	3.1
1/12/2022				220			
3/3/2022	24		12		54		
3/4/2022		5.3		200		31	4
6/6/2022					58		4.5
6/7/2022				140		19	

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			31.4	8.53
7/20/2016			28	8.2
9/14/2016				8.8
9/15/2016			27	
11/14/2016			32	
2/6/2017			41	
2/9/2017				10
3/15/2017			38	8.6
4/11/2017				8.6
4/26/2017			39	7.1
8/10/2017			53	7.5
10/12/2017			60	8.2
6/14/2018			52	7.5
10/4/2018			65	8
4/3/2019			61	7.2
9/19/2019			57	8.1
3/19/2020			79	9.3
9/22/2020			81	
9/23/2020				10
3/8/2021		14		
3/9/2021	65			
3/11/2021			83	
3/12/2021				11
4/7/2021	71			
4/8/2021		16		
8/26/2021	69	16	85	9.3
1/11/2022	51	16		
3/3/2022	42		88	8.6
3/4/2022		16		
6/6/2022	22			
6/7/2022		15		

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	3.8	6.05	2.5				
5/18/2016				1.92	1.45	2.14	1.58
7/19/2016	3.9	4	2.6			2.4	1.6
7/20/2016				1.8	1.4		
9/13/2016	3.6	3.1	2.4	1.7	1.4		1.4
9/14/2016						2.1	
11/9/2016	3.9	2.3	2.3				1.5
11/10/2016				1.6	1.3		
1/17/2017	3.8		2.3				
1/18/2017				1.7	1.3		1.5
1/19/2017		2				1.8	
3/13/2017	3.4		2.2				
3/14/2017		1.9		1.6	1.2	2	2.5
4/24/2017	3.4		2.2				
4/25/2017		1.9		1.6	1.2	1.8	1.3
8/8/2017	3.6	2	2.3	1.7			1.4
8/9/2017					1.2	1.9	
10/10/2017	3.6		2.5				
10/11/2017		1.9		1.6	1.2	2.1	1.3
6/13/2018	3.8	2				1.7	1.4
6/14/2018			2.3	1.6	1.2		
9/24/2018			2.4				
9/27/2018	4						
9/28/2018		2.1					
10/2/2018							1.4
10/3/2018				1.6	1.2	1.8	
4/1/2019	4		2.4				
4/2/2019		2.6		1.7	1.2	1.7	1.5
9/16/2019	4					1.8	1.5
9/17/2019		2	2.4		1.2		
9/18/2019				1.7			
3/16/2020	4.3		2.7				
3/17/2020		2.3		1.8	1.4	1.6	1.7
9/21/2020			2.5	1.5	1.2		
9/22/2020	4	2.1				1.5	1.4
3/10/2021		1.9	2.6	1.8	1.2	1.8	
3/11/2021	4.5						1.5
8/23/2021			3.3				
8/24/2021	5.1				1.5	2.1	1.8
8/25/2021		2.3		1.9			
2/28/2022					1.2		
3/1/2022	4.1		2.7	1.8		1.5	1.5
3/3/2022		2					

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	2.06	1.45					4.59
5/19/2016			3.21	3.8	2.26		
7/19/2016	2.1						5.9
7/20/2016		1.6	3.4	3.8	1.9		
9/13/2016	2						
9/14/2016		1.5	3.1	3.7	1.6		7.9
11/10/2016	1.8				1.4		6.5
11/11/2016		1.5	3.2	3.5			
1/18/2017	1.8						
1/24/2017							4.1
1/27/2017			3.4	3.1	1.4		
2/6/2017		1.4					
2/8/2017						2.5	
2/23/2017						4.3	
3/14/2017	1.8						4.4
3/15/2017		1.4	3.1	3.2	1.4		
3/17/2017						4.8	
4/11/2017						3.8	
4/25/2017	1.8						4
4/26/2017		1.3	3.1	3.2	1.3	4.8	
5/17/2017						3.9	
6/7/2017						3.2	
7/11/2017						4.1	
8/8/2017	1.9						
8/9/2017					1.4		3.6
8/10/2017		1.4	3.1	3.4			
10/11/2017	1.8					2.2	5
10/12/2017		1.3	3	3.1	1.2		
6/14/2018	1.7	1.3	3	3	1.2	2.8	4.3
10/3/2018	1.8						4.8
10/4/2018		1.3	3.1	3.1	1.2	2.2	
4/2/2019	1.9						
4/3/2019			3.3	3	1.2	2.4	
4/4/2019		1.4					3.7
9/18/2019	2				1.2	2.2	3.2
9/19/2019		1.5	3.2	3.2			
3/17/2020	2.2						
3/18/2020		1.5	3.2	3.2			1.7
3/19/2020					1.3	1.9	
9/22/2020	1.8						
9/23/2020		1.3		2.8			1.5
9/24/2020			1		1.6	3.1	
3/10/2021	1.9						
3/11/2021		1.7			1.2	2.6	
3/12/2021			3.6	3.5			1.6
8/24/2021	1.9						
8/25/2021			3.5	3.7	1.2	2.8	
8/26/2021		1.6					1.4
3/3/2022	2.1	1.6	3.6		1	2.4	1.4
3/4/2022				3.2			

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	217	2.72					
7/19/2016	250						
7/20/2016		1.9					
9/14/2016	260	1.6					
11/10/2016	290	1.6					
11/11/2016			2.6				
1/20/2017		1.5					
1/24/2017	310						
2/6/2017			2.6				
3/14/2017		1.5					
3/15/2017	330		2.4				
4/11/2017			2.3				
4/25/2017	330	1.8					
4/26/2017			2.3				
6/7/2017			2.5				
7/11/2017			2.3				
8/9/2017	330	1.4					
8/10/2017			2.5				
10/11/2017	320	1.5					
10/12/2017			2.3				
6/14/2018	290	1.5	2.4				
10/4/2018	290	1.5	2.6				
4/2/2019			2.5				
4/4/2019	170	1.4					
9/18/2019	100	1.5	2.7				
3/18/2020	93	1.5					
5/4/2020			2.8				
9/23/2020	58	1.2	2.6				
3/8/2021				70			
3/9/2021					58	2.9	3.5
3/11/2021	49	1.3	2.9				
4/7/2021					50		3.7
4/8/2021				57		2.4	
8/25/2021	45	1.6					
8/26/2021			3.3	130	47	4.2	3.3
1/11/2022					44	5.1	2.9
1/12/2022				350			
3/3/2022	42		3.2		45		
3/4/2022		1.3		330		5.3	2.9
6/6/2022					48		3.1
6/7/2022				180		4.3	

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			17.5	1.46
7/20/2016			19	1.5
9/14/2016				1.4
9/15/2016			19	
11/14/2016			25	
2/6/2017			33	
2/9/2017				1.5
3/15/2017			38	1.3
4/11/2017				1.2
4/26/2017			42	1.2
8/10/2017			48	1.3
10/12/2017			60	1.4
6/14/2018			58	1.2
10/4/2018			300	1.2
4/3/2019			70	2
9/19/2019			70	1.5
3/19/2020			98	2.1
9/22/2020			100	
9/23/2020				2.4
3/8/2021		74		
3/9/2021	110			
3/11/2021			110	
3/12/2021				3.4
4/7/2021	110			
4/8/2021		77		
8/26/2021	100	79	110	3.1
1/11/2022	60	75		
3/3/2022	50		130	3.5
3/4/2022		79		
6/6/2022	41			
6/7/2022		79		

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.002	<0.002	<0.002				
5/18/2016				<0.002	<0.002	<0.002	<0.002
7/19/2016	<0.002	<0.002	<0.002			<0.002	<0.002
7/20/2016				<0.002	<0.002		
9/13/2016	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002
9/14/2016						0.0031	
11/9/2016	<0.002	<0.002	<0.002				<0.002
11/10/2016				<0.002	<0.002		
1/17/2017	<0.002		<0.002				
1/18/2017				<0.002	<0.002		<0.002
1/19/2017		<0.002				<0.002	
3/13/2017	<0.002		<0.002				
3/14/2017		<0.002		<0.002	<0.002	<0.002	<0.002
4/24/2017	<0.002		<0.002				
4/25/2017		<0.002		<0.002	<0.002	<0.002	<0.002
8/8/2017	<0.002	<0.002	<0.002	<0.002			<0.002
8/9/2017					<0.002	<0.002	
3/27/2018	<0.002		<0.002				
3/28/2018		0.0049		<0.002	<0.002	<0.002	<0.002
6/13/2018	<0.002	<0.002				<0.002	<0.002
6/14/2018			<0.002	<0.002	<0.002		
9/24/2018			<0.002				
9/27/2018	<0.002						
9/28/2018		<0.002					
10/2/2018							<0.002
10/3/2018				<0.002	<0.002	<0.002	
2/25/2019	0.0016 (J)		<0.002				
2/26/2019		0.0016 (J)		<0.002	0.0021 (J)	<0.002	0.0023 (J)
4/1/2019	<0.002		<0.002				
4/2/2019		<0.002		<0.002	<0.002	<0.002	<0.002
9/16/2019	0.0016 (J)					<0.002	<0.002
9/17/2019		<0.002	0.0017 (J)		<0.002		
9/18/2019				<0.002			
2/3/2020	<0.002		<0.002				
2/4/2020				<0.002	<0.002	<0.002	<0.002
2/5/2020		<0.002					
3/16/2020	<0.002		<0.002				
3/17/2020		<0.002		<0.002	<0.002	<0.002	<0.002
9/21/2020			<0.002	<0.002	<0.002		
9/22/2020	<0.002	<0.002				<0.002	<0.002
2/2/2021	<0.002	<0.002	<0.002	<0.002	<0.002		
2/3/2021						<0.002	<0.002
3/10/2021		<0.002	<0.002	<0.002	<0.002	<0.002	
3/11/2021	<0.002						<0.002
8/23/2021			<0.002				
8/24/2021	<0.002				<0.002	<0.002	<0.002
8/25/2021		<0.002		<0.002			
2/28/2022					<0.002		
3/1/2022	<0.002		<0.002	<0.002		<0.002	<0.002
3/3/2022		<0.002					

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.002	<0.002					<0.002
5/19/2016			<0.002	<0.002	<0.002		
7/19/2016	<0.002						<0.002
7/20/2016		0.0012 (J)	<0.002	<0.002	<0.002		
9/13/2016	<0.002						
9/14/2016		<0.002	<0.002	<0.002	<0.002		<0.002
11/10/2016	<0.002				<0.002		<0.002
11/11/2016		0.0015 (J)	<0.002	<0.002			
1/18/2017	<0.002						
1/24/2017							<0.002
1/27/2017			<0.002	<0.002	<0.002		
2/6/2017		0.0011 (J)					
2/8/2017						<0.002	
2/23/2017						<0.002	
3/14/2017	<0.002						<0.002
3/15/2017		0.0015 (J)	<0.002	<0.002	<0.002		
3/17/2017						<0.002	
4/11/2017						<0.002	
4/25/2017	<0.002						<0.002
4/26/2017		0.0013 (J)	0.0011 (J)	<0.002	<0.002	<0.002	
5/17/2017						<0.002	
6/7/2017						<0.002	
7/11/2017						<0.002	
8/8/2017	<0.002						
8/9/2017					<0.002		<0.002
8/10/2017		0.0016 (J)	<0.002	<0.002			
3/28/2018	<0.002						
3/29/2018			0.0012 (J)	<0.002	<0.002	<0.002	
3/30/2018		0.0027					<0.002
6/14/2018	<0.002	0.0023 (J)	<0.002	<0.002	<0.002	<0.002	<0.002
10/3/2018	<0.002						<0.002
10/4/2018		0.0031	<0.002	<0.002	<0.002	<0.002	
2/26/2019	<0.002						
2/27/2019		0.0031	0.0021 (J)	<0.002	0.0018 (J)	<0.002	0.0015 (J)
4/2/2019	<0.002						
4/3/2019			<0.002	<0.002	<0.002	<0.002	
4/4/2019		0.0021 (J)					<0.002
9/18/2019	<0.002				<0.002	<0.002	<0.002
9/19/2019		0.0022	<0.002	<0.002			
2/5/2020	<0.002	0.0022	<0.002	<0.002	<0.002	0.0017 (J)	
2/7/2020							<0.002
3/17/2020	<0.002						
3/18/2020		<0.002	<0.002	<0.002			<0.002
3/19/2020					<0.002	<0.002	
9/22/2020	<0.002						
9/23/2020		0.0018 (J)		<0.002			<0.002
9/24/2020			<0.002		<0.002	<0.002	
2/2/2021	<0.002						
2/3/2021			<0.002	<0.002			
2/4/2021		0.0018 (J)			<0.002	<0.002	<0.002
3/10/2021	<0.002						
3/11/2021		0.0023			0.0019 (J)	<0.002	

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			0.0017 (J)	<0.002			<0.002
8/24/2021	<0.002						
8/25/2021			<0.002	<0.002	0.0017 (J)	<0.002	
8/26/2021		0.0024					<0.002
3/3/2022	<0.002	0.0023	<0.002		<0.002	<0.002	<0.002
3/4/2022				<0.002			

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.002	<0.002					
7/19/2016	<0.002						
7/20/2016		<0.002					
9/14/2016	<0.002	<0.002					
11/10/2016	<0.002	<0.002					
11/11/2016			<0.002				
1/20/2017		<0.002					
1/24/2017	<0.002						
2/6/2017			<0.002				
3/14/2017		<0.002					
3/15/2017	<0.002		<0.002				
4/11/2017			<0.002				
4/25/2017	<0.002	<0.002					
4/26/2017			<0.002				
6/7/2017			<0.002				
7/11/2017			<0.002				
8/9/2017	<0.002	<0.002					
8/10/2017			<0.002				
3/29/2018	<0.002		<0.002				
3/30/2018		<0.002					
6/14/2018	<0.002	<0.002	<0.002				
10/4/2018	<0.002	<0.002	<0.002				
2/26/2019		<0.002					
2/27/2019	<0.002						
2/28/2019			<0.002				
4/2/2019			<0.002				
4/4/2019	<0.002	<0.002					
9/18/2019	<0.002	<0.002	<0.002				
2/7/2020	<0.002	<0.002	<0.002				
3/18/2020	<0.002	<0.002					
5/4/2020			<0.002				
9/23/2020	<0.002	<0.002	<0.002				
2/3/2021			<0.002				
2/4/2021	<0.002	<0.002					
3/11/2021	<0.002	<0.002	<0.002				
8/25/2021	<0.002	<0.002					
8/26/2021			<0.002	<0.002	<0.002	<0.002	<0.002
1/11/2022					<0.002	<0.002	<0.002
1/12/2022				<0.002			
3/3/2022	<0.002		<0.002		<0.002		
3/4/2022		<0.002		<0.002		<0.002	<0.002
6/6/2022					<0.002		<0.002
6/7/2022				<0.002		<0.002	

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			<0.002	<0.002
7/20/2016			<0.002	<0.002
9/14/2016				<0.002
9/15/2016			<0.002	
11/14/2016			<0.002	
2/6/2017			<0.002	
2/9/2017				<0.002
3/15/2017			<0.002	<0.002
4/11/2017				<0.002
4/26/2017			<0.002	<0.002
8/10/2017			<0.002	<0.002
3/29/2018			<0.002	<0.002
6/14/2018			<0.002	<0.002
10/4/2018			<0.002	<0.002
2/27/2019			<0.002	
2/28/2019				0.0025
4/3/2019			<0.002	<0.002
9/19/2019			<0.002	<0.002
2/5/2020				<0.002
2/7/2020			<0.002	
3/19/2020			<0.002	<0.002
9/22/2020			<0.002	
9/23/2020				<0.002
2/3/2021			<0.002	
2/4/2021				<0.002
3/11/2021			<0.002	
3/12/2021				<0.002
8/26/2021	<0.002	<0.002	<0.002	<0.002
1/11/2022	<0.002	<0.002		
3/3/2022	<0.002		<0.002	<0.002
3/4/2022		<0.002		
6/6/2022	<0.002			
6/7/2022		<0.002		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.0025	<0.0025	<0.0025				
5/18/2016				<0.0025	<0.0025	<0.0025	<0.0025
7/19/2016	0.0014 (J)	0.0019 (J)	0.00086 (J)			0.0014 (J)	<0.0025
7/20/2016				<0.0025	<0.0025		
9/13/2016	0.0015 (J)	0.0032	0.00095 (J)	<0.0025	<0.0025		<0.0025
9/14/2016						0.013	
11/9/2016	0.0012 (J)	0.0039	0.0011 (J)				<0.0025
11/10/2016				<0.0025	<0.0025		
1/17/2017	0.001 (J)		<0.0025				
1/18/2017				<0.0025	<0.0025		<0.0025
1/19/2017		0.0032				0.064 (O)	
3/13/2017	0.0011 (J)		0.00087 (J)				
3/14/2017		0.0045		<0.0025	<0.0025	0.0066	0.0018 (J)
4/24/2017	0.001 (J)		0.0014 (J)				
4/25/2017		0.002 (J)		<0.0025	<0.0025	0.0026	<0.0025
8/8/2017	0.0011 (J)	0.0031	0.0012 (J)	<0.0025			<0.0025
8/9/2017					<0.0025	0.0025	
3/27/2018	0.00091 (J)		0.0012 (J)				
3/28/2018		0.0013 (J)		<0.0025	<0.0025	0.0015 (J)	<0.0025
6/13/2018	0.00094 (J)	0.0021 (J)				0.0011 (J)	<0.0025
6/14/2018			0.00085 (J)	<0.0025	<0.0025		
9/24/2018			0.00085 (J)				
9/27/2018	0.00085 (J)						
9/28/2018		0.0024 (J)					
10/2/2018							<0.0025
10/3/2018				<0.0025	<0.0025	0.0013 (J)	
2/25/2019	0.00085 (J)		0.00083 (J)				
2/26/2019		0.00026 (J)		<0.0025	0.00029 (J)	0.0006 (J)	0.00031 (J)
4/1/2019	0.00079 (J)		0.00082 (J)				
4/2/2019		<0.0025		<0.0025	<0.0025	0.00046 (J)	<0.0025
9/16/2019	0.00082					0.0035	9.1E-05 (J)
9/17/2019		0.0012	0.00063		<0.0025		
9/18/2019				<0.0025			
2/3/2020	0.00062		0.00068				
2/4/2020				<0.0025	<0.0025	0.00082	<0.0025
2/5/2020		0.0027					
3/16/2020	0.00092 (J)		0.00066 (J)				
3/17/2020		0.0017 (J)		<0.0025	<0.0025	0.00066 (J)	0.00014 (J)
9/21/2020			0.00054 (J)	<0.0025	<0.0025		
9/22/2020	0.00072 (J)	0.00033 (J)				0.0065	<0.0025
2/2/2021	0.00082 (J)	0.0018 (J)	0.00069 (J)	<0.0025	<0.0025		
2/3/2021						0.0015 (J)	<0.0025
3/10/2021		0.0015 (J)	0.00073 (J)	<0.0025	<0.0025	0.0011 (J)	
3/11/2021	0.00081 (J)						<0.0025
8/23/2021			0.00049 (J)				
8/24/2021	0.0016 (J)				<0.0025	0.00079 (J)	<0.0025
8/25/2021		0.00084 (J)		<0.0025			
2/28/2022					<0.0025		
3/1/2022	0.00073 (J)		0.00038 (J)	<0.0025		0.0014 (J)	<0.0025
3/3/2022		0.0014 (J)					

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0025	0.00201 (J)					<0.0025
5/19/2016			<0.0025	<0.0025	<0.0025		
7/19/2016	<0.0025						<0.0025
7/20/2016		0.00066 (J)	0.0025	0.0013 (J)	<0.0025		
9/13/2016	<0.0025						
9/14/2016		0.00095 (J)	<0.0025	0.00098 (J)	<0.0025		<0.0025
11/10/2016	0.00055 (J)				<0.0025		<0.0025
11/11/2016		0.001 (J)	0.00052 (J)	0.0017 (J)			
1/18/2017	0.00097 (J)						
1/24/2017							<0.0025
1/27/2017			0.00049 (J)	0.0022 (J)	<0.0025		
2/6/2017		0.00072 (J)					
2/8/2017						0.0051	
2/23/2017						0.014	
3/14/2017	<0.0025						<0.0025
3/15/2017		0.00062 (J)	0.00064 (J)	0.0016 (J)	<0.0025		
3/17/2017						0.013	
4/11/2017						0.016	
4/25/2017	<0.0025						<0.0025
4/26/2017		0.0014 (J)	0.001 (J)	0.00026 (J)	<0.0025	0.01	
5/17/2017						0.011	
6/7/2017						0.01	
7/11/2017						0.0085	
8/8/2017	<0.0025						
8/9/2017					0.0004 (J)		<0.0025
8/10/2017		<0.0025	0.0011 (J)	0.00049 (J)			
3/28/2018	<0.0025						
3/29/2018			<0.0025	0.0008 (J)	0.0008 (J)	0.015	
3/30/2018		0.0035					<0.0025
6/14/2018	<0.0025	0.0012 (J)	<0.0025	0.00067 (J)	0.00054 (J)	0.011	<0.0025
10/3/2018	<0.0025						<0.0025
10/4/2018		0.00086 (J)	<0.0025	0.00079 (J)	<0.0025	0.0055	
2/26/2019	0.00017 (J)						
2/27/2019		0.0005 (J)	0.0022 (J)	0.0006 (J)	0.00013 (J)	0.0049	<0.0025
4/2/2019	<0.0025						
4/3/2019			0.00081 (J)	0.00043 (J)	<0.0025	0.0056	
4/4/2019		0.0017 (J)					<0.0025
9/18/2019	0.0002 (J)				<0.0025	0.005	<0.0025
9/19/2019		0.0023	<0.0025	0.00028 (J)			
2/5/2020	0.00021 (J)	0.0013	0.00026 (J)	0.00058	<0.0025	0.0044	
2/7/2020							<0.0025
3/17/2020	0.00065 (J)						
3/18/2020		0.0012 (J)	0.00069 (J)	0.00071 (J)			<0.0025
3/19/2020					<0.0025	0.0039	
9/22/2020	0.00015 (J)						
9/23/2020		0.00062 (J)		0.00039 (J)			<0.0025
9/24/2020			<0.0025		0.00032 (J)	0.0035	
2/2/2021	<0.0025						
2/3/2021			0.00072 (J)	0.00017 (J)			
2/4/2021		0.00059 (J)			<0.0025	0.0041	0.00015 (J)
3/10/2021	<0.0025						
3/11/2021		0.00058 (J)			<0.0025	0.0037	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			0.0022 (J)	0.00042 (J)			<0.0025
8/24/2021	0.00017 (J)						
8/25/2021			0.00045 (J)	0.0005 (J)	<0.0025	0.0029	
8/26/2021		0.00044 (J)					<0.0025
3/3/2022	<0.0025	0.00045 (J)	0.00026 (J)		<0.0025	0.0024 (J)	<0.0025
3/4/2022				0.00056 (J)			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.0069	0.00245 (J)					
7/19/2016	0.012						
7/20/2016		0.0018 (J)					
9/14/2016	0.013	0.0014 (J)					
11/10/2016	0.016	0.0016 (J)					
11/11/2016			<0.0025				
1/20/2017		0.0014 (J)					
1/24/2017	0.015						
2/6/2017			0.00058 (J)				
3/14/2017		0.0023 (J)					
3/15/2017	0.014		0.00045 (J)				
4/11/2017			<0.0025				
4/25/2017	0.014	0.0023 (J)					
4/26/2017			<0.0025				
6/7/2017			<0.0025				
7/11/2017			<0.0025				
8/9/2017	0.016	0.0011 (J)					
8/10/2017			0.00049 (J)				
3/29/2018	0.0092		<0.0025				
3/30/2018		0.0016 (J)					
6/14/2018	0.0035	0.00055 (J)	<0.0025				
10/4/2018	0.0078	0.00041 (J)	<0.0025				
2/26/2019		0.00086 (J)					
2/27/2019	0.00084 (J)						
2/28/2019			0.00019 (J)				
4/2/2019			<0.0025				
4/4/2019	0.00077 (J)	<0.0025					
9/18/2019	0.00011 (J)	0.00018 (J)	0.00045 (J)				
2/7/2020	0.00016 (J)	0.00077	0.00024 (J)				
3/18/2020	0.00016 (J)	0.00052 (J)					
5/4/2020			0.00018 (J)				
9/23/2020	<0.0025	0.0009 (J)	0.00024 (J)				
2/3/2021			0.00025 (J)				
2/4/2021	0.00026 (J)	0.00042 (J)					
3/11/2021	0.00013 (J)	0.00035 (J)	0.00022 (J)				
8/25/2021	<0.0025	0.00042 (J)					
8/26/2021			0.00022 (J)	0.00046 (J)	0.00042 (J)	0.00038 (J)	0.00017 (J)
1/11/2022					0.00032 (J)	0.00025 (J)	0.00016 (J)
1/12/2022				0.00037 (J)			
3/3/2022	<0.0025		0.00034 (J)		0.00042 (J)		
3/4/2022		0.00026 (J)		<0.0025		0.00034 (J)	<0.0025
6/6/2022					0.001 (J)		<0.0025
6/7/2022				<0.0025		<0.0025	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			<0.0025	<0.0025
7/20/2016			<0.0025	<0.0025
9/14/2016				<0.0025
9/15/2016			<0.0025	
11/14/2016			<0.0025	
2/6/2017			<0.0025	
2/9/2017				0.00073 (J)
3/15/2017			<0.0025	<0.0025
4/11/2017				<0.0025
4/26/2017			<0.0025	<0.0025
8/10/2017			<0.0025	<0.0025
3/29/2018			0.00066 (J)	<0.0025
6/14/2018			0.0011 (J)	<0.0025
10/4/2018			<0.0025	<0.0025
2/27/2019			0.0019 (J)	
2/28/2019				<0.0025
4/3/2019			0.0037	<0.0025
9/19/2019			0.0028	<0.0025
2/5/2020				<0.0025
2/7/2020			0.0011	
3/19/2020			0.00092 (J)	<0.0025
9/22/2020			0.00065 (J)	
9/23/2020				<0.0025
2/3/2021			0.00014 (J)	
2/4/2021				<0.0025
3/11/2021			0.00043 (J)	
3/12/2021				<0.0025
8/26/2021	0.13	0.005	0.0005 (J)	<0.0025
1/11/2022	0.11	0.0048		
3/3/2022	0.086		0.0003 (J)	<0.0025
3/4/2022		0.004		
6/6/2022	0.042			
6/7/2022		0.0043		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	0.0525 (U)	0.184 (U)	0.13 (U)				
5/18/2016				0.025 (U)	1.04	0.325 (U)	8
7/19/2016	7.25 (O)	0.27 (U)	0.121 (U)			0.433 (U)	7.69
7/20/2016				0.398 (U)	0.812		
9/13/2016	0.592 (U)	0.194 (U)	0.372 (U)	0.215 (U)	0.958		6.98
11/9/2016	0.221 (U)	0.219 (U)	0.217 (U)				8.78
11/10/2016				0.421	1.13		
1/17/2017	0.295 (U)		0.595				
1/18/2017				0.434 (U)	1.76		10.4
1/19/2017		0.0745 (U)				0.216 (U)	
3/13/2017	-0.13 (U)		-0.147 (U)				
3/14/2017		0.194 (U)		0.167 (U)	0.788	0.119 (U)	0.589 (O)
4/24/2017	0.36 (U)		0.367				
4/25/2017		0.109 (U)		0.224 (U)	1.13	0.105 (U)	8.22
8/8/2017	0.382	0.0842 (U)	0.402	0.127 (U)			7.21
8/9/2017					1.31	0.385 (U)	
3/27/2018	0.475		0.453				
3/28/2018		0.424		0.15 (U)	1.32	0.492	7.52
6/13/2018	-0.0181 (U)	0.401				0.275 (U)	8.77
6/14/2018			0.402	0.258 (U)	0.857		
9/24/2018			0.318				
9/27/2018	0.342						
9/28/2018		0.381					
10/2/2018							8.72
10/3/2018				0.178 (U)	0.943	0.72	
2/25/2019	0.394		0.44				
2/26/2019		0.307 (U)		0.179 (U)	0.65	0.113 (U)	8.93
4/1/2019	0.169 (U)		-0.00216 (U)				
4/2/2019		0.0436 (U)		0.361	0.602	0.255 (U)	7.8
9/16/2019	0.31 (U)					0.318 (U)	8.55
9/17/2019		0.263 (U)	0.165 (U)		0.788		
9/18/2019				0.189 (U)			
2/3/2020	0.283 (U)		0.0879 (U)				
2/4/2020				-0.107 (U)	1.49	0.198 (U)	8.3
2/5/2020		0.327 (U)					
3/16/2020	0.394 (U)		0.289 (U)				
3/17/2020		0.6 (U)		-0.139 (U)	0.964	0.207 (U)	8.88
9/21/2020			0.418 (U)	0.0688 (U)	1.07		
9/22/2020	0.729	0.557 (U)				0.954	7.65
2/2/2021	0.243 (U)	0.354 (U)	0.202 (U)	0.182 (U)	1.05		
2/3/2021						-0.314 (U)	9.99
3/10/2021		0.218 (U)	0.378 (U)	-0.177 (U)	1.47	0.144 (U)	
3/11/2021	0.046 (U)						9.2
8/23/2021			0.632				
8/24/2021	0.598				1.61	0.226 (U)	9.78
8/25/2021		0.645		-0.121 (U)			
2/28/2022					1.3		
3/1/2022	-0.0398 (U)		-0.141 (U)	0.238 (U)		0.428 (U)	9.86
3/3/2022		0.474					

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.268 (U)	0.182 (U)					0.569
5/19/2016			0.431 (U)	0.0698 (U)	0.219 (U)		
7/19/2016	0.369 (U)						0.29 (U)
7/20/2016		-0.135 (U)	-0.263 (U)	-0.0646 (U)	0.404 (U)		
9/13/2016	0.527 (U)						
9/14/2016		0.311 (U)	0.13 (U)	0.199 (U)	0.692		0.412 (U)
11/10/2016	0.871				1		0.709
11/11/2016		0.542	0.0257 (U)	0.467			
1/18/2017	0.213 (U)						
1/24/2017							0.779
1/27/2017			0.898	0.836	0.668		
2/6/2017		0.104 (U)					
2/8/2017						0.958	
2/23/2017						0.771	
3/14/2017	0.0192 (U)						0.247 (U)
3/15/2017		0.523	0.121 (U)	0.254 (U)	0.847		
3/17/2017						1.7	
4/11/2017						0.901	
4/25/2017	0.0872 (U)						0.515
4/26/2017		0.069 (U)	0.0309 (U)	0.267 (U)	0.408 (U)	0.434	
5/17/2017						0.632	
6/7/2017						1.06	
7/11/2017						0.716	
8/8/2017	0.219 (U)						
8/9/2017					0.816		1.7
8/10/2017		0.189 (U)	0.326 (U)	0.912			
3/28/2018	0.315 (U)						
3/29/2018			0.461	0.419	0.51	0.58	
3/30/2018		0.575					0.0985 (U)
6/14/2018	0.41	0.523	0.275 (U)	-0.263 (U)	0.463	0.55	0.171 (U)
10/3/2018	0.65						0.766
10/4/2018		0.84	1.18	1.29	0.99	0.563	
2/26/2019	0.395						
2/27/2019		0.236 (U)	0.374	0.415	1.08	0.538	0.363 (U)
4/2/2019	0.182 (U)						
4/3/2019			0.187 (U)	0.264 (U)	0.446	0.497	
4/4/2019		0.233 (U)					0.418
9/18/2019	0.299 (U)				0.392	0.376 (U)	0.484
9/19/2019		0.124 (U)	0.338 (U)	0.329 (U)			
2/5/2020	-0.0263 (U)	0.0961 (U)	0.163 (U)	0.225 (U)	0.609	0.5	
2/7/2020							0.125 (U)
3/17/2020	0.258 (U)						
3/18/2020		0.461 (U)	0.866	-0.0262 (U)			0.303 (U)
3/19/2020					0.47	0.376 (U)	
9/22/2020	0.0523 (U)						
9/23/2020		0.442 (U)		0.785			0.448 (U)
9/24/2020			1.2		1.02	0.796	
2/2/2021	0.167 (U)						
2/3/2021			0.718	0.322 (U)			
2/4/2021		0.0332 (U)			0.139 (U)	0.564	0.488 (U)
3/10/2021	0.224 (U)						
3/11/2021		0.42 (U)			0.473	0.764	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			0.0729 (U)	0.633			0.591
8/24/2021	0.465 (U)						
8/25/2021			0.401	0.443 (U)	0.913	0.705	
8/26/2021		0.321 (U)					0.678
3/3/2022	0.415	0.587	0.622		0.621	0.956	0.358 (U)
3/4/2022				0.408			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	1.03	0.116 (U)					
7/19/2016	2.39						
7/20/2016		0.247 (U)					
9/14/2016	3.05	0.594					
11/10/2016	2.87	0.431					
11/11/2016			-0.11 (U)				
1/20/2017		1.35					
1/24/2017	2.68						
2/6/2017			0.471				
3/14/2017		-0.107 (U)					
3/15/2017	1.64		0.255 (U)				
4/11/2017			0.19 (U)				
4/25/2017	0.878	0.228 (U)					
4/26/2017			0.22 (U)				
6/7/2017			0.126 (U)				
7/11/2017			0.511				
8/9/2017	2.5	-0.0246 (U)					
8/10/2017			0.882				
3/29/2018	1.6		0.252 (U)				
3/30/2018		0.135 (U)					
6/14/2018	1.09	-0.373 (U)	0.0458 (U)				
10/4/2018	1.99	0.775	0.381				
2/26/2019		0.431					
2/27/2019	0.721						
2/28/2019			0.254 (U)				
4/2/2019			0.209 (U)				
4/4/2019	0.632	0.386					
9/18/2019	0.278 (U)	0.167 (U)	0.403 (U)				
2/7/2020	0.797	0.244 (U)	0.2 (U)				
3/18/2020	0.437	0.0655 (U)					
5/4/2020			0.0697 (U)				
9/23/2020	0.276 (U)	0.643	1.18				
2/3/2021			0.684				
2/4/2021	0.727	0.438 (U)					
3/11/2021	0.942	0.247 (U)	0.286 (U)				
8/25/2021	0.518	0.565					
8/26/2021			0.796	1.6	1.17	3.54	0.703
1/11/2022					0.919	6.91	0.218 (U)
1/12/2022				1.09			
3/3/2022	0.573		0.909		1.31		
3/4/2022		0.573		0.925		7.57	0.437 (U)
6/6/2022					2.61		1.45
6/7/2022				0.67		4.67	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			0.711 (U)	0.209 (U)
7/20/2016			1.14	-0.084 (U)
9/14/2016				0.42 (U)
9/15/2016			1.26	
11/14/2016			0.749	
2/6/2017			1.05	
2/9/2017				0.393
3/15/2017			1.32	0.271 (U)
4/11/2017				0.488 (U)
4/26/2017			1.07	0.14 (U)
8/10/2017			1.88	0.379
3/29/2018			2.31	0.278 (U)
6/14/2018			1.86	0.157 (U)
10/4/2018			2.44	0.48
2/27/2019			2.42	
2/28/2019				0.271 (U)
4/3/2019			1.55	0.0621 (U)
9/19/2019			2.06	0.537
2/5/2020				-0.137 (U)
2/7/2020			1.66	
3/19/2020			1.21	0.23 (U)
9/22/2020			1.75	
9/23/2020				0.0587 (U)
2/3/2021			2	
2/4/2021				0.353 (U)
3/11/2021			2.38	
3/12/2021				0.831
8/26/2021	1.63	1.12	2.87	0.681
1/11/2022	0.749	0.606		
3/3/2022	0.893		3.18	0.431 (U)
3/4/2022		0.818		
6/6/2022	0.845			
6/7/2022		0.5		

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	0.0131 (J)	0.284 (J)	0.0538 (J)				
5/18/2016				0.029 (J)	0.164 (J)	0.014 (J)	0.106 (J)
7/19/2016	<0.1	0.21	<0.1			<0.1	0.11 (J)
7/20/2016				<0.1	0.17 (J)		
9/13/2016	<0.1	0.15 (J)	<0.1	<0.1	0.15 (J)		0.11 (J)
9/14/2016						0.095 (J)	
11/9/2016	<0.1	<0.1	0.085 (J)				0.1 (J)
11/10/2016				<0.1	0.12 (J)		
1/17/2017	<0.1		<0.1				
1/18/2017				<0.1	0.15 (J)		0.11 (J)
1/19/2017		0.087 (J)				<0.1	
3/13/2017	<0.1		<0.1				
3/14/2017		<0.1		<0.1	0.13 (J)	<0.1	<0.1
4/24/2017	<0.1		<0.1				
4/25/2017		<0.1		<0.1	0.12 (J)	<0.1	<0.1
8/8/2017	<0.1	0.087 (J)	<0.1	<0.1			0.099 (J)
8/9/2017					0.14 (J)	<0.1	
10/10/2017	<0.1		0.18 (J)				
10/11/2017		0.09 (J)		<0.1	0.14 (J)	<0.1	0.098 (J)
3/27/2018	<0.1		<0.1				
3/28/2018		0.11 (J)		<0.1	0.12 (J)	<0.1	0.088 (J)
6/13/2018	<0.1	0.085 (J)				<0.1	0.093 (J)
6/14/2018			<0.1	<0.1	0.12 (J)		
9/24/2018			<0.1				
9/27/2018	<0.1						
9/28/2018		0.082 (J)					
10/2/2018							0.13 (J)
10/3/2018				<0.1	0.13 (J)	<0.1	
2/25/2019	<0.1		0.032 (J)				
2/26/2019		0.23		<0.1	0.14 (J)	<0.1	0.074 (J)
4/1/2019	<0.1		0.061 (J)				
4/2/2019		0.21		0.039 (J)	0.14 (J)	<0.1	0.09 (J)
9/16/2019	0.03 (J)					<0.1	0.1 (J)
9/17/2019		0.079 (J)	0.061 (J)		0.14 (J)		
9/18/2019				0.033 (J)			
2/3/2020	0.032 (J)		0.061 (J)				
2/4/2020				0.031 (J)	0.13	<0.1	0.13
2/5/2020		0.12					
3/16/2020	0.042 (J)		0.052 (J)				
3/17/2020		<0.1		0.04 (J)	0.11	<0.1	0.037 (J)
9/21/2020			0.037 (J)	<0.1	0.091 (J)		
9/22/2020	<0.1	0.1				<0.1	0.068 (J)
2/2/2021	0.028 (J)	0.071 (J)	0.065 (J)	0.035 (J)	0.15		
2/3/2021						<0.1	0.088 (J)
3/10/2021		0.046 (J)	0.045 (J)	<0.1	0.12	<0.1	
3/11/2021	<0.1						0.092 (J)
8/23/2021			0.097 (J)				
8/24/2021	0.062 (J)				0.17	0.073 (J)	0.16
8/25/2021		0.13		0.077 (J)			
2/28/2022					0.083 (J)		
3/1/2022	<0.1		0.058 (J)	<0.1		<0.1	0.063 (J)
3/3/2022		0.078 (J)					

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.018 (J)	0.206					0.779
5/19/2016			0.039 (J)	0.12 (J)	0.384		
7/19/2016	<0.1						0.97
7/20/2016		0.23	<0.1	0.11 (J)	0.34		
9/13/2016	<0.1						
9/14/2016		0.17 (J)	<0.1	0.095 (J)	0.31		0.89
11/10/2016	<0.1				0.26		0.88
11/11/2016		0.14 (J)	<0.1	<0.1			
1/18/2017	<0.1						
1/24/2017							0.92
1/27/2017			<0.1	<0.1	0.28		
2/6/2017		0.15 (J)					
2/8/2017						<0.1	
2/23/2017						<0.1	
3/14/2017	<0.1						0.77
3/15/2017		0.16 (J)	<0.1	<0.1	0.3		
3/17/2017						<0.1	
4/11/2017						<0.1	
4/25/2017	<0.1						0.95
4/26/2017		0.17 (J)	<0.1	<0.1	0.33	<0.1	
5/17/2017						<0.1	
6/7/2017						<0.1	
7/11/2017						<0.1	
8/8/2017	<0.1						
8/9/2017					0.32		0.91
8/10/2017		0.2	<0.1	0.11 (J)			
10/11/2017	<0.1					<0.1	0.88
10/12/2017		0.14 (J)	<0.1	0.091 (J)	0.28		
3/28/2018	<0.1						
3/29/2018			<0.1	0.089 (J)	0.27	<0.1	
3/30/2018		0.13 (J)					0.79
6/14/2018	<0.1	0.15 (J)	<0.1	0.1 (J)	0.27	<0.1	0.79
10/3/2018	<0.1						0.79
10/4/2018		0.18 (J)	<0.1	0.12 (J)	0.23	<0.1	
2/26/2019	<0.1						
2/27/2019		0.21	0.047 (J)	0.06 (J)	0.25	<0.1	0.81
4/2/2019	<0.1						
4/3/2019			0.048 (J)	0.084 (J)	0.24	0.048 (J)	
4/4/2019		0.13 (J)					0.78
9/18/2019	0.027 (J)				0.22	0.035 (J)	0.81
9/19/2019		0.13 (J)	0.037 (J)	0.093 (J)			
2/5/2020	0.026 (J)	0.14	0.045 (J)	0.098 (J)	0.2	0.04 (J)	
2/7/2020							0.79
3/17/2020	0.044 (J)						
3/18/2020		0.052 (J)	<0.1	0.033 (J)			0.71
3/19/2020					0.15	<0.1	
9/22/2020	<0.1						
9/23/2020		0.09 (J)		0.064 (J)			0.63
9/24/2020			0.18		<0.1	0.028 (J)	
2/2/2021	<0.1						
2/3/2021			0.027 (J)	0.082 (J)			
2/4/2021		0.12			0.16	0.033 (J)	0.69

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/10/2021	<0.1						
3/11/2021		0.15			0.18	0.04 (J)	
3/12/2021			0.044 (J)	0.096 (J)			0.88
8/24/2021	0.054 (J)						
8/25/2021			0.056 (J)	0.14	0.2	0.071 (J)	
8/26/2021		0.16					0.77
3/3/2022	0.038 (J)	0.067 (J)	0.055 (J)		0.21	0.057 (J)	0.88
3/4/2022				0.068 (J)			

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.1 (J)	0.121 (J)					
7/19/2016	0.14 (J)						
7/20/2016		0.16 (J)					
9/14/2016	0.18 (J)	0.19 (J)					
11/10/2016	0.11 (J)	0.15 (J)					
11/11/2016			0.32				
1/20/2017		0.18 (J)					
1/24/2017	0.15 (J)						
2/6/2017			0.45				
3/14/2017		0.11 (J)					
3/15/2017	0.1 (J)		0.37				
4/11/2017			0.37				
4/25/2017	0.13 (J)	0.13 (J)					
4/26/2017			0.4				
6/7/2017			0.35				
7/11/2017			0.39				
8/9/2017	0.18 (J)	0.19 (J)					
8/10/2017			0.42				
10/11/2017	<0.1	0.14 (J)					
10/12/2017			0.36				
3/29/2018	0.13 (J)		0.34				
3/30/2018		0.095 (J)					
6/14/2018	<0.1	0.11 (J)	0.35				
10/4/2018	0.85 (J)	0.11 (J)	0.35				
2/26/2019		0.068 (J)					
2/27/2019	0.47						
2/28/2019			0.28				
4/2/2019			0.33				
4/4/2019	0.08 (J)	0.087 (J)					
9/18/2019	0.058 (J)	0.066 (J)	0.32				
2/7/2020	0.072 (J)	0.079 (J)	0.35				
3/18/2020	0.084 (J)	<0.1					
5/4/2020			0.36				
9/23/2020	0.049 (J)	0.05 (J)	0.25				
2/3/2021			0.3				
2/4/2021	0.052 (J)	0.064 (J)					
3/8/2021				1.8			
3/9/2021					1.7	1.1	0.092 (J)
3/11/2021	0.061 (J)	0.05 (J)	0.31				
4/7/2021					1.6		0.093 (J)
4/8/2021				1.7		1.4	
8/25/2021	0.099 (J)	0.093 (J)					
8/26/2021			0.38	2	2	0.51	0.081 (J)
1/11/2022					1.9	0.45	0.045 (J)
1/12/2022				1.8			
3/3/2022	0.067 (J)		0.4		1.8		
3/4/2022		0.06 (J)		2		0.42	0.045 (J)
6/6/2022					1.9		0.028 (J)
6/7/2022				2.5		0.37	

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			0.304	1.58
7/20/2016			0.27	2
9/14/2016				1.8
9/15/2016			0.24	
11/14/2016			0.2	
2/6/2017			0.27	
2/9/2017				1.3
3/15/2017			0.25	1.3
4/11/2017				1.4
4/26/2017			0.31	1.5
8/10/2017			0.37	1.6
10/12/2017			0.35	1.5
3/29/2018			0.36	1.4
6/14/2018			0.56	1.4
10/4/2018			0.27	1.4
2/27/2019			0.054 (J)	
2/28/2019				1.4
4/3/2019			0.5	1.3
9/19/2019			0.42	1.3
2/5/2020				1.3
2/7/2020			0.25	
3/19/2020			0.057 (J)	1
9/22/2020			0.14	
9/23/2020				0.82
2/3/2021			0.15	
2/4/2021				0.91
3/8/2021		<0.1		
3/9/2021	1			
3/11/2021			0.16	
3/12/2021				0.98
4/7/2021	1.1			
4/8/2021		0.028 (J)		
8/26/2021	1.2	0.047 (J)	0.21	1
1/11/2022	1	0.028 (J)		
3/3/2022	0.71		0.19	1
3/4/2022		0.038 (J)		
6/6/2022	0.43			
6/7/2022		<0.1		

Time Series

Constituent: Lead (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.001	<0.001	<0.001				
5/18/2016				<0.001	<0.001	<0.001	<0.001
7/19/2016	<0.001	<0.001	<0.001			<0.001	<0.001
7/20/2016				<0.001	<0.001		
9/13/2016	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
9/14/2016						<0.001	
11/9/2016	<0.001	<0.001	<0.001				<0.001
11/10/2016				<0.001	<0.001		
1/17/2017	<0.001		<0.001				
1/18/2017				<0.001	<0.001		<0.001
1/19/2017		<0.001				<0.001	
3/13/2017	<0.001		<0.001				
3/14/2017		<0.001		<0.001	<0.001	<0.001	<0.001
4/24/2017	<0.001		<0.001				
4/25/2017		<0.001		<0.001	<0.001	<0.001	<0.001
8/8/2017	<0.001	<0.001	<0.001	<0.001			<0.001
8/9/2017					<0.001	<0.001	
3/27/2018	<0.001		<0.001				
3/28/2018		<0.001		<0.001	<0.001	<0.001	<0.001
2/25/2019	<0.001		0.00019 (J)				
2/26/2019		<0.001		<0.001	0.00046 (J)	0.00028 (J)	0.00037 (J)
4/1/2019	<0.001		<0.001				
4/2/2019		<0.001		<0.001	<0.001	<0.001	<0.001
9/16/2019	<0.001					<0.001	<0.001
9/17/2019		<0.001	<0.001		<0.001		
9/18/2019				<0.001			
2/3/2020	<0.001		0.00013 (J)				
2/4/2020				0.00013 (J)	0.00019 (J)	0.00024 (J)	<0.001
2/5/2020		<0.001					
3/16/2020	0.00021 (J)		0.00018 (J)				
3/17/2020		<0.001		0.00019 (J)	0.00016 (J)	<0.001	0.00017 (J)
9/21/2020			<0.001	<0.001	<0.001		
9/22/2020	<0.001	<0.001				<0.001	<0.001
2/2/2021	0.00015 (J)	<0.001	0.00015 (J)	<0.001	<0.001		
2/3/2021						0.00019 (J)	<0.001
3/10/2021		<0.001	0.00019 (J)	<0.001	<0.001	<0.001	
3/11/2021	<0.001						<0.001
8/23/2021			0.00023 (J)				
8/24/2021	<0.001				<0.001	<0.001	<0.001
8/25/2021		<0.001		<0.001			
2/28/2022					<0.001		
3/1/2022	<0.001		<0.001	<0.001		<0.001	<0.001
3/3/2022		<0.001					

Time Series

Constituent: Lead (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001	<0.001					<0.001
5/19/2016			<0.001	<0.001	<0.001		
7/19/2016	<0.001						<0.001
7/20/2016		<0.001	<0.001	<0.001	<0.001		
9/13/2016	<0.001						
9/14/2016		<0.001	<0.001	<0.001	0.00055 (J)		<0.001
11/10/2016	<0.001				0.00047 (J)		<0.001
11/11/2016		<0.001	<0.001	<0.001			
1/18/2017	<0.001						
1/24/2017							<0.001
1/27/2017			<0.001	<0.001	<0.001		
2/6/2017		<0.001					
2/8/2017						<0.001	
2/23/2017						<0.001	
3/14/2017	<0.001						<0.001
3/15/2017		<0.001	<0.001	<0.001	<0.001		
3/17/2017						<0.001	
4/11/2017						<0.001	
4/25/2017	<0.001						<0.001
4/26/2017		<0.001	<0.001	<0.001	<0.001	<0.001	
5/17/2017						<0.001	
6/7/2017						<0.001	
7/11/2017						<0.001	
8/8/2017	<0.001						
8/9/2017					<0.001		<0.001
8/10/2017		<0.001	<0.001	<0.001			
3/28/2018	<0.001						
3/29/2018			<0.001	<0.001	<0.001	<0.001	
3/30/2018		<0.001					<0.001
2/26/2019	<0.001						
2/27/2019		0.00023 (J)	0.00058 (J)	<0.001	0.00068 (J)	<0.001	<0.001
4/2/2019	<0.001						
4/3/2019			<0.001	<0.001	0.00047 (J)	<0.001	
4/4/2019		<0.001					<0.001
9/18/2019	<0.001				0.00045 (J)	<0.001	<0.001
9/19/2019		0.00041 (J)	<0.001	<0.001			
2/5/2020	<0.001	0.00016 (J)	<0.001	<0.001	0.00045 (J)	<0.001	
2/7/2020							<0.001
3/17/2020	<0.001						
3/18/2020		0.00021 (J)	<0.001	<0.001			<0.001
3/19/2020					0.0006 (J)	0.00017 (J)	
9/22/2020	<0.001						
9/23/2020		0.00013 (J)		<0.001			<0.001
9/24/2020			0.00037 (J)		<0.001	0.00018 (J)	
2/2/2021	<0.001						
2/3/2021			<0.001	<0.001			
2/4/2021		0.00019 (J)			0.00038 (J)	0.00013 (J)	0.0003 (J)
3/10/2021	<0.001						
3/11/2021		0.00032 (J)			0.00075 (J)	0.00031 (J)	
3/12/2021			0.00038 (J)	<0.001			<0.001
8/24/2021	<0.001						
8/25/2021			0.00023 (J)	<0.001	0.00025 (J)	0.00041 (J)	

Time Series

Constituent: Lead (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/26/2021		0.00026 (J)					<0.001
3/3/2022	<0.001	0.00025 (J)	<0.001		0.00023 (J)	0.00057 (J)	<0.001
3/4/2022				0.00033 (J)			

Time Series

Constituent: Lead (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.001	<0.001					
7/19/2016	<0.001						
7/20/2016		<0.001					
9/14/2016	<0.001	<0.001					
11/10/2016	<0.001	<0.001					
11/11/2016			<0.001				
1/20/2017		<0.001					
1/24/2017	<0.001						
2/6/2017			<0.001				
3/14/2017		<0.001					
3/15/2017	<0.001		<0.001				
4/11/2017			<0.001				
4/25/2017	<0.001	<0.001					
4/26/2017			<0.001				
6/7/2017			<0.001				
7/11/2017			<0.001				
8/9/2017	<0.001	<0.001					
8/10/2017			<0.001				
3/29/2018	<0.001		<0.001				
3/30/2018		<0.001					
2/26/2019		0.00033 (J)					
2/27/2019	0.00014 (J)						
2/28/2019			<0.001				
4/2/2019			<0.001				
4/4/2019	<0.001	<0.001					
9/18/2019	<0.001	<0.001	<0.001				
2/7/2020	<0.001	<0.001	<0.001				
3/18/2020	<0.001	0.0002 (J)					
5/4/2020			<0.001				
9/23/2020	<0.001	<0.001	<0.001				
2/3/2021			<0.001				
2/4/2021	0.00013 (J)	<0.001					
3/11/2021	<0.001	<0.001	<0.001				
8/25/2021	<0.001	<0.001					
8/26/2021			<0.001	<0.001	<0.001	0.00022 (J)	<0.001
1/11/2022					<0.001	0.00023 (J)	<0.001
1/12/2022				<0.001			
3/3/2022	<0.001		0.0003 (J)		<0.001		
3/4/2022		<0.001		<0.001		0.00036 (J)	<0.001
6/6/2022					<0.001		<0.001
6/7/2022				<0.001		<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			<0.001	<0.001
7/20/2016			<0.001	<0.001
9/14/2016				<0.001
9/15/2016			<0.001	
11/14/2016			<0.001	
2/6/2017			<0.001	
2/9/2017				<0.001
3/15/2017			<0.001	<0.001
4/11/2017				<0.001
4/26/2017			<0.001	<0.001
8/10/2017			<0.001	<0.001
3/29/2018			<0.001	<0.001
2/27/2019			0.00017 (J)	
2/28/2019				0.00014 (J)
4/3/2019			<0.001	<0.001
9/19/2019			<0.001	<0.001
2/5/2020				<0.001
2/7/2020			<0.001	
3/19/2020			0.00016 (J)	<0.001
9/22/2020			0.00013 (J)	
9/23/2020				<0.001
2/3/2021			0.00013 (J)	
2/4/2021				<0.001
3/11/2021			<0.001	
3/12/2021				<0.001
8/26/2021	0.0012	<0.001	0.00014 (J)	<0.001
1/11/2022	0.00082 (J)	<0.001		
3/3/2022	0.00076 (J)		0.00052 (J)	<0.001
3/4/2022		<0.001		
6/6/2022	0.00047 (J)			
6/7/2022		<0.001		

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.05 (O)	<0.05 (O)	<0.05 (O)				
5/18/2016				<0.05 (O)	<0.05 (O)	<0.05 (O)	<0.05 (O)
7/19/2016	<0.005	<0.005	0.005			<0.005	0.0043 (J)
7/20/2016				<0.005	0.0041 (J)		
9/13/2016	<0.005	<0.005	0.0075	<0.005	0.0042 (J)		0.0045 (J)
9/14/2016						<0.005	
11/9/2016	0.0032 (J)	<0.005	0.0078				0.0036 (J)
11/10/2016				<0.005	0.0048 (J)		
1/17/2017	<0.005		0.009				
1/18/2017				<0.005	0.0033 (J)		0.0046 (J)
1/19/2017		<0.005				<0.005	
3/13/2017	<0.005		0.0069				
3/14/2017		<0.005		<0.005	0.0033 (J)	<0.005	0.0038 (J)
4/24/2017	<0.005		0.0049 (J)				
4/25/2017		<0.005		<0.005	0.0037 (J)	<0.005	<0.005
8/8/2017	0.0032 (J)	<0.005	0.0075	<0.005			0.0043 (J)
8/9/2017					0.0042 (J)	<0.005	
3/27/2018	0.0045 (J)		0.0081				
3/28/2018		0.0012 (J)		0.0013 (J)	0.0056	<0.005	0.0064
6/13/2018	0.0033 (J)	<0.005				<0.005	0.0041 (J)
6/14/2018			0.0072	0.0012 (J)	0.0045 (J)		
9/24/2018			0.0082				
9/27/2018	0.0042 (J)						
9/28/2018		0.0013 (J)					
10/2/2018							0.0038 (J)
10/3/2018				0.0012 (J)	0.005	<0.005	
2/25/2019	0.0049 (J)		0.0072				
2/26/2019		<0.005		<0.005	0.0069	<0.005	0.0068
4/1/2019	0.0044 (J)		0.0055				
4/2/2019		0.0012 (J)		<0.005	0.0036 (J)	0.0016 (J)	0.0052
9/16/2019	0.004 (J)					0.028 (O)	0.032 (O)
9/17/2019		<0.005	0.0083		0.0049 (J)		
9/18/2019				<0.005			
2/3/2020	<0.005		0.0085				
2/4/2020				<0.005	0.0055	<0.005	0.0053
2/5/2020		<0.005					
3/16/2020	0.0053		0.0083				
3/17/2020		<0.005		<0.005	0.0059	<0.005	0.0055
9/21/2020			0.0075	<0.005	0.005		
9/22/2020	0.0036 (J)	<0.005				<0.005	0.0049 (J)
2/2/2021	<0.005	<0.005	0.0065	<0.005	0.0039 (J)		
2/3/2021						<0.005	0.0047 (J)
3/10/2021		<0.005	0.0075	<0.005	0.0049 (J)	<0.005	
3/11/2021	0.0039 (J)						0.005
8/23/2021			0.0066				
8/24/2021	<0.005				0.0036 (J)	<0.005	0.0041 (J)
8/25/2021		<0.005		<0.005			
2/28/2022					0.005		
3/1/2022	0.0029 (J)		0.0085	<0.005		<0.005	0.006
3/3/2022		<0.005					

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.05 (O)	0.032					<0.005
5/19/2016			<0.005	<0.005	<0.005		
7/19/2016	<0.005						0.0036 (J)
7/20/2016		0.021	<0.005	0.0057	<0.005		
9/13/2016	<0.005						
9/14/2016		0.02	<0.005	0.0077	<0.005		<0.005
11/10/2016	<0.005				0.0038 (J)		0.0064
11/11/2016		0.017	<0.005	0.007			
1/18/2017	<0.005						
1/24/2017							0.0075
1/27/2017			<0.005	0.0074	<0.005		
2/6/2017		0.016					
2/8/2017						0.0039 (J)	
2/23/2017						<0.005	
3/14/2017	<0.005						0.0057
3/15/2017		0.014	<0.005	0.0077	<0.005		
3/17/2017						<0.005	
4/11/2017						<0.005	
4/25/2017	<0.005						0.0059
4/26/2017		0.011	<0.005	0.0011	<0.005	<0.005	
5/17/2017						0.0033 (J)	
6/7/2017						<0.005	
7/11/2017						<0.005	
8/8/2017	<0.005						
8/9/2017					<0.005		0.0068
8/10/2017		0.011	<0.005	0.0064			
3/28/2018	0.0014 (J)						
3/29/2018			0.0018 (J)	0.01	0.0022 (J)	0.0025 (J)	
3/30/2018		0.016					0.0077
6/14/2018	<0.005	0.0084	0.0011 (J)	0.0062	0.0018 (J)	0.0018 (J)	0.0052
10/3/2018	<0.005						0.006
10/4/2018		0.0085	0.0014 (J)	0.0066	0.0025 (J)	0.0016 (J)	
2/26/2019	<0.005						
2/27/2019		0.0068	<0.005	0.0068	<0.005	<0.005	0.0055
4/2/2019	<0.005						
4/3/2019			<0.005	0.0075	<0.005	0.0015 (J)	
4/4/2019		0.0059					0.0054
9/18/2019	<0.005				<0.005	<0.005	0.0054
9/19/2019		0.0075	<0.005	0.0067			
2/5/2020	<0.005	0.0061	<0.005	0.0063	<0.005	<0.005	
2/7/2020							0.0068
3/17/2020	<0.005						
3/18/2020		0.0071	<0.005	0.0081			0.0086
3/19/2020					<0.005	<0.005	
9/22/2020	<0.005						
9/23/2020		0.0054		0.007			0.0071
9/24/2020			<0.005		<0.005	<0.005	
2/2/2021	<0.005						
2/3/2021			<0.005	0.0075			
2/4/2021		0.0049 (J)			<0.005	<0.005	0.0086
3/10/2021	<0.005						
3/11/2021		0.0051			0.0037 (J)	0.0035 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.005	0.0089			0.0096
8/24/2021	<0.005						
8/25/2021			<0.005	0.0061	<0.005	<0.005	
8/26/2021		0.0044 (J)					0.0059
3/3/2022	<0.005	0.0038 (J)	<0.005		0.0018 (J)	0.0019 (J)	0.0068
3/4/2022				0.0061			

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.005	<0.005					
7/19/2016	0.0091						
7/20/2016		0.0042 (J)					
9/14/2016	0.012	0.0058					
11/10/2016	0.013	0.0066					
11/11/2016			0.045				
1/20/2017		0.0044 (J)					
1/24/2017	0.011						
2/6/2017			0.05				
3/14/2017		0.0048 (J)					
3/15/2017	0.01		0.052				
4/11/2017			0.048				
4/25/2017	0.0081	0.0049 (J)					
4/26/2017			0.044				
6/7/2017			0.047				
7/11/2017			0.045				
8/9/2017	0.013	0.0067					
8/10/2017			0.056				
3/29/2018	0.015		0.072				
3/30/2018		0.0067					
6/14/2018	0.009	0.0046 (J)	0.048				
10/4/2018	0.012	0.005	0.062				
2/26/2019		0.0063					
2/27/2019	0.0075						
2/28/2019			0.045				
4/2/2019			0.052				
4/4/2019	0.0077	0.0042 (J)					
9/18/2019	0.0056	0.0047 (J)	0.052				
2/7/2020	0.0053	0.0045 (J)	0.044				
3/18/2020	0.0057	0.0054					
5/4/2020			0.049				
9/23/2020	0.0059	0.0056	0.056				
2/3/2021			0.06				
2/4/2021	0.0051	0.0047 (J)					
3/8/2021				0.11			
3/9/2021					0.022	0.011	<0.005
3/11/2021	0.005	0.0049 (J)	0.051				
4/7/2021					0.031		<0.005
4/8/2021				0.11		0.0081	
8/25/2021	0.0046 (J)	0.0048 (J)					
8/26/2021			0.057	0.11	0.032	0.011	<0.005
1/11/2022					0.038	0.011	<0.005
1/12/2022				0.15			
3/3/2022	0.0041 (J)		0.057		0.044		
3/4/2022		0.0042 (J)		0.14		0.011	0.0015 (J)
6/6/2022					0.051		0.002 (J)
6/7/2022				0.12		0.0093	

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			0.0215	0.0335
7/20/2016			0.026	0.024
9/14/2016				0.039
9/15/2016			0.057	
11/14/2016			0.017	
2/6/2017			0.012	
2/9/2017				0.04
3/15/2017			0.014	0.035
4/11/2017				0.034
4/26/2017			0.0091	0.029
8/10/2017			0.013	0.038
3/29/2018			0.018	0.048
6/14/2018			0.015	0.034
10/4/2018			0.013	0.039
2/27/2019			0.014	
2/28/2019				0.037
4/3/2019			0.015	0.035
9/19/2019			0.014	0.036
2/5/2020				0.034
2/7/2020			0.014	
3/19/2020			0.015	0.039
9/22/2020			0.013	
9/23/2020				0.033
2/3/2021			0.014	
2/4/2021				0.035
3/8/2021		0.0046 (J)		
3/9/2021	0.0084			
3/11/2021			0.013	
3/12/2021				0.034
4/7/2021	0.0077			
4/8/2021		0.0044 (J)		
8/26/2021	0.0076	0.0044 (J)	0.013	0.03
1/11/2022	0.0091	0.0043 (J)		
3/3/2022	0.0066		0.014	0.03
3/4/2022		0.0035 (J)		
6/6/2022	0.0044 (J)			
6/7/2022		0.004 (J)		

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.0002	<0.0002	<0.0002				
5/18/2016				<0.0002	<0.0002	<0.0002	<0.0002
7/19/2016	<0.0002	8.2E-05 (J)	8.1E-05 (J)			8.5E-05 (J)	8.4E-05 (J)
7/20/2016				7.7E-05 (J)	8.1E-05 (J)		
9/13/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
9/14/2016						<0.0002	
11/9/2016	<0.0002	<0.0002	<0.0002				<0.0002
11/10/2016				0.00015 (J)	0.00016 (J)		
1/17/2017	<0.0002		<0.0002				
1/18/2017				<0.0002	<0.0002		<0.0002
1/19/2017		<0.0002				<0.0002	
3/13/2017	<0.0002		<0.0002				
3/14/2017		7.1E-05 (J)		<0.0002	<0.0002	<0.0002	<0.0002
4/24/2017	<0.0002		<0.0002				
4/25/2017		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
8/8/2017	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002
8/9/2017					<0.0002	<0.0002	
3/27/2018	<0.0002		<0.0002				
3/28/2018		<0.0002		<0.0002	<0.0002	8.9E-05 (J)	<0.0002
6/13/2018	<0.0002	<0.0002				<0.0002	<0.0002
6/14/2018			<0.0002	<0.0002	<0.0002		
9/24/2018			<0.0002				
9/27/2018	<0.0002						
9/28/2018		<0.0002					
10/2/2018							<0.0002
10/3/2018				<0.0002	<0.0002	<0.0002	
2/25/2019	<0.0002		<0.0002				
2/26/2019		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
2/3/2020	<0.0002		<0.0002				
2/4/2020				0.00016 (J)	0.00011 (J)	<0.0002	<0.0002
2/5/2020		<0.0002					
3/16/2020	<0.0002		<0.0002				
3/17/2020		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
9/21/2020			<0.0002	<0.0002	<0.0002		
9/22/2020	<0.0002	<0.0002				<0.0002	<0.0002
2/2/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
2/3/2021						<0.0002	<0.0002
2/28/2022					<0.0002		
3/1/2022	<0.0002		<0.0002	<0.0002		<0.0002	<0.0002
3/3/2022		<0.0002					

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0002	<0.0002					<0.0002
5/19/2016			<0.0002	<0.0002	<0.0002		
7/19/2016	7.2E-05 (J)						9.3E-05 (J)
7/20/2016		8.2E-05 (J)	8.2E-05 (J)	0.00011 (J)	8.1E-05 (J)		
9/13/2016	<0.0002						
9/14/2016		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
11/10/2016	8.7E-05 (J)				8.3E-05 (J)		8.5E-05 (J)
11/11/2016		8.5E-05 (J)	0.00011 (J)	7.9E-05 (J)			
1/18/2017	<0.0002						
1/24/2017							<0.0002
1/27/2017			<0.0002	<0.0002	<0.0002		
2/6/2017		8.3E-05 (J)					
2/8/2017						<0.0002	
2/23/2017						<0.0002	
3/14/2017	<0.0002						7.1E-05 (J)
3/15/2017		0.00013 (J)	<0.0002	0.00018 (J)	<0.0002		
3/17/2017						0.00013 (J)	
4/11/2017						<0.0002	
4/25/2017	<0.0002						<0.0002
4/26/2017		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
5/17/2017						<0.0002	
6/7/2017						<0.0002	
7/11/2017						<0.0002	
8/8/2017	<0.0002						
8/9/2017					<0.0002		<0.0002
8/10/2017		<0.0002	<0.0002	<0.0002			
3/28/2018	<0.0002						
3/29/2018			<0.0002	0.00011 (J)	<0.0002	<0.0002	
3/30/2018		<0.0002					8.6E-05 (J)
6/14/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/3/2018	<0.0002						<0.0002
10/4/2018		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/26/2019	<0.0002						
2/27/2019		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/5/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/7/2020							<0.0002
3/17/2020	<0.0002						
3/18/2020		<0.0002	<0.0002	<0.0002			<0.0002
3/19/2020					<0.0002	<0.0002	
9/22/2020	<0.0002						
9/23/2020		<0.0002		<0.0002			<0.0002
9/24/2020			<0.0002		<0.0002	<0.0002	
2/2/2021	<0.0002						
2/3/2021			<0.0002	<0.0002			
2/4/2021		<0.0002			<0.0002	<0.0002	<0.0002
3/3/2022	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
3/4/2022				<0.0002			

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.0002	<0.0002					
7/19/2016	<0.0002						
7/20/2016		7.4E-05 (J)					
9/14/2016	<0.0002	<0.0002					
11/10/2016	0.00012 (J)	<0.0002					
11/11/2016			7.6E-05 (J)				
1/20/2017		<0.0002					
1/24/2017	7E-05 (J)						
2/6/2017			0.00012 (J)				
3/14/2017		<0.0002					
3/15/2017	<0.0002		<0.0002				
4/11/2017			<0.0002				
4/25/2017	0.00019 (J)	<0.0002					
4/26/2017			<0.0002				
6/7/2017			<0.0002				
7/11/2017			<0.0002				
8/9/2017	<0.0002	<0.0002					
8/10/2017			<0.0002				
3/29/2018	<0.0002		<0.0002				
3/30/2018		<0.0002					
6/14/2018	<0.0002	<0.0002	<0.0002				
10/4/2018	<0.0002	<0.0002	<0.0002				
2/26/2019		<0.0002					
2/27/2019	<0.0002						
2/28/2019			<0.0002				
2/7/2020	<0.0002	<0.0002	<0.0002				
3/18/2020	<0.0002	<0.0002					
5/4/2020			<0.0002				
9/23/2020	<0.0002	<0.0002	<0.0002				
2/3/2021			<0.0002				
2/4/2021	<0.0002	<0.0002					
8/26/2021				0.00033	0.0002	0.00018 (J)	0.00022
1/11/2022					<0.0002	<0.0002	<0.0002
1/12/2022				<0.0002			
3/3/2022	<0.0002		<0.0002		<0.0002		
3/4/2022		<0.0002		<0.0002		<0.0002	<0.0002
6/6/2022					<0.0002		<0.0002
6/7/2022				<0.0002		<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			<0.0002	<0.0002
7/20/2016			<0.0002	<0.0002
9/14/2016				<0.0002
9/15/2016			0.00011 (J)	
11/14/2016			<0.0002	
2/6/2017			7.8E-05 (J)	
2/9/2017				<0.0002
3/15/2017			0.00013 (J)	0.00013 (J)
4/11/2017				<0.0002
4/26/2017			<0.0002	<0.0002
8/10/2017			<0.0002	<0.0002
3/29/2018			<0.0002	<0.0002
6/14/2018			<0.0002	<0.0002
10/4/2018			<0.0002	<0.0002
2/27/2019			<0.0002	
2/28/2019				<0.0002
2/5/2020				<0.0002
2/7/2020			<0.0002	
3/19/2020			<0.0002	<0.0002
9/22/2020			<0.0002	
9/23/2020				<0.0002
2/3/2021			<0.0002	
2/4/2021				<0.0002
8/26/2021	0.00026	0.0019		
1/11/2022	<0.0002	<0.0002		
3/3/2022	<0.0002		<0.0002	<0.0002
3/4/2022		<0.0002		
6/6/2022	<0.0002			
6/7/2022		<0.0002		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.015	0.00367 (J)	<0.015				
5/18/2016				<0.015	<0.015	<0.015	<0.015
7/19/2016	<0.015	0.002 (J)	<0.015			<0.015	<0.015
7/20/2016				<0.015	<0.015		
9/13/2016	<0.015	0.0014 (J)	<0.015	<0.015	<0.015		<0.015
9/14/2016						0.016 (O)	
11/9/2016	<0.015	<0.015	<0.015				<0.015
11/10/2016				<0.015	<0.015		
1/17/2017	<0.015		<0.015				
1/18/2017				<0.015	<0.015		<0.015
1/19/2017		<0.015				<0.015	
3/13/2017	<0.015		<0.015				
3/14/2017		0.0072 (J)		0.00087 (J)	<0.015	<0.015	<0.015
4/24/2017	<0.015		<0.015				
4/25/2017		0.0036 (J)		0.00098 (J)	<0.015	<0.015	<0.015
8/8/2017	0.0017 (J)	<0.015	<0.015	<0.015			<0.015
8/9/2017					<0.015	<0.015	
3/27/2018	<0.015		<0.015				
3/28/2018		0.00089 (J)		<0.015	<0.015	<0.015	<0.015
6/13/2018	<0.015	<0.015				<0.015	<0.015
6/14/2018			<0.015	<0.015	<0.015		
9/24/2018			<0.015				
9/27/2018	<0.015						
9/28/2018		<0.015					
10/2/2018							<0.015
10/3/2018				<0.015	<0.015	<0.015	
2/25/2019	<0.015		<0.015				
2/26/2019		0.0019 (J)		<0.015	<0.015	<0.015	<0.015
4/1/2019	<0.015		<0.015				
4/2/2019		<0.015		<0.015	<0.015	<0.015	<0.015
9/16/2019	<0.015					0.001 (J)	0.001 (J)
9/17/2019		<0.015	<0.015		<0.015		
9/18/2019				<0.015			
2/3/2020	<0.015		<0.015				
2/4/2020				<0.015	<0.015	<0.015	<0.015
2/5/2020		<0.015					
3/16/2020	<0.015		<0.015				
3/17/2020		<0.015		<0.015	<0.015	<0.015	<0.015
9/21/2020			<0.015	<0.015	<0.015		
9/22/2020	<0.015	0.00097 (J)				0.0025 (J)	<0.015
2/2/2021	<0.015	<0.015	<0.015	<0.015	<0.015		
2/3/2021						<0.015	<0.015
3/10/2021		<0.015	<0.015	<0.015	<0.015	<0.015	
3/11/2021	<0.015						<0.015
8/23/2021			<0.015				
8/24/2021	<0.015				<0.015	<0.015	<0.015
8/25/2021		<0.015		<0.015			
2/28/2022					<0.015		
3/1/2022	<0.015		<0.015	<0.015		<0.015	<0.015
3/3/2022		<0.015					

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.015	<0.015					0.0153
5/19/2016			<0.015	<0.015	0.00491 (J)		
7/19/2016	<0.015						0.0093 (J)
7/20/2016		<0.015	<0.015	0.00095 (J)	0.0025 (J)		
9/13/2016	<0.015						
9/14/2016		0.00091 (J)	<0.015	0.0009 (J)	0.0028 (J)		0.012 (J)
11/10/2016	<0.015				0.0016 (J)		0.0065 (J)
11/11/2016		<0.015	<0.015	<0.015			
1/18/2017	0.001 (J)						
1/24/2017							0.0049 (J)
1/27/2017			<0.015	<0.015	0.0023 (J)		
2/6/2017		<0.015					
2/8/2017						<0.015	
2/23/2017						<0.015	
3/14/2017	0.0014 (J)						0.0034 (J)
3/15/2017		<0.015	<0.015	<0.015	0.0022 (J)		
3/17/2017						<0.015	
4/11/2017						<0.015	
4/25/2017	<0.015						0.004 (J)
4/26/2017		<0.015	<0.015	<0.015	0.0019 (J)	<0.015	
5/17/2017						<0.015	
6/7/2017						0.001 (J)	
7/11/2017						<0.015	
8/8/2017	<0.015						
8/9/2017					0.0028 (J)		0.0042 (J)
8/10/2017		0.00093 (J)	0.0011 (J)	0.0046 (J)			
3/28/2018	<0.015						
3/29/2018			<0.015	<0.015	0.0028 (J)	<0.015	
3/30/2018		<0.015					0.0049 (J)
6/14/2018	<0.015	<0.015	<0.015	<0.015	0.0018 (J)	<0.015	0.0056 (J)
10/3/2018	<0.015						0.0041 (J)
10/4/2018		<0.015	<0.015	<0.015	<0.015	<0.015	
2/26/2019	<0.015						
2/27/2019		<0.015	<0.015	0.00063 (J)	0.0019 (J)	<0.015	0.0061
4/2/2019	<0.015						
4/3/2019			<0.015	<0.015	<0.015	<0.015	
4/4/2019		<0.015					0.0039 (J)
9/18/2019	<0.015				0.0021 (J)	<0.015	0.0052
9/19/2019		<0.015	<0.015	0.00073 (J)			
2/5/2020	<0.015	<0.015	<0.015	<0.015	0.0012 (J)	<0.015	
2/7/2020							0.0024 (J)
3/17/2020	<0.015						
3/18/2020		<0.015	<0.015	<0.015			0.002 (J)
3/19/2020					0.0018 (J)	<0.015	
9/22/2020	<0.015						
9/23/2020		<0.015		<0.015			0.0031 (J)
9/24/2020			0.0017 (J)		<0.015	<0.015	
2/2/2021	<0.015						
2/3/2021			<0.015	<0.015			
2/4/2021		<0.015			0.0012 (J)	<0.015	0.0022 (J)
3/10/2021	<0.015						
3/11/2021		<0.015			0.0013 (J)	<0.015	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.015	0.00062 (J)			0.0019 (J)
8/24/2021	<0.015						
8/25/2021			<0.015	<0.015	0.00092 (J)	<0.015	
8/26/2021		<0.015					0.0029 (J)
3/3/2022	<0.015	<0.015	<0.015		0.00094 (J)	<0.015	0.0025 (J)
3/4/2022				<0.015			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.015	0.00526 (J)					
7/19/2016	<0.015						
7/20/2016		0.0066 (J)					
9/14/2016	<0.015	0.0081 (J)					
11/10/2016	<0.015	0.0076 (J)					
11/11/2016			<0.015				
1/20/2017		0.0094 (J)					
1/24/2017	<0.015						
2/6/2017			0.001 (J)				
3/14/2017		0.0044 (J)					
3/15/2017	<0.015		<0.015				
4/11/2017			<0.015				
4/25/2017	<0.015	0.0074 (J)					
4/26/2017			<0.015				
6/7/2017			0.0015 (J)				
7/11/2017			<0.015				
8/9/2017	<0.015	0.0066 (J)					
8/10/2017			0.0016 (J)				
3/29/2018	<0.015		0.0012 (J)				
3/30/2018		0.0024 (J)					
6/14/2018	<0.015	0.0026 (J)	0.0014 (J)				
10/4/2018	<0.015	0.00085 (J)	<0.015				
2/26/2019		0.0032 (J)					
2/27/2019	<0.015						
2/28/2019			0.0013 (J)				
4/2/2019			<0.015				
4/4/2019	<0.015	0.002 (J)					
9/18/2019	<0.015	0.0026 (J)	0.0011 (J)				
2/7/2020	<0.015	0.0025 (J)	0.0014 (J)				
3/18/2020	<0.015	0.0024 (J)					
5/4/2020			0.0013 (J)				
9/23/2020	<0.015	0.0027 (J)	0.0013 (J)				
2/3/2021			0.0013 (J)				
2/4/2021	<0.015	0.0025 (J)					
3/11/2021	<0.015	0.0022 (J)	0.0012 (J)				
8/25/2021	<0.015	0.0022 (J)					
8/26/2021			0.0011 (J)	0.00079 (J)	0.044	<0.015	<0.015
1/11/2022					0.037	<0.015	<0.015
1/12/2022				0.00062 (J)			
3/3/2022	<0.015		0.0013 (J)		0.036		
3/4/2022		0.0021 (J)		<0.015		0.00084 (J)	<0.015
6/6/2022					0.032		<0.015
6/7/2022				<0.015		<0.015	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			<0.015	0.00762 (J)
7/20/2016			<0.015	0.0084 (J)
9/14/2016				0.0071 (J)
9/15/2016			<0.015	
11/14/2016			<0.015	
2/6/2017			<0.015	
2/9/2017				0.018
3/15/2017			<0.015	0.0057 (J)
4/11/2017				0.0047 (J)
4/26/2017			<0.015	0.004 (J)
8/10/2017			<0.015	0.0046 (J)
3/29/2018			<0.015	0.0048 (J)
6/14/2018			<0.015	0.0046 (J)
10/4/2018			<0.015	0.003 (J)
2/27/2019			<0.015	
2/28/2019				0.0053
4/3/2019			<0.015	0.0026 (J)
9/19/2019			<0.015	0.0048 (J)
2/5/2020				0.0044 (J)
2/7/2020			<0.015	
3/19/2020			<0.015	0.0042 (J)
9/22/2020			<0.015	
9/23/2020				0.0027 (J)
2/3/2021			<0.015	
2/4/2021				0.003 (J)
3/11/2021			<0.015	
3/12/2021				0.003 (J)
8/26/2021	<0.015	<0.015	<0.015	0.0028 (J)
1/11/2022	<0.015	<0.015		
3/3/2022	<0.015		<0.015	0.0027 (J)
3/4/2022		<0.015		
6/6/2022	<0.015			
6/7/2022		<0.015		

Time Series

Constituent: pH, Field (S.U.) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	5.24	7.81	6.23				
5/18/2016				5.55	7.23	5.47	7.92
7/18/2016	5.434038						
7/19/2016			6.285413			5.336672	7.154587
7/20/2016				5.656628	7.281557		
9/13/2016	5.22	7.18	6.3	5.63	7.15		7.96
9/14/2016						7.29	
11/9/2016	5.57	6.03	6.26				7.27
11/10/2016				5.61	6.33		
1/17/2017	5.48		6.8				
1/18/2017				5.81	6.94		7.72
1/19/2017		6.71				6.59	
3/13/2017	5.4		6.18				
3/14/2017		6.45		5.53	6.75	5.86	
4/24/2017	5.4		6.35				
4/25/2017		6.93		5.59	6.84	5.35	7.73
8/8/2017	5.32	6.72	6.23	5.52			7.74
8/9/2017					6.67	5.25	
8/25/2017						5.44	
10/10/2017	5.26		6.32				
10/11/2017		6.75		5.51	6.75	6.99	7.71
3/27/2018	5.39		6.14				
3/28/2018		6.84		5.6	6.79	5.95	7.28
6/13/2018	5.33	6.31				5.13	7.78
6/14/2018			6.02	5.58	6.67		
9/24/2018			6.1				
9/27/2018	5.33						
9/28/2018		6.26					
10/2/2018							7.52
10/3/2018				5.45	6.92	5.22	
2/25/2019	5.25		6.02				
2/26/2019		7.66		5.6	6.74	5.21	7.87
4/1/2019	5.31		6.09				
4/2/2019		7.53		5.69	6.81	5.25	7.94
9/16/2019	5.28					6.94	7.55
9/17/2019		6.47	6.25		6.93		
9/18/2019				5.62			
2/3/2020	5.4		6.09				
2/4/2020				5.66	7.29	5.31	7.74
2/5/2020		6.73					
3/16/2020	5.29		6.01				
3/17/2020		6.36		5.61	6.83	5.34	7.96
9/21/2020			6.05	5.35	6.81		
9/22/2020	5.09	7.18				6.78	7.4
2/2/2021	5.36	6.48	6.1	5.78	6.61		
2/3/2021						5.3	7.76
3/10/2021		5.8	6.11	5.49	7.19	5.22	
3/11/2021	5.26						7.93
8/23/2021			6.18				
8/24/2021	5.21				7.22	6.8	7.88
8/25/2021		6.74		5.52			
2/28/2022					7.14		

Time Series

Constituent: pH, Field (S.U.) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
3/1/2022	5.32		6.2	5.59		5.47	7.86
3/3/2022		5.94					

Time Series

Constituent: pH, Field (S.U.) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	5.5	8.96					7.75
5/19/2016			5.93	6.91	6.85		
7/18/2016			5.9661				
7/19/2016	5.43						7.876073
7/20/2016		8.56774		6.962608	6.705264		
9/1/2016				6.96			
9/13/2016	5.57						
9/14/2016					6.7		7.79
11/10/2016	6.93				6.5		7.76
11/11/2016		6.96	6.03	6.76			
1/18/2017	7.16						
1/24/2017							7.71
1/27/2017			6.21	6.66	6.47		
2/6/2017		6.93					
2/8/2017						5.81	
2/23/2017						5.8	
3/14/2017	5.82						7.57
3/15/2017		6.82	5.97	6.3	6.75		
3/17/2017						5.97	
4/11/2017						6.18	
4/25/2017	5.57						7.47
4/26/2017		6.73	6.17	6.67	6.57	6.09	
5/17/2017						6.26	
6/7/2017						6.21	
7/11/2017						6	
8/8/2017	5.6						
8/9/2017					6.55		7.37
8/10/2017		6.66	6.05	6.7			
10/11/2017	5.43					6.97	7.42
10/12/2017		6.67	6.89	6.89	6.67		
3/28/2018	5.29						
3/29/2018			6.85	7.08	6.99	6.51	
3/30/2018		6.98					7.48
6/14/2018	5.39	6.56	5.89	6.73	6.39	5.76	7.5
10/3/2018	5.33						7.11
10/4/2018		6.4	5.81	6.79	6.5	5.97	
2/26/2019	5.62						
2/27/2019		6.23	5.78	6.7	6.47	5.73	7.4
4/2/2019	5.6						
4/3/2019			6.07	6.91	6.47	5.68	
4/4/2019		6.46					7.58
9/18/2019	5.6				6.46	5.5	7.8
9/19/2019		6.45	5.82	6.63			
2/5/2020	5.54	6.42	5.89	6.76	6.44	5.52	
2/7/2020							7.66
3/17/2020	5.32						
3/18/2020		6.4	5.89	6.94			7.73
3/19/2020					6.56	5.49	
9/22/2020	5.36						
9/23/2020		6.14		6.42			7.35
9/24/2020			5.5		6.29	5.16	
2/2/2021	5.84						

Time Series

Constituent: pH, Field (S.U.) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/3/2021			5.21	6.15			
2/4/2021		6.21			6.34	5.76	7.77
3/10/2021	4.96						
3/11/2021		6.56			5.95	5.1	
3/12/2021			5.46	6.66			7.72
8/24/2021	5.53						
8/25/2021			5.66	6.69	6.27	5.39	
8/26/2021		6.31					7.58
3/3/2022	5.49	6.36	5.59		6.31	5.4	7.61
3/4/2022				6.79			

Time Series

Constituent: pH, Field (S.U.) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	6.06	6.41					
7/18/2016	5.884339						
7/20/2016		6.662463					
9/14/2016	5.89	6.7					
11/10/2016	5.6	6.51					
11/11/2016			6.93				
1/20/2017		6.55					
1/24/2017	5.54						
2/6/2017			6.8				
3/14/2017		6.27					
3/15/2017	5.39		6.78				
4/11/2017			6.79				
4/25/2017	5.28	6.26					
4/26/2017			6.82				
6/7/2017			6.76				
7/11/2017			6.99				
8/9/2017	5.46	6.47					
8/10/2017			6.59				
10/11/2017	5.45	6.47					
10/12/2017			6.7				
3/29/2018	5.33		6.88				
3/30/2018		6.71					
6/14/2018	5.35	6.15	6.72				
10/4/2018	5.28	6.14	6.67				
2/26/2019		6.17					
2/27/2019	5.08						
2/28/2019			6.98				
4/2/2019			6.75				
4/4/2019	5.19	6.16					
9/18/2019	5.19	6.17	6.71				
2/7/2020	5.17	6.34	7.08				
3/18/2020	5.08	6.28					
5/4/2020			6.9				
9/23/2020	5.05	5.89	6.59				
2/3/2021			6.75				
2/4/2021	5.42	6.31					
3/8/2021				5.54			
3/9/2021					7.29	5.56	5.81
3/11/2021	5.21	5.96	7.12				
4/7/2021					7.05		5.57
4/8/2021				5.6		6.01	
8/25/2021	5.25	6.09					
8/26/2021			6.66	5.37	6.88	5.4	5.8
1/11/2022					6.68	5.4	5.61
1/12/2022				5.19			
3/3/2022	5.22		6.69		6.88		
3/4/2022		6.21		5.23		5.34	5.74
6/6/2022					6.69		5.73
6/7/2022				5.39		5.41	

Time Series

Constituent: pH, Field (S.U.) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			5.99	6.31
7/20/2016			6.194334	6.345061
9/14/2016				6.33
9/15/2016			6.38	
11/14/2016			5.7	
2/6/2017			5.66	
3/15/2017			5.77	5.99
4/26/2017			5.39	6.03
8/10/2017			5.59	5.86
10/12/2017			5.46	6.09
3/29/2018			5.43	5.89
6/14/2018			5.76	6.47
10/4/2018			5.39	6.17
2/28/2019				6.045 (D)
4/3/2019			5.55	6.1
9/19/2019			5.39	6.38
2/5/2020				6.54
2/7/2020			5.38	
3/19/2020			6.43	6.64
9/22/2020			5.17	
9/23/2020				5.8
2/3/2021			5.08	
2/4/2021				6.22
3/8/2021		5.36		
3/9/2021	4.29			
3/11/2021			5.35	
3/12/2021				5.88
4/7/2021	4.43			
4/8/2021		5.39		
8/26/2021	4.33	5.3	5.36	5.84
1/11/2022	4.39	5.26		
3/3/2022	4.39		5.21	5.86
3/4/2022		5.21		
6/6/2022	4.52			
6/7/2022		5.32		

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.005	<0.005	<0.005				
5/18/2016				<0.005	<0.005	<0.005	<0.005
7/19/2016	<0.005	<0.005	<0.005			<0.005	<0.005
7/20/2016				<0.005	<0.005		
9/13/2016	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
9/14/2016						<0.005	
11/9/2016	<0.005	<0.005	<0.005				<0.005
11/10/2016				<0.005	<0.005		
1/17/2017	<0.005		<0.005				
1/18/2017				<0.005	<0.005		<0.005
1/19/2017		<0.005				<0.005	
3/13/2017	<0.005		<0.005				
3/14/2017		0.0028		0.00026 (J)	<0.005	<0.005	<0.005
4/24/2017	<0.005		<0.005				
4/25/2017		0.0018		0.00035 (J)	<0.005	<0.005	<0.005
8/8/2017	0.0013	<0.005	<0.005	<0.005			<0.005
8/9/2017					<0.005	<0.005	
3/27/2018	0.00055 (J)		<0.005				
3/28/2018		<0.005		<0.005	<0.005	<0.005	<0.005
6/13/2018	<0.005	<0.005				0.00025 (J)	<0.005
6/14/2018			<0.005	<0.005	0.00032 (J)		
9/24/2018			<0.005				
9/27/2018	<0.005						
9/28/2018		<0.005					
10/2/2018							<0.005
10/3/2018				<0.005	<0.005	<0.005	
2/25/2019	<0.005		<0.005				
2/26/2019		<0.005		<0.005	<0.005	<0.005	<0.005
4/1/2019	<0.005		<0.005				
4/2/2019		<0.005		<0.005	<0.005	<0.005	<0.005
9/16/2019	<0.005					<0.005	<0.005
9/17/2019		<0.005	<0.005		<0.005		
9/18/2019				<0.005			
2/3/2020	<0.005		<0.005				
2/4/2020				<0.005	<0.005	<0.005	<0.005
2/5/2020		<0.005					
3/16/2020	<0.005		0.0026 (J)				
3/17/2020		<0.005		<0.005	<0.005	<0.005	<0.005
9/21/2020			<0.005	<0.005	<0.005		
9/22/2020	<0.005	<0.005				<0.005	<0.005
2/2/2021	<0.005	<0.005	<0.005	<0.005	<0.005		
2/3/2021						<0.005	<0.005
3/10/2021		<0.005	<0.005	<0.005	<0.005	<0.005	
3/11/2021	<0.005						<0.005
8/23/2021			<0.005				
8/24/2021	<0.005				<0.005	<0.005	<0.005
8/25/2021		<0.005		<0.005			
2/28/2022					<0.005		
3/1/2022	<0.005		<0.005	<0.005		<0.005	<0.005
3/3/2022		<0.005					

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.005	<0.005					<0.005
5/19/2016			<0.005	<0.005	<0.005		
7/19/2016	<0.005						<0.005
7/20/2016		<0.005	<0.005	<0.005	<0.005		
9/13/2016	<0.005						
9/14/2016		<0.005	<0.005	<0.005	<0.005		<0.005
11/10/2016	<0.005				<0.005		<0.005
11/11/2016		<0.005	<0.005	<0.005			
1/18/2017	<0.005						
1/24/2017							<0.005
1/27/2017			<0.005	<0.005	<0.005		
2/6/2017		<0.005					
2/8/2017						<0.005	
2/23/2017						<0.005	
3/14/2017	<0.005						<0.005
3/15/2017		<0.005	<0.005	<0.005	<0.005		
3/17/2017						<0.005	
4/11/2017						<0.005	
4/25/2017	<0.005						<0.005
4/26/2017		<0.005	<0.005	<0.005	<0.005	<0.005	
5/17/2017						<0.005	
6/7/2017						<0.005	
7/11/2017						<0.005	
8/8/2017	<0.005						
8/9/2017					<0.005		<0.005
8/10/2017		0.00031 (J)	0.00049 (J)	0.0021			
3/28/2018	<0.005						
3/29/2018			<0.005	<0.005	<0.005	0.0003 (J)	
3/30/2018		<0.005					<0.005
6/14/2018	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0005 (J)
10/3/2018	<0.005						<0.005
10/4/2018		<0.005	<0.005	<0.005	<0.005	<0.005	
2/26/2019	<0.005						
2/27/2019		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
4/2/2019	<0.005						
4/3/2019			<0.005	<0.005	<0.005	<0.005	
4/4/2019		<0.005					<0.005
9/18/2019	<0.005				<0.005	<0.005	<0.005
9/19/2019		<0.005	<0.005	<0.005			
2/5/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2/7/2020							<0.005
3/17/2020	<0.005						
3/18/2020		<0.005	<0.005	<0.005			<0.005
3/19/2020					<0.005	<0.005	
9/22/2020	<0.005						
9/23/2020		<0.005		<0.005			<0.005
9/24/2020			<0.005		<0.005	<0.005	
2/2/2021	<0.005						
2/3/2021			<0.005	<0.005			
2/4/2021		<0.005			<0.005	<0.005	<0.005
3/10/2021	<0.005						
3/11/2021		<0.005			<0.005	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.005	<0.005			<0.005
8/24/2021	<0.005						
8/25/2021			<0.005	<0.005	<0.005	<0.005	
8/26/2021		<0.005					<0.005
3/3/2022	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
3/4/2022				<0.005			

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	0.00735	<0.005					
7/19/2016	0.0075						
7/20/2016		<0.005					
9/14/2016	0.0091	<0.005					
11/10/2016	0.0056	<0.005					
11/11/2016			<0.005				
1/20/2017		<0.005					
1/24/2017	0.012						
2/6/2017			<0.005				
3/14/2017		<0.005					
3/15/2017	0.012		<0.005				
4/11/2017			<0.005				
4/25/2017	0.013	<0.005					
4/26/2017			<0.005				
6/7/2017			<0.005				
7/11/2017			<0.005				
8/9/2017	0.016	<0.005					
8/10/2017			0.00036 (J)				
3/29/2018	0.016		<0.005				
3/30/2018		<0.005					
6/14/2018	0.012	<0.005	<0.005				
10/4/2018	0.013	<0.005	<0.005				
2/26/2019		<0.005					
2/27/2019	0.0081						
2/28/2019			<0.005				
4/2/2019			<0.005				
4/4/2019	0.0091	<0.005					
9/18/2019	0.0044 (J)	<0.005	<0.005				
2/7/2020	0.0036 (J)	<0.005	<0.005				
3/18/2020	0.0046 (J)	<0.005					
5/4/2020			<0.005				
9/23/2020	0.0028 (J)	<0.005	<0.005				
2/3/2021			<0.005				
2/4/2021	0.0023 (J)	<0.005					
3/11/2021	0.0023 (J)	<0.005	<0.005				
8/25/2021	0.0019 (J)	<0.005					
8/26/2021			<0.005	0.0016 (J)	<0.005	0.0049 (J)	0.002 (J)
1/11/2022					<0.005	0.0065	0.0024 (J)
1/12/2022				<0.005			
3/3/2022	0.0018 (J)		<0.005		<0.005		
3/4/2022		<0.005		0.0014 (J)		0.0072	0.002 (J)
6/6/2022					<0.005		0.0018 (J)
6/7/2022				0.0014 (J)		0.0047 (J)	

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			0.00518	0.00228
7/20/2016			0.0038	0.0016
9/14/2016				0.0024
9/15/2016			0.0034	
11/14/2016			0.0033	
2/6/2017			0.0033	
2/9/2017				0.0023
3/15/2017			0.003	0.0031
4/11/2017				0.0023
4/26/2017			0.0032	0.0019
8/10/2017			0.0031	0.0021
3/29/2018			0.0034	0.0021
6/14/2018			0.0031	0.0025
10/4/2018			0.0033	0.002
2/27/2019			0.0035	
2/28/2019				0.0027
4/3/2019			0.0031	0.0019
9/19/2019			0.0021 (J)	0.0026 (J)
2/5/2020				0.0033 (J)
2/7/2020			0.0048 (J)	
3/19/2020			0.0037 (J)	0.0033 (J)
9/22/2020			0.0039 (J)	
9/23/2020				0.0029 (J)
2/3/2021			0.0036 (J)	
2/4/2021				0.003 (J)
3/11/2021			0.0038 (J)	
3/12/2021				0.0034 (J)
8/26/2021	<0.005	<0.005	0.0037 (J)	0.0028 (J)
1/11/2022	<0.005	<0.005		
3/3/2022	0.00077 (J)		0.0038 (J)	0.0021 (J)
3/4/2022		<0.005		
6/6/2022	<0.005			
6/7/2022		<0.005		

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<1	19.9	1.14				
5/18/2016				0.821 (J)	5.32	0.955 (J)	8.88
7/19/2016	<1	14	1.4			0.76 (J)	9
7/20/2016				0.82 (J)	6.5		
9/13/2016	<1	11	1.1	0.81 (J)	5.6		8.5
9/14/2016						3.4	
11/9/2016	<1	6.3	1.1				8.2
11/10/2016				0.73 (J)	5.4		
1/17/2017	<1		2.1				
1/18/2017				0.99 (J)	5.1		9.4
1/19/2017		7.4				21	
3/13/2017	<1		0.97 (J)				
3/14/2017		10		0.83 (J)	4.6	1.4	2
4/24/2017	<1		0.75 (J)				
4/25/2017		10		0.7 (J)	6.6	0.89 (J)	8.2
8/8/2017	<1	12	1.1	0.82 (J)			8.5
8/9/2017					7.3	0.75 (J)	
10/10/2017	<1		1.3				
10/11/2017		11		0.72 (J)	6.8	<1	8.3
6/13/2018	<1	8.2				<1	8.3
6/14/2018			0.84 (J)	<1	6.9		
9/24/2018			0.79 (J)				
9/27/2018	<1						
9/28/2018		7.6					
10/2/2018							8.3
10/3/2018				0.73 (J)	7	<1	
4/1/2019	<1		1				
4/2/2019		11		1.1	8.1	0.94 (J)	8.5
9/16/2019	0.49 (J)					2.2	8.9
9/17/2019		8	1.3		8.1		
9/18/2019				0.78 (J)			
3/16/2020	0.42 (J)		1.3				
3/17/2020		8.5		1.2	12	4	12
9/21/2020			1.1	0.77 (J)	7.7		
9/22/2020	<1	9				1.5	8
3/10/2021		7.1	0.9 (J)	0.91 (J)	8.1	<1	
3/11/2021	<1						8.4
8/23/2021			1.3				
8/24/2021	<1				7.9	2.8	8.9
8/25/2021		8.2		0.79 (J)			
2/28/2022					8.4		
3/1/2022	<1		1.6	0.98 (J)		0.99 (J)	9.2
3/3/2022		8.5					

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.368 (J)	2.84					50.7
5/19/2016			1.83	15.8	19.2		
7/19/2016	<1						62
7/20/2016		2.8	1.6	16	11		
9/13/2016	<1						
9/14/2016		2.8	1.5	16	8.6		79
11/10/2016	<1				5.7		61
11/11/2016		2.6	1.4	14			
1/18/2017	1.4						
1/24/2017							34
1/27/2017			2.5	15	6.8		
2/6/2017		2.7					
2/8/2017						4.3	
2/23/2017						16	
3/14/2017	<1						43
3/15/2017		2.7	2.5	17	11		
3/17/2017						22	
4/11/2017						13	
4/25/2017	<1						39
4/26/2017		2.5	2.2	15	8.1	20	
5/17/2017						12	
6/7/2017						8.1	
7/11/2017						17	
8/8/2017	<1						
8/9/2017					8.1		35
8/10/2017		2.2	2.3	16			
10/11/2017	<1					3.4	48
10/12/2017		1.9	1.9	14	6.1		
6/14/2018	<1	2	1.7	14	5	5.8	44
10/3/2018	<1						49
10/4/2018		1.9	1.6	14	4.3	2.8	
4/2/2019	0.4 (J)						
4/3/2019			1.9	13	3.8	3.8	
4/4/2019		2.2					41
9/18/2019	<1				3.9	1.7	37
9/19/2019		2.1	1.3	14			
3/17/2020	0.86 (J)						
3/18/2020		2.1	1.6	12			17
3/19/2020					4	1.5	
9/22/2020	0.38 (J)						
9/23/2020		1.8		12			21
9/24/2020			2.7		0.63 (J)	1.2	
3/10/2021	<1						
3/11/2021		2.8			2.9	1.7	
3/12/2021			2	14			19
8/24/2021	<1						
8/25/2021			1.1	13	1.8	<1	
8/26/2021		1.8					16
3/3/2022	<1	2	2.3		3	1.3	18
3/4/2022				14			

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	388	32.1					
7/19/2016	460						
7/20/2016		9.7					
9/14/2016	500	6.6					
11/10/2016	530	5.2					
11/11/2016			3.4				
1/20/2017		5.3					
1/24/2017	600						
2/6/2017			3.7				
3/14/2017		9.6					
3/15/2017	610		3.6				
4/11/2017			3.2				
4/25/2017	620	20					
4/26/2017			3.3				
6/7/2017			3.8				
7/11/2017			3.3				
8/9/2017	780	6.5					
8/10/2017			3.7				
10/11/2017	720	13					
10/12/2017			3.6				
6/14/2018	620	16	3.5				
10/4/2018	560	15	4.6				
4/2/2019			3.8				
4/4/2019	250	9.1					
9/18/2019	130	7.3	3.6				
3/18/2020	120	4.2					
5/4/2020			4.5				
9/23/2020	85	4.4	3				
3/8/2021				240			
3/9/2021					230	80	14
3/11/2021	64	3.9	4				
4/7/2021					190		5.1
4/8/2021				240		60	
8/25/2021	63	3.3					
8/26/2021			3.5	290	190	100	7.5
1/11/2022					260	140	5.3
1/12/2022				360			
3/3/2022	57		4.8		250		
3/4/2022		3.6		390		150	5
6/6/2022					140		5.3
6/7/2022				280		96	

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			146	35.9
7/20/2016			150	37
9/14/2016				39
9/15/2016			140	
11/14/2016			160	
2/6/2017			180	
2/9/2017				60
3/15/2017			170	44
4/11/2017				36
4/26/2017			180	37
8/10/2017			180	38
10/12/2017			180	37
6/14/2018			170	37
10/4/2018			780	38
4/3/2019			180	41
9/19/2019			190	42
3/19/2020			200	45
9/22/2020			200	
9/23/2020				54
3/8/2021		4.7		
3/9/2021	140			
3/11/2021			220	
3/12/2021				62
4/7/2021	160			
4/8/2021		5.8		
8/26/2021	170	13	220	52
1/11/2022	160	21		
3/3/2022	130		250	58
3/4/2022		21		
6/6/2022	67			
6/7/2022		22		

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<0.001	<0.001	<0.001				
5/18/2016				<0.001	<0.001	<0.001	<0.001
7/19/2016	<0.001	<0.001	<0.001			<0.001	<0.001
7/20/2016				<0.001	<0.001		
9/13/2016	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
9/14/2016						9E-05 (J)	
11/9/2016	<0.001	<0.001	<0.001				<0.001
11/10/2016				<0.001	<0.001		
1/17/2017	<0.001		<0.001				
1/18/2017				<0.001	<0.001		<0.001
1/19/2017		<0.001				<0.001	
3/13/2017	<0.001		<0.001				
3/14/2017		<0.001		<0.001	<0.001	<0.001	<0.001
4/24/2017	<0.001		<0.001				
4/25/2017		<0.001		<0.001	<0.001	<0.001	<0.001
8/8/2017	<0.001	<0.001	<0.001	<0.001			<0.001
8/9/2017					<0.001	<0.001	
3/27/2018	<0.001		<0.001				
3/28/2018		<0.001		<0.001	<0.001	<0.001	<0.001
6/13/2018	<0.001	<0.001				<0.001	<0.001
6/14/2018			<0.001	<0.001	<0.001		
9/24/2018			<0.001				
9/27/2018	<0.001						
9/28/2018		<0.001					
10/2/2018							<0.001
10/3/2018				<0.001	<0.001	<0.001	
2/25/2019	<0.001		<0.001				
2/26/2019		<0.001		<0.001	<0.001	<0.001	<0.001
4/1/2019	<0.001		<0.001				
4/2/2019		<0.001		<0.001	<0.001	<0.001	<0.001
9/16/2019	0.00016 (J)					<0.001	0.00062 (J)
9/17/2019		<0.001	<0.001		<0.001		
9/18/2019				<0.001			
2/3/2020	<0.001		0.0002 (J)				
2/4/2020				<0.001	<0.001	<0.001	<0.001
2/5/2020		<0.001					
3/16/2020	0.00036 (J)		0.0003 (J)				
3/17/2020		<0.001		<0.001	<0.001	<0.001	<0.001
9/21/2020			<0.001	<0.001	<0.001		
9/22/2020	<0.001	<0.001				<0.001	<0.001
2/2/2021	<0.001	<0.001	0.0004 (J)	<0.001	<0.001		
2/3/2021						0.00042 (J)	<0.001
3/10/2021		<0.001	0.00073 (J)	0.00028 (J)	0.00017 (J)	<0.001	
3/11/2021	0.00045 (J)						<0.001
8/23/2021			<0.001				
8/24/2021	<0.001				<0.001	<0.001	<0.001
8/25/2021		<0.001		<0.001			
2/28/2022					<0.001		
3/1/2022	<0.001		<0.001	<0.001		<0.001	<0.001
3/3/2022		<0.001					

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/12/2022 9:17 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001	<0.001					<0.001
5/19/2016			<0.001	<0.001	<0.001		
7/19/2016	<0.001						<0.001
7/20/2016		<0.001	<0.001	<0.001	<0.001		
9/13/2016	<0.001						
9/14/2016		<0.001	<0.001	<0.001	<0.001		<0.001
11/10/2016	<0.001				<0.001		<0.001
11/11/2016		<0.001	<0.001	<0.001			
1/18/2017	<0.001						
1/24/2017							<0.001
1/27/2017			<0.001	<0.001	<0.001		
2/6/2017		<0.001					
2/8/2017						0.00011 (J)	
2/23/2017						0.00012 (J)	
3/14/2017	<0.001						<0.001
3/15/2017		<0.001	<0.001	<0.001	<0.001		
3/17/2017						<0.001	
4/11/2017						<0.001	
4/25/2017	<0.001						<0.001
4/26/2017		<0.001	<0.001	<0.001	<0.001	<0.001	
5/17/2017						<0.001	
6/7/2017						<0.001	
7/11/2017						<0.001	
8/8/2017	<0.001						
8/9/2017					<0.001		<0.001
8/10/2017		<0.001	<0.001	<0.001			
3/28/2018	<0.001						
3/29/2018			<0.001	<0.001	<0.001	0.0002 (J)	
3/30/2018		8.5E-05 (J)					<0.001
6/14/2018	<0.001	<0.001	<0.001	<0.001	<0.001	0.00014 (J)	<0.001
10/3/2018	<0.001						<0.001
10/4/2018		<0.001	<0.001	<0.001	<0.001	0.00013 (J)	
2/26/2019	<0.001						
2/27/2019		<0.001	<0.001	<0.001	<0.001	0.00016 (J)	<0.001
4/2/2019	<0.001						
4/3/2019			<0.001	<0.001	<0.001	0.00012 (J)	
4/4/2019		<0.001					<0.001
9/18/2019	<0.001				<0.001	<0.001	<0.001
9/19/2019		<0.001	<0.001	<0.001			
2/5/2020	0.00026 (J)	<0.001	<0.001	<0.001	<0.001	0.00022 (J)	
2/7/2020							<0.001
3/17/2020	<0.001						
3/18/2020		<0.001	<0.001	<0.001			<0.001
3/19/2020					<0.001	0.00017 (J)	
9/22/2020	<0.001						
9/23/2020		<0.001		<0.001			<0.001
9/24/2020			<0.001		<0.001	<0.001	
2/2/2021	<0.001						
2/3/2021			0.00016 (J)	<0.001			
2/4/2021		<0.001			<0.001	0.00021 (J)	<0.001
3/10/2021	<0.001						
3/11/2021		<0.001			<0.001	0.00019 (J)	

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
3/12/2021			<0.001	<0.001			<0.001
8/24/2021	<0.001						
8/25/2021			<0.001	<0.001	<0.001	<0.001	
8/26/2021		<0.001					<0.001
3/3/2022	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
3/4/2022				<0.001			

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/12/2022 9:17 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	<0.001	<0.001					
7/19/2016	8.5E-05 (J)						
7/20/2016		<0.001					
9/14/2016	0.00017 (J)	<0.001					
11/10/2016	0.00017 (J)	<0.001					
11/11/2016			<0.001				
1/20/2017		<0.001					
1/24/2017	0.00023 (J)						
2/6/2017			<0.001				
3/14/2017		<0.001					
3/15/2017	0.00021 (J)		<0.001				
4/11/2017			<0.001				
4/25/2017	0.00024 (J)	<0.001					
4/26/2017			<0.001				
6/7/2017			<0.001				
7/11/2017			<0.001				
8/9/2017	0.0002 (J)	<0.001					
8/10/2017			<0.001				
3/29/2018	0.00019 (J)		<0.001				
3/30/2018		<0.001					
6/14/2018	0.00017 (J)	<0.001	<0.001				
10/4/2018	0.00015 (J)	<0.001	<0.001				
2/26/2019		<0.001					
2/27/2019	0.00015 (J)						
2/28/2019			<0.001				
4/2/2019			<0.001				
4/4/2019	9.5E-05 (J)	<0.001					
9/18/2019	<0.001	<0.001	<0.001				
2/7/2020	<0.001	<0.001	<0.001				
3/18/2020	<0.001	<0.001					
5/4/2020			<0.001				
9/23/2020	<0.001	<0.001	<0.001				
2/3/2021			0.00018 (J)				
2/4/2021	<0.001	<0.001					
3/11/2021	<0.001	<0.001	<0.001				
8/25/2021	<0.001	<0.001					
8/26/2021			<0.001	<0.001	<0.001	<0.001	<0.001
1/11/2022					<0.001	<0.001	<0.001
1/12/2022				<0.001			
3/3/2022	<0.001		<0.001		<0.001		
3/4/2022		<0.001		<0.001		0.00047 (J)	<0.001
6/6/2022					<0.001		<0.001
6/7/2022				<0.001		<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			<0.001	<0.001
7/20/2016			<0.001	<0.001
9/14/2016				<0.001
9/15/2016			<0.001	
11/14/2016			<0.001	
2/6/2017			<0.001	
2/9/2017				<0.001
3/15/2017			<0.001	<0.001
4/11/2017				<0.001
4/26/2017			<0.001	<0.001
8/10/2017			<0.001	<0.001
3/29/2018			<0.001	<0.001
6/14/2018			<0.001	<0.001
10/4/2018			<0.001	<0.001
2/27/2019			<0.001	
2/28/2019				<0.001
4/3/2019			<0.001	<0.001
9/19/2019			<0.001	<0.001
2/5/2020				<0.001
2/7/2020			<0.001	
3/19/2020			<0.001	<0.001
9/22/2020			<0.001	
9/23/2020				<0.001
2/3/2021			<0.001	
2/4/2021				<0.001
3/11/2021			<0.001	
3/12/2021				<0.001
8/26/2021	0.00072 (J)	<0.001	<0.001	<0.001
1/11/2022	0.00062 (J)	<0.001		
3/3/2022	0.0006 (J)		<0.001	<0.001
3/4/2022		<0.001		
6/6/2022	0.00052 (J)			
6/7/2022		<0.001		

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)	WGWA-6 (bg)
5/17/2016	<10	112	100				
5/18/2016				29	101	33	113
7/19/2016	14	80	84			<10	92
7/20/2016				<10	86		
9/13/2016	50	120	70	12	28		100
9/14/2016						150	
11/9/2016	22	76	110				130
11/10/2016				30	110		
1/17/2017	8		120				
1/18/2017				22	98		120
1/19/2017		36				34	
3/13/2017	<10		58				
3/14/2017		70		22	110	32	110
4/24/2017	10		94				
4/25/2017		70		22	86	22	100
8/8/2017	<10	72	62	4 (J)			90
8/9/2017					92	20	
10/10/2017	44		140				
10/11/2017		90		10	110	4 (J)	98
6/13/2018	24	38				<10	110
6/14/2018			80	26	92		
9/24/2018			76				
9/27/2018	28						
9/28/2018		68					
10/2/2018							130
10/3/2018				50	100	24	
4/1/2019	<10		63				
4/2/2019		100		28	100	25	110
9/16/2019	27					41	110
9/17/2019		76	120		120		
9/18/2019				36			
3/16/2020	23		90				
3/17/2020		81		20	100	18	120
9/21/2020			100	22	92		
9/22/2020	24	96				190	130
3/10/2021		72	100	20	100	19	
3/11/2021	24						110
8/23/2021			110				
8/24/2021	32				110	150	120
8/25/2021		92		21			
2/28/2022					95		
3/1/2022	30		92	31		23	140
3/3/2022		43					

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	31	70					190
5/19/2016			39	101	127		
7/19/2016	<10						180
7/20/2016		42	<10	76	88		
9/13/2016	<10						
9/14/2016		40	24	96	92		230
11/10/2016	44				100		210
11/11/2016		72	42	100			
1/18/2017	50						
1/24/2017							140
1/27/2017			18	50	80		
2/6/2017		24					
2/8/2017						54	
2/23/2017						78	
3/14/2017	26						220
3/15/2017		78	54	120	100		
3/17/2017						56	
4/11/2017						76	
4/25/2017	10						180
4/26/2017		48	42	100	92	76	
5/17/2017						68	
6/7/2017						72	
7/11/2017						68	
8/8/2017	<10						
8/9/2017					120		180
8/10/2017		38	30	96			
10/11/2017	42					68	200
10/12/2017		72	54	100	110		
6/14/2018	14	40	16	94	88	52	170
10/3/2018	6						260
10/4/2018		60	56	110	100	130	
4/2/2019	15						
4/3/2019			<10	66	72	31	
4/4/2019		30					170
9/18/2019	35				110	33	160
9/19/2019		52	27	89			
3/17/2020	19						
3/18/2020		58	26	73			160
3/19/2020					95	18	
9/22/2020	15						
9/23/2020		50		90			150
9/24/2020			60		21	24	
3/10/2021	20						
3/11/2021		52			63	24	
3/12/2021			27	78			130
8/24/2021	24						
8/25/2021			32	110	53	30	
8/26/2021		60					150
3/3/2022	17	45	21		71	17	140
3/4/2022				89			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23
5/18/2016	1080	107					
7/19/2016	1200						
7/20/2016		78					
9/14/2016	1300	82					
11/10/2016	1400	98					
11/11/2016			98				
1/20/2017		82					
1/24/2017	1300						
2/6/2017			36				
3/14/2017		120					
3/15/2017	1500		120				
4/11/2017			68				
4/25/2017	1700	120					
4/26/2017			76				
6/7/2017			74				
7/11/2017			70				
8/9/2017	1900	92					
8/10/2017			66				
10/11/2017	1900	74					
10/12/2017			100				
6/14/2018	1500	100	74				
10/4/2018	1700	98	100				
4/2/2019			88				
4/4/2019	710	89					
9/18/2019	520	79	96				
3/18/2020	370	98					
5/4/2020			110				
9/23/2020	250	60	94				
3/8/2021				590			
3/9/2021					610	200	79
3/11/2021	190	75	100				
4/7/2021					520		66
4/8/2021				540		170	
8/25/2021	220	84					
8/26/2021			94	720	480	240	88
1/11/2022					580	270	67
1/12/2022				1200			
3/3/2022	170		98		580		
3/4/2022		55		1100		260	69
6/6/2022					670		90
6/7/2022				920		210	

Time Series

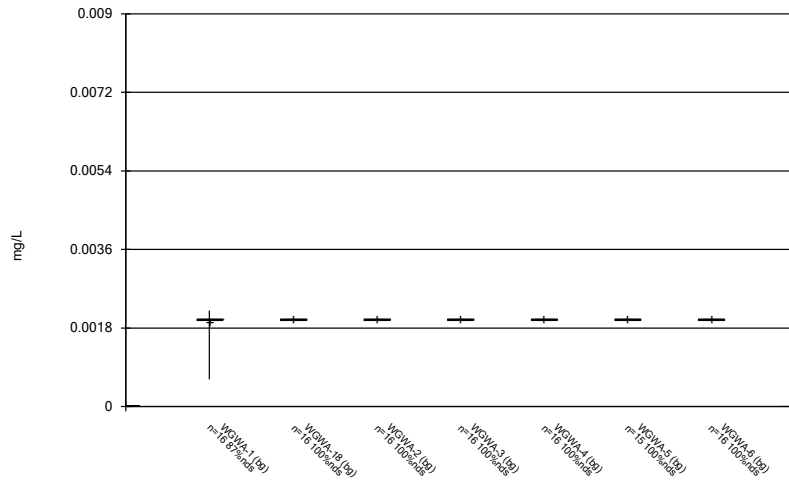
Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 7/12/2022 9:17 AM

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-8	WGWC-9
5/19/2016			311	134
7/20/2016			290	120
9/14/2016				140
9/15/2016			270	
11/14/2016			320	
2/6/2017			330	
2/9/2017				180
3/15/2017			370	160
4/11/2017				120
4/26/2017			380	140
8/10/2017			380	130
10/12/2017			450	120
6/14/2018			410	120
10/4/2018			520	140
4/3/2019			430	120
9/19/2019			440	130
3/19/2020			540	160
9/22/2020			600	
9/23/2020				150
3/8/2021		220		
3/9/2021	370			
3/11/2021			530	
3/12/2021				130
4/7/2021	510			
4/8/2021		180		
8/26/2021	420	200	550	170
1/11/2022	320	220		
3/3/2022	280		530	140
3/4/2022		200		
6/6/2022	210			
6/7/2022		240		

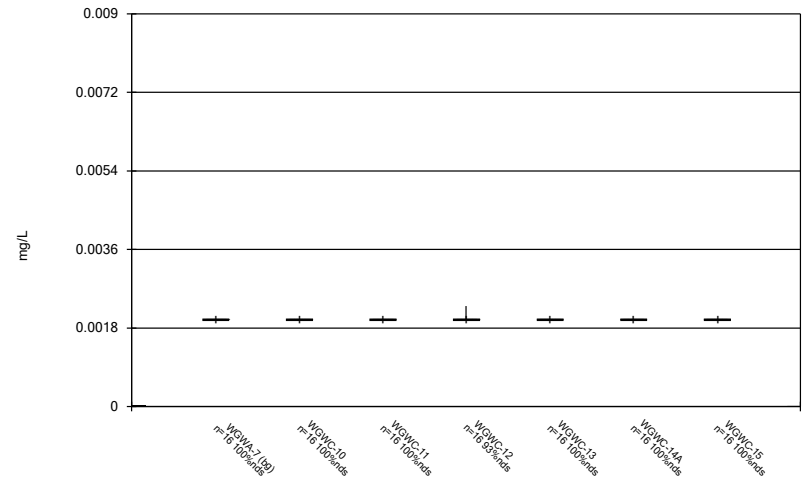
FIGURE B.

Box & Whiskers Plot



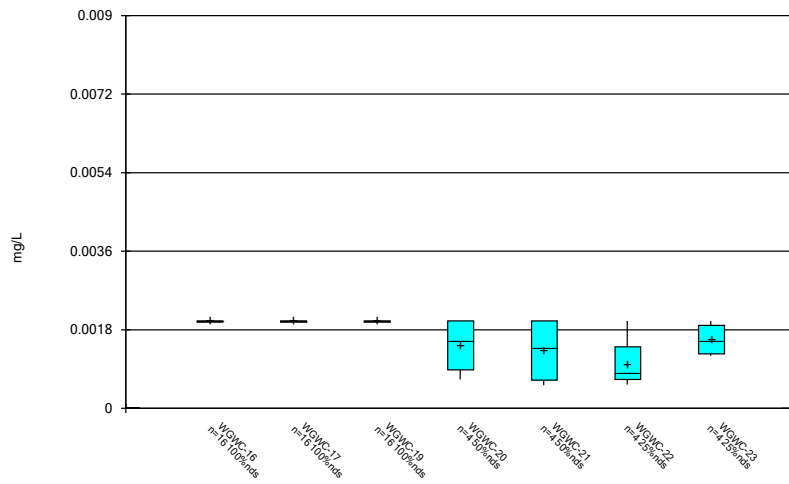
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



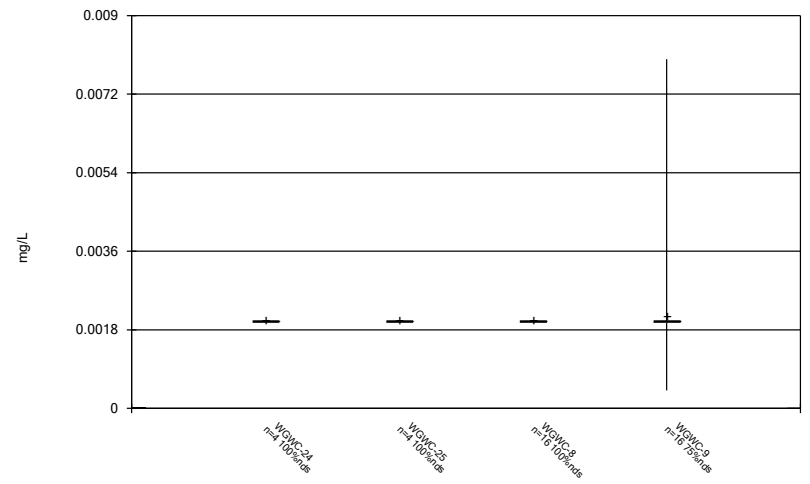
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



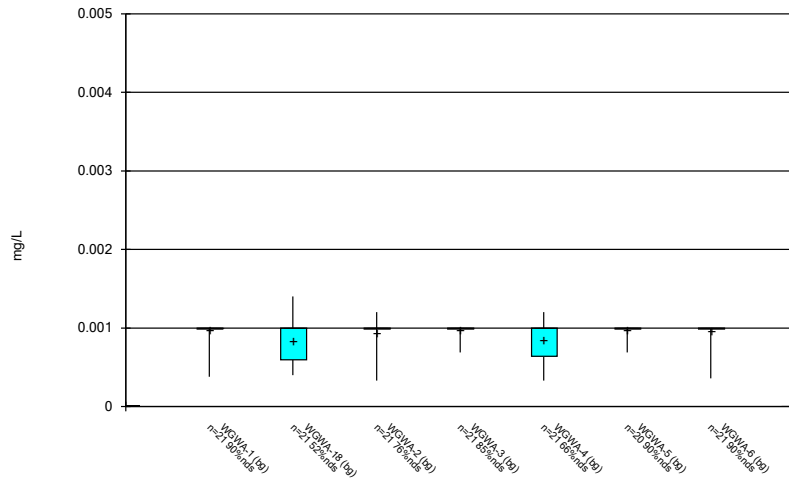
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



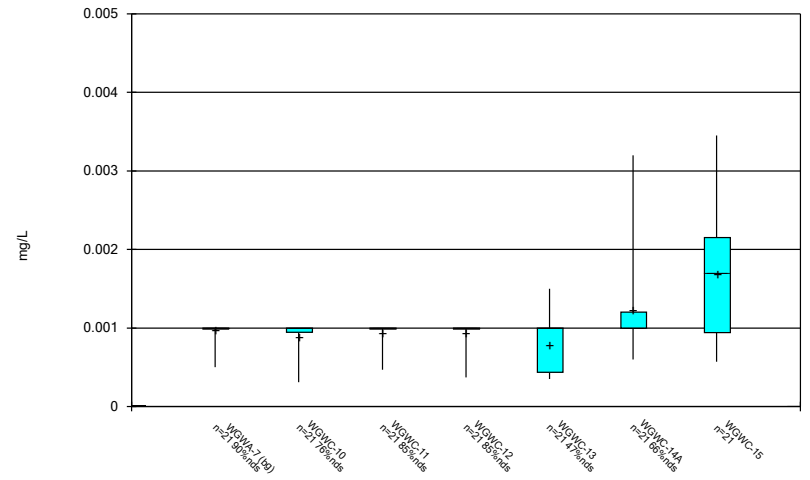
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



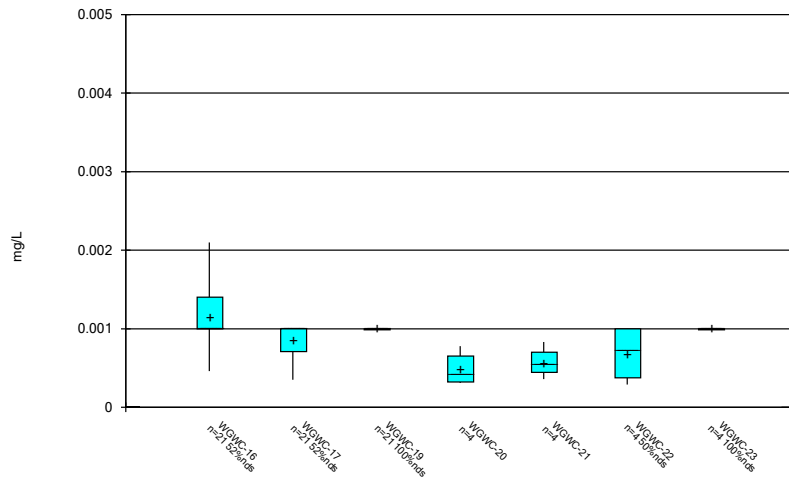
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



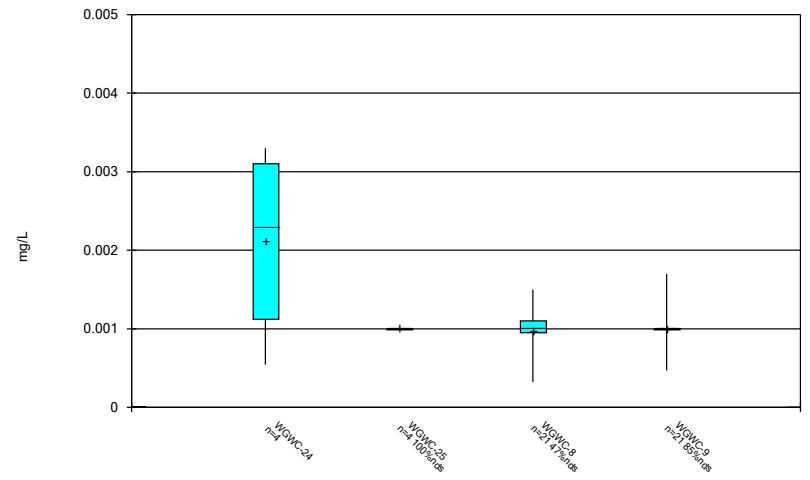
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



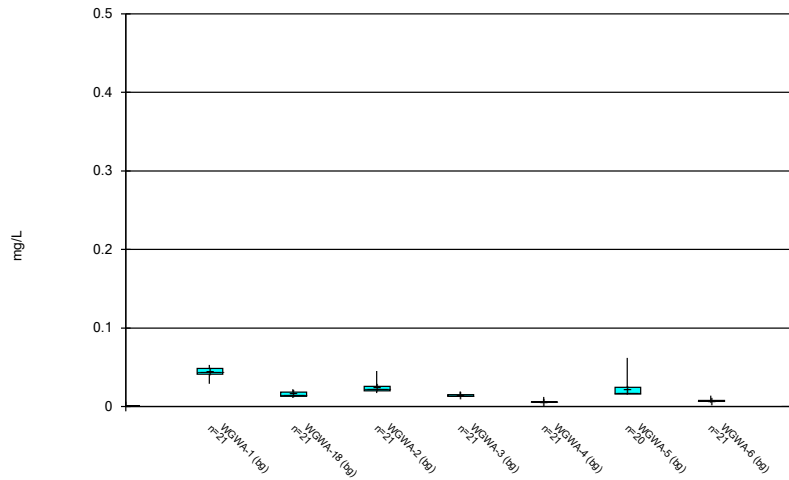
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Box & Whiskers Plot



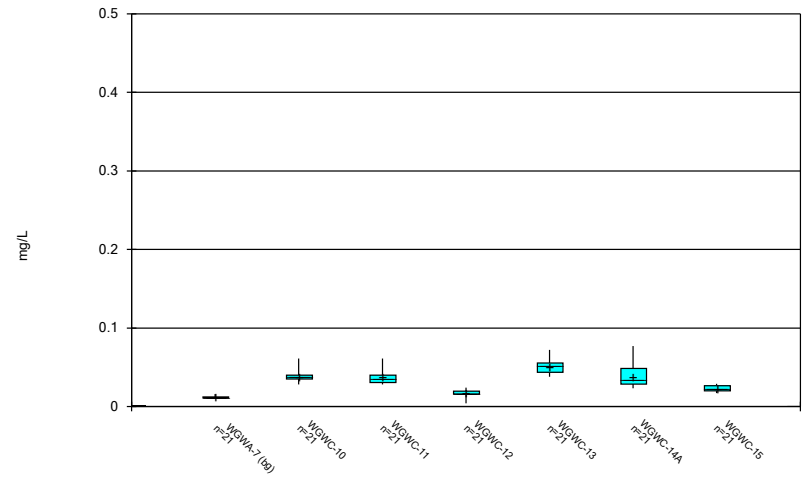
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Box & Whiskers Plot



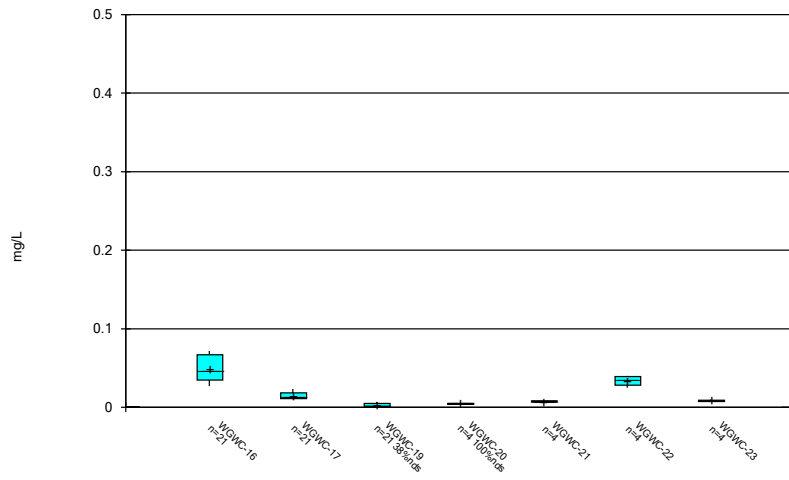
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Box & Whiskers Plot



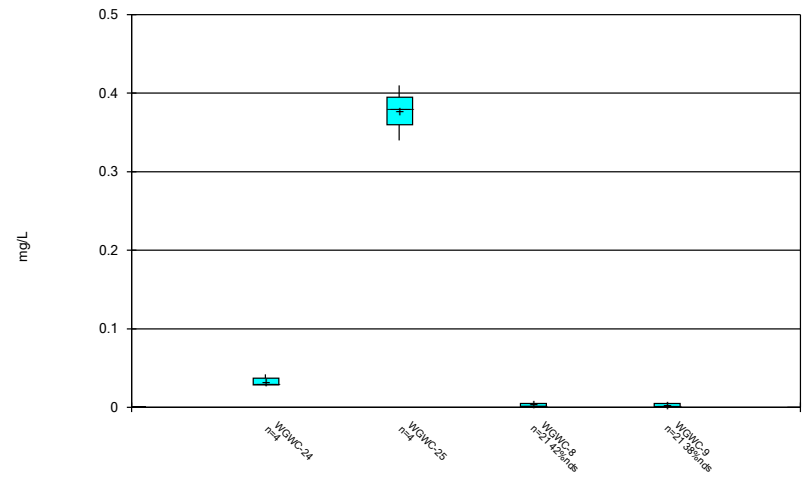
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Box & Whiskers Plot



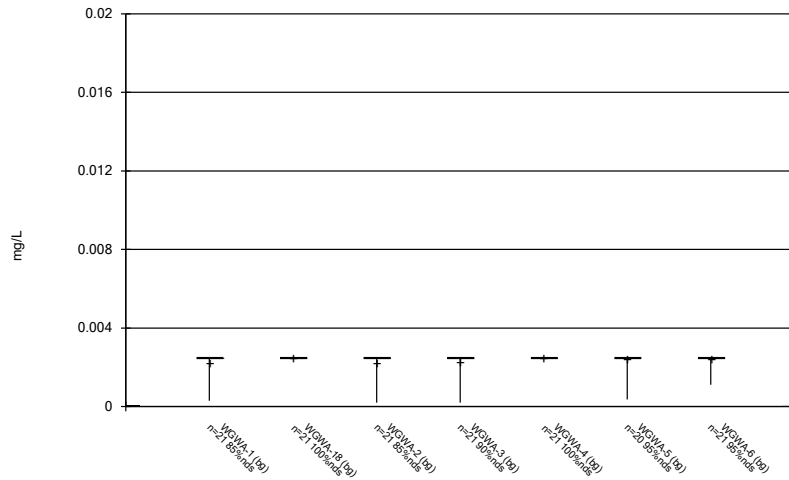
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



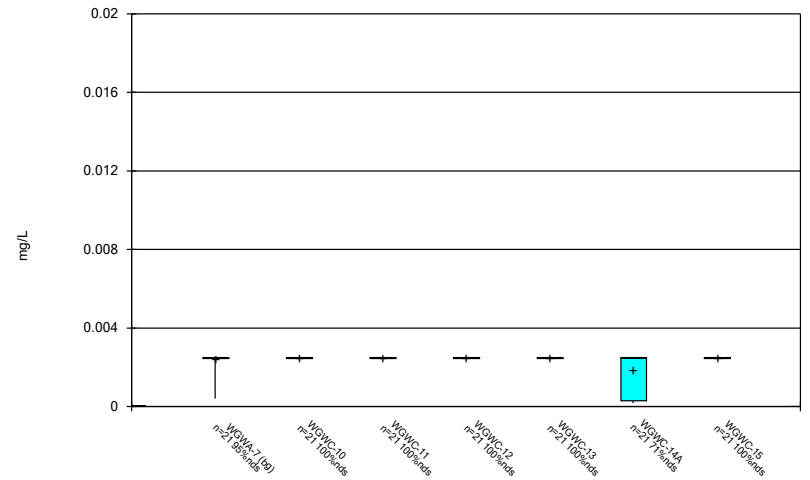
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Box & Whiskers Plot



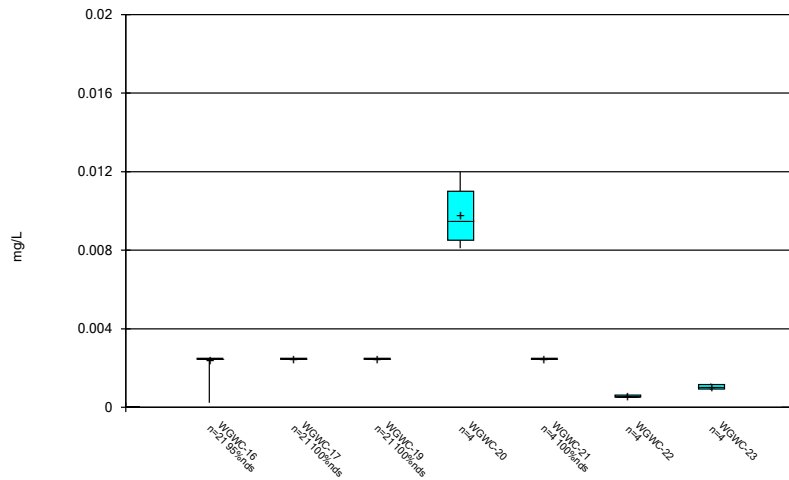
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Box & Whiskers Plot



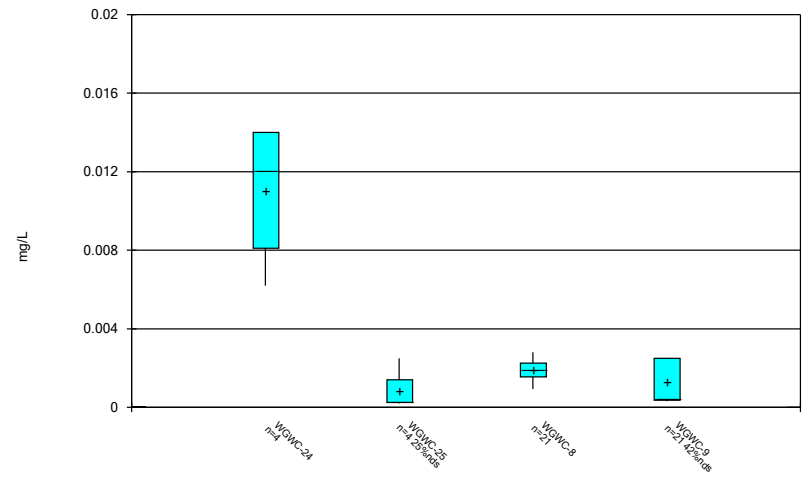
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Box & Whiskers Plot



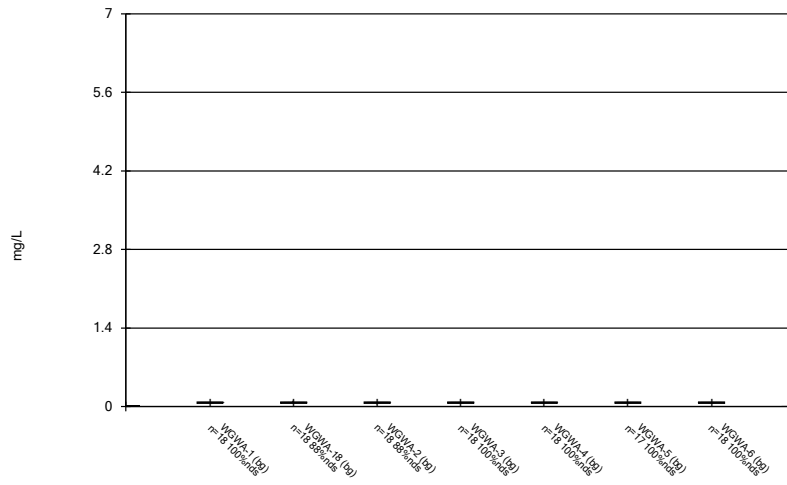
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Box & Whiskers Plot



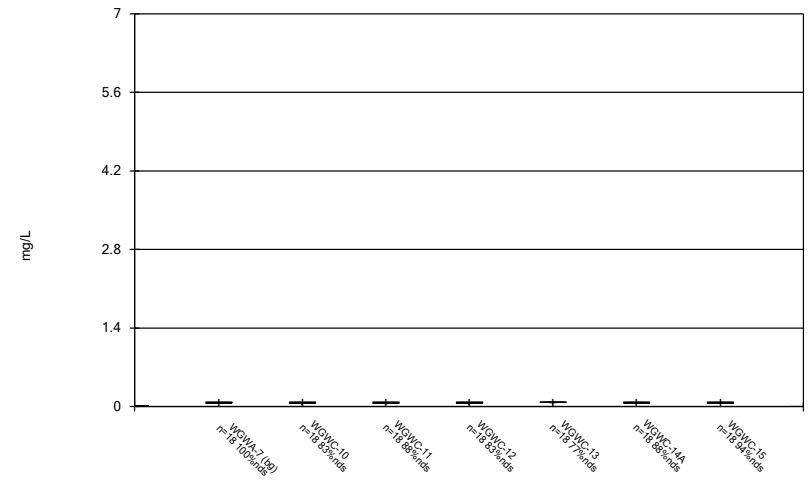
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Box & Whiskers Plot



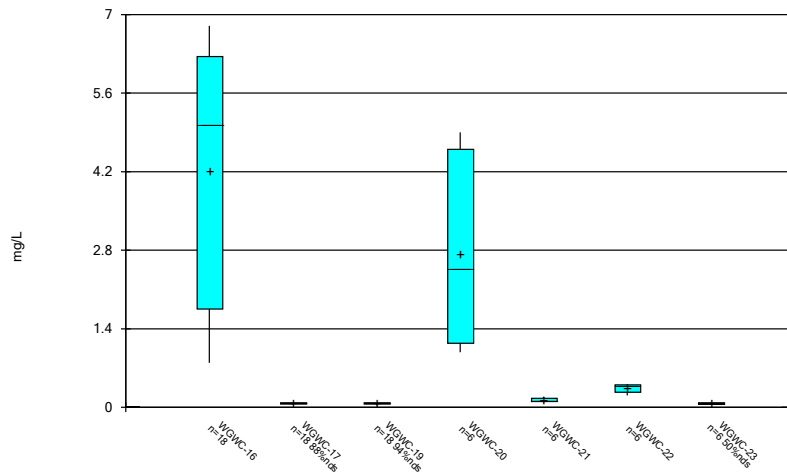
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Box & Whiskers Plot



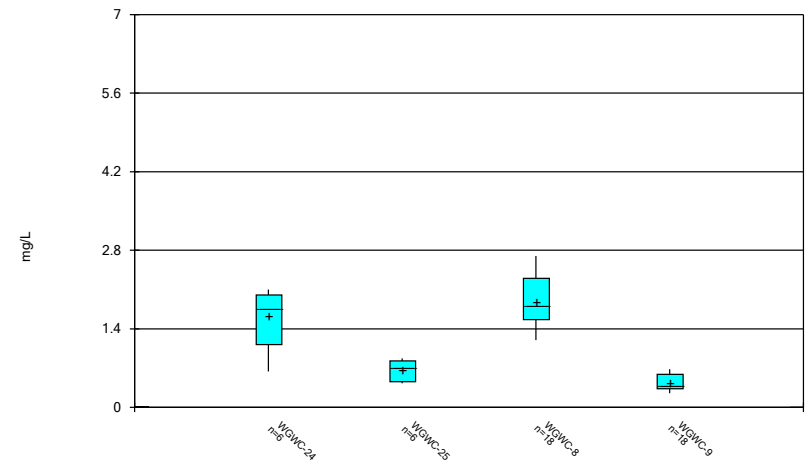
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



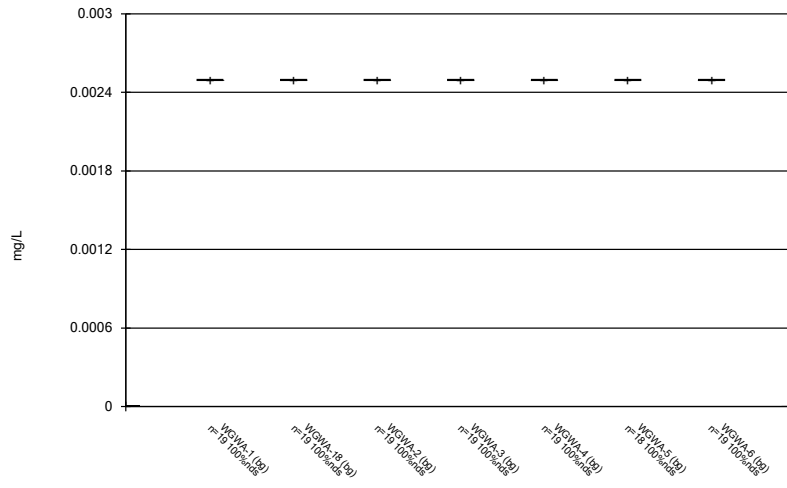
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Box & Whiskers Plot



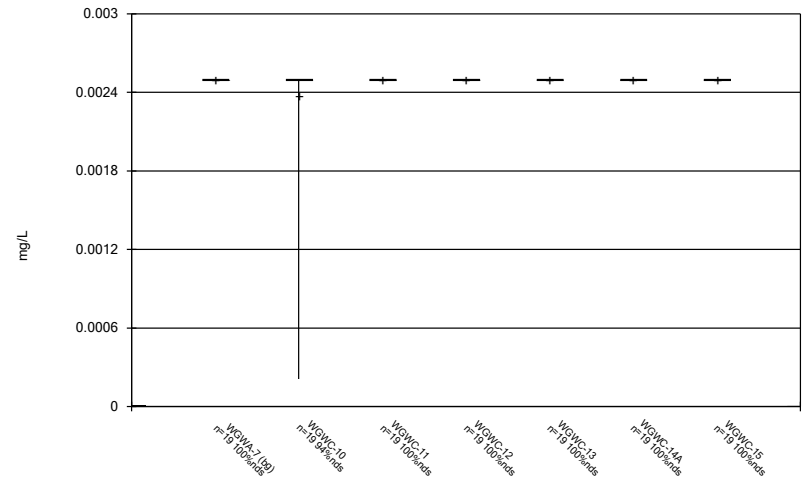
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Box & Whiskers Plot



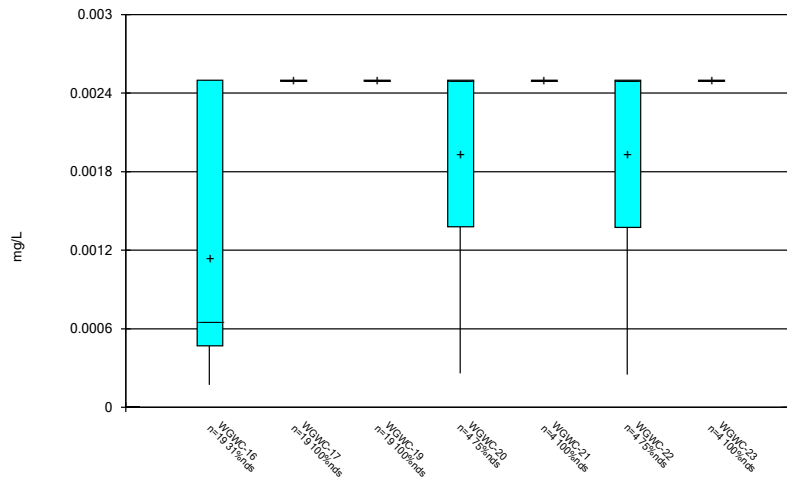
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Box & Whiskers Plot



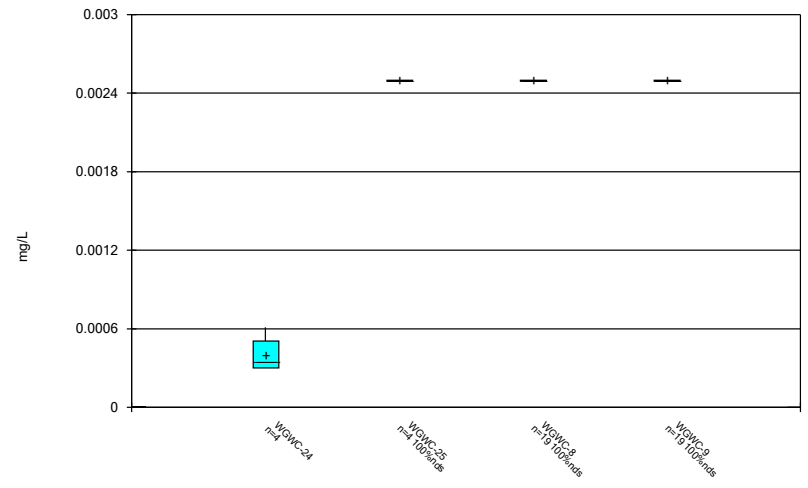
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Box & Whiskers Plot



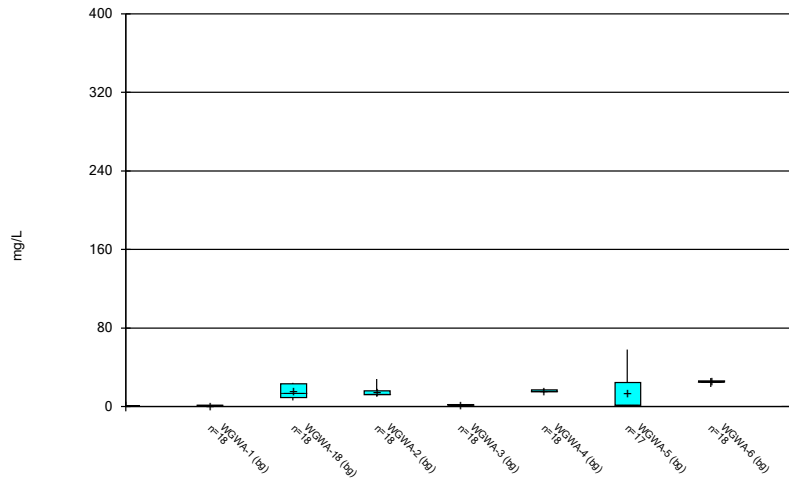
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Box & Whiskers Plot



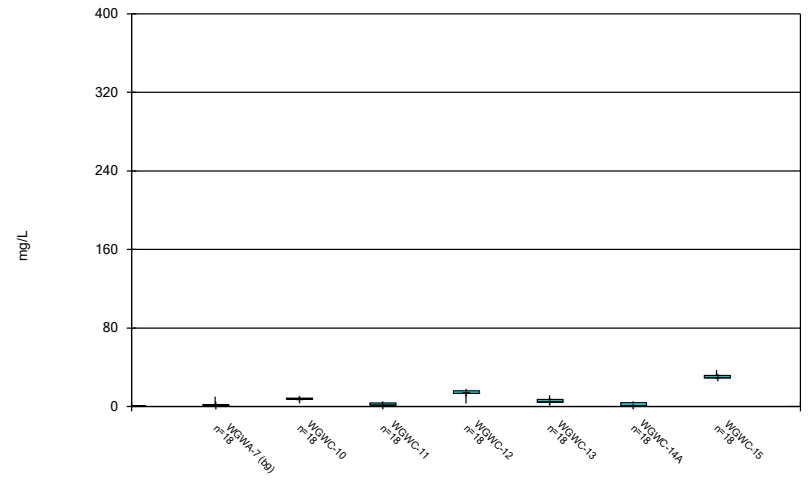
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Box & Whiskers Plot



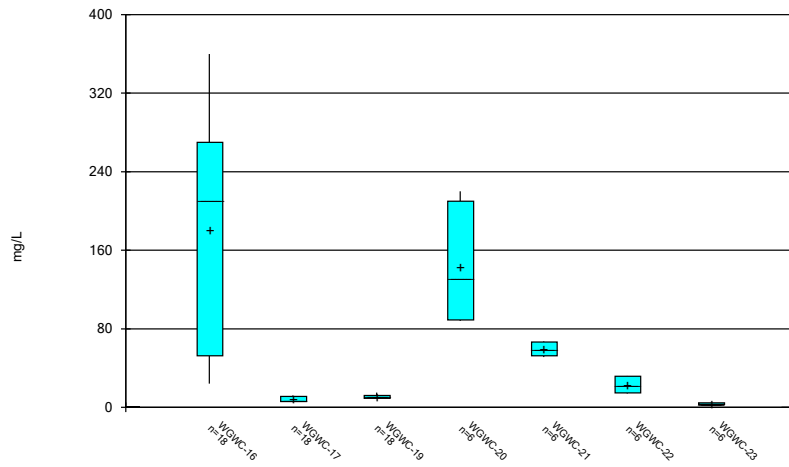
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



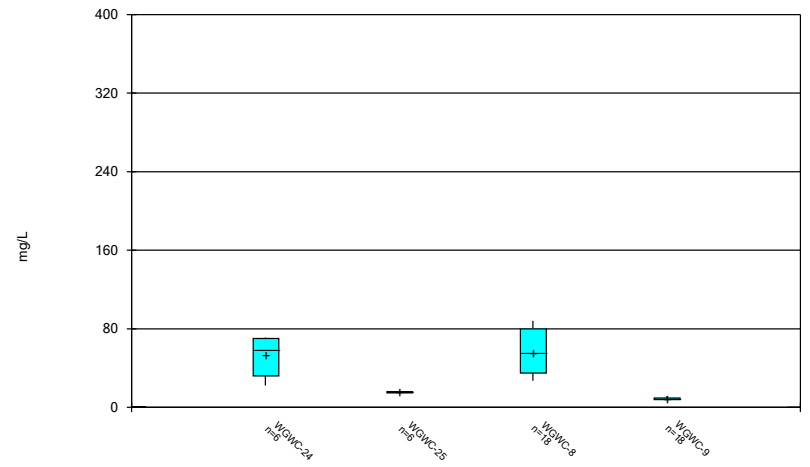
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Box & Whiskers Plot



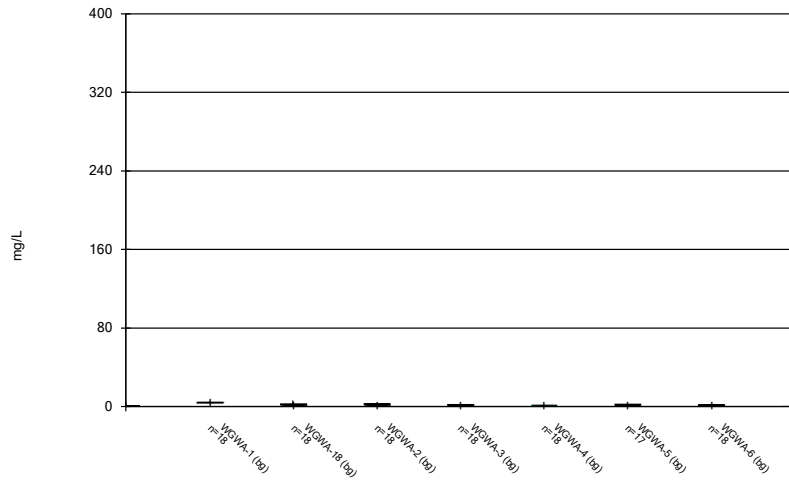
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Box & Whiskers Plot



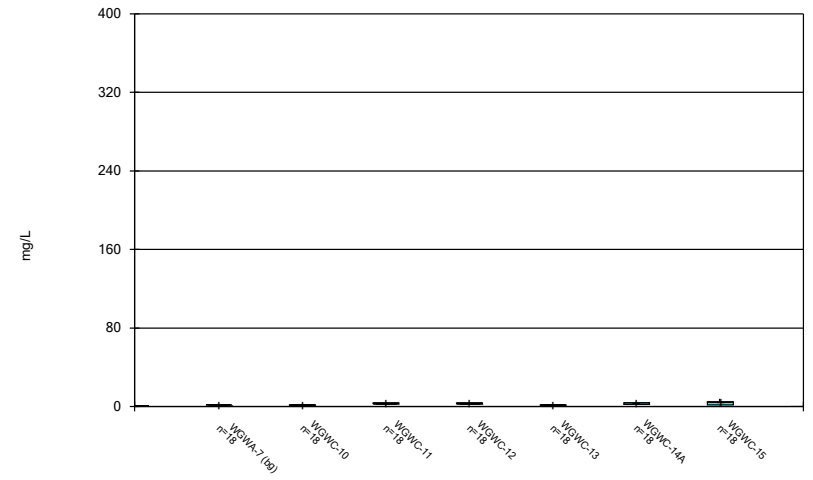
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Box & Whiskers Plot



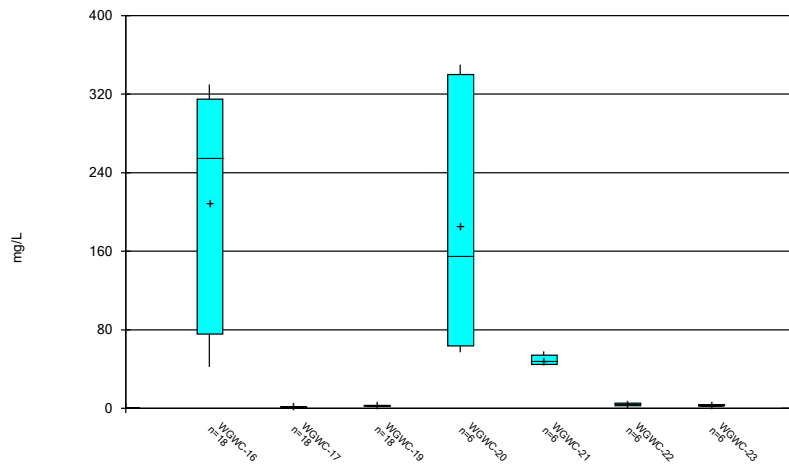
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



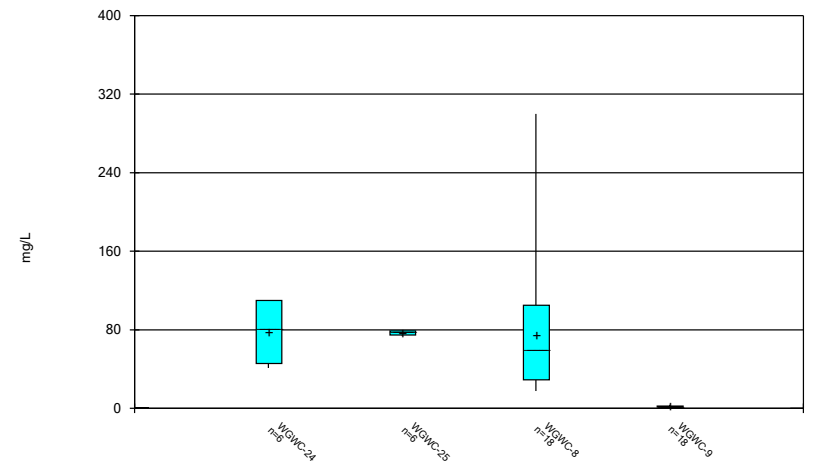
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Box & Whiskers Plot



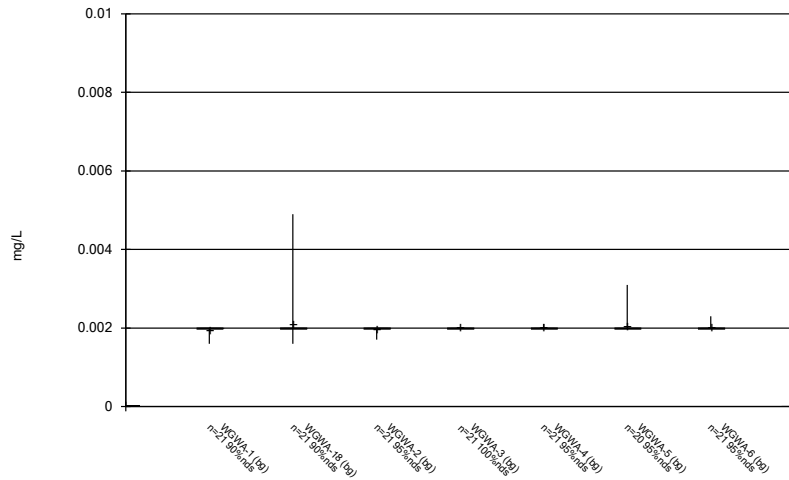
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Box & Whiskers Plot



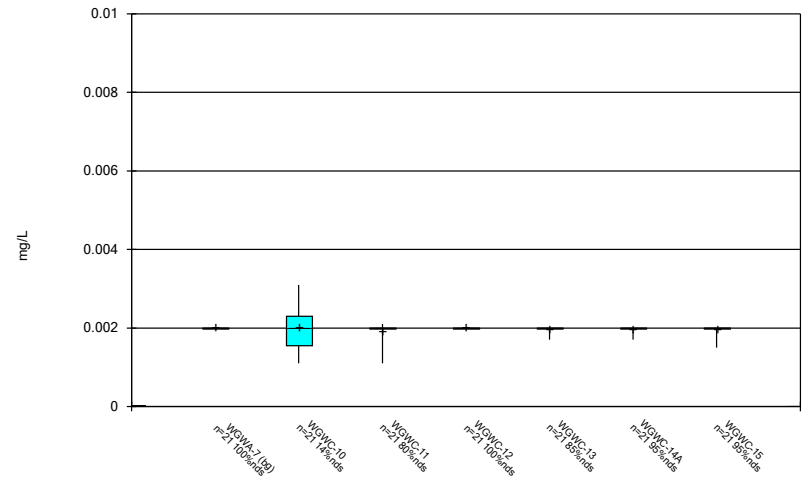
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Box & Whiskers Plot



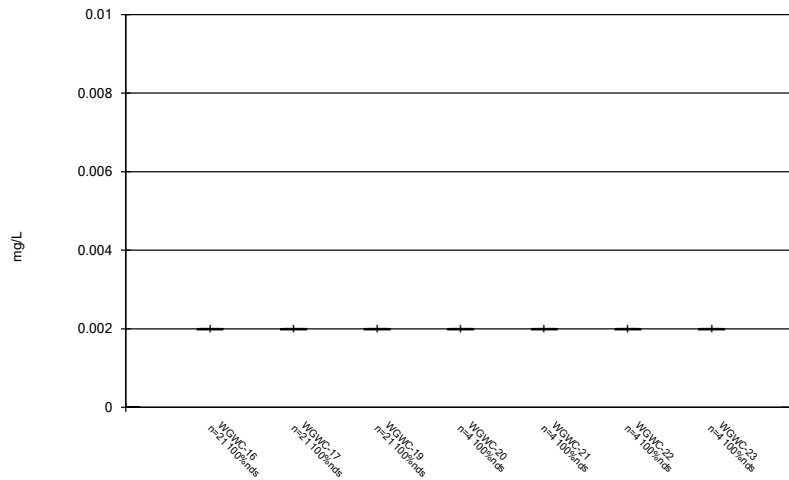
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Box & Whiskers Plot



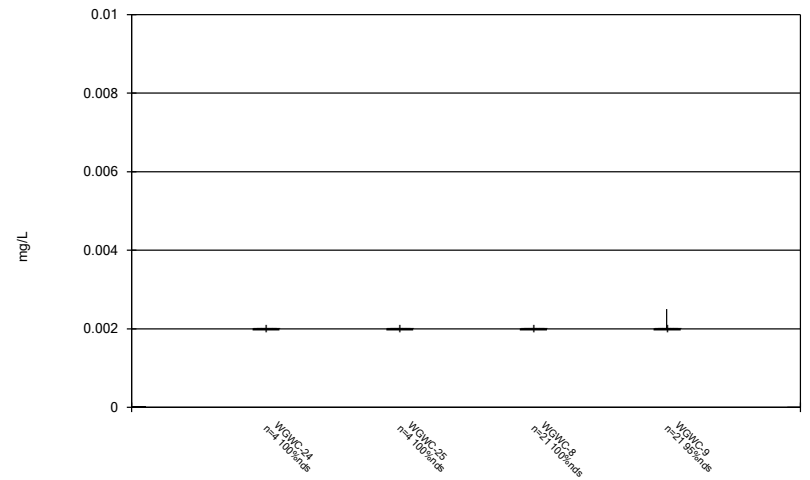
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Box & Whiskers Plot



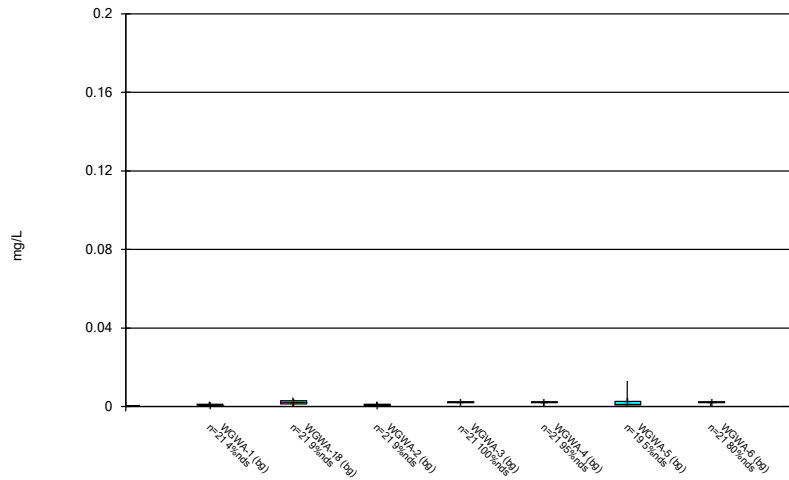
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Box & Whiskers Plot



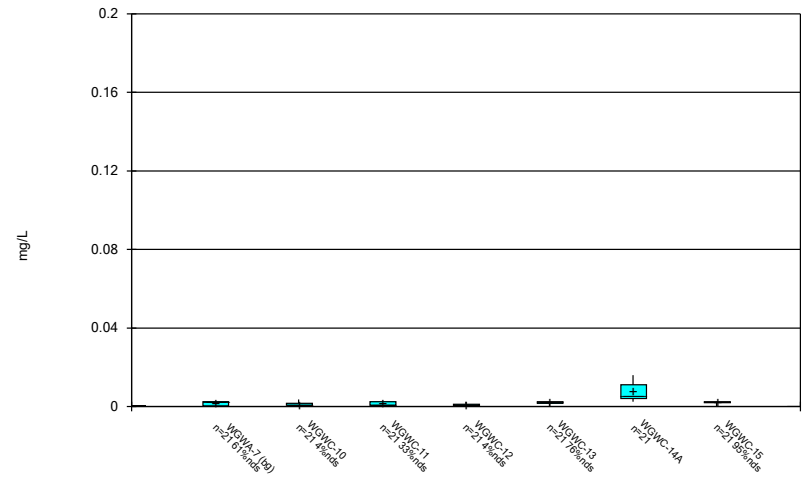
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



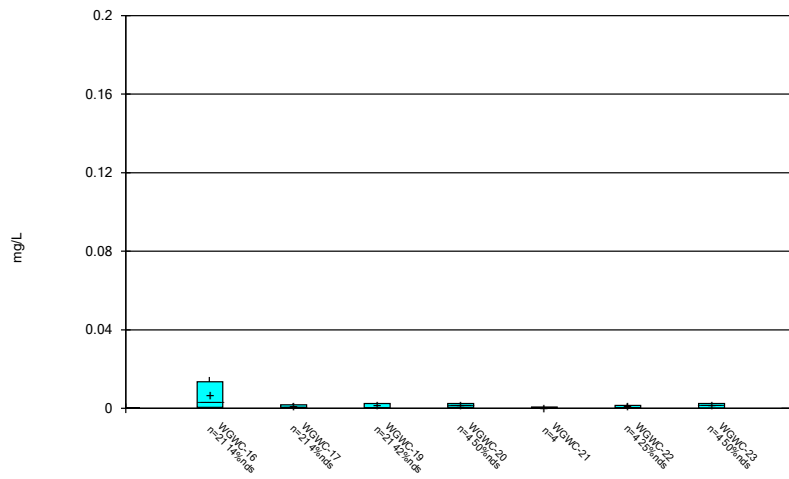
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Box & Whiskers Plot



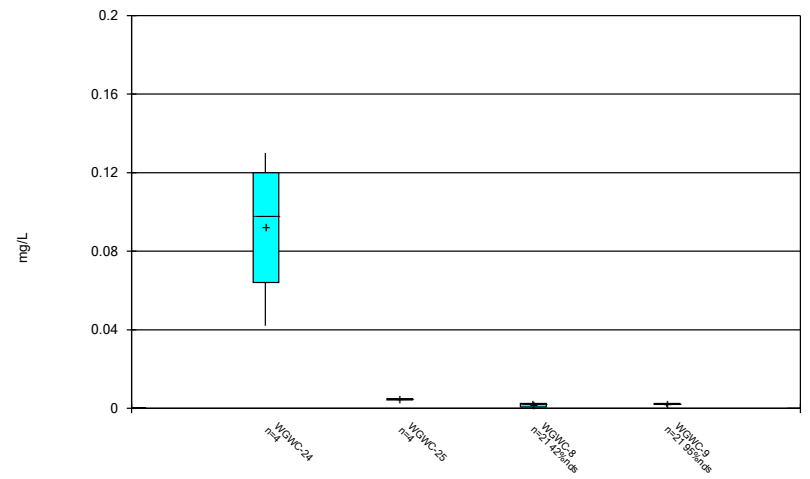
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



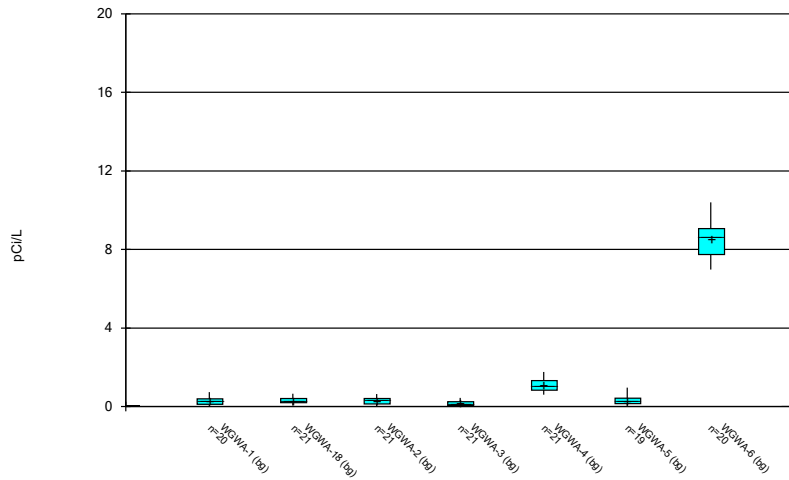
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Box & Whiskers Plot



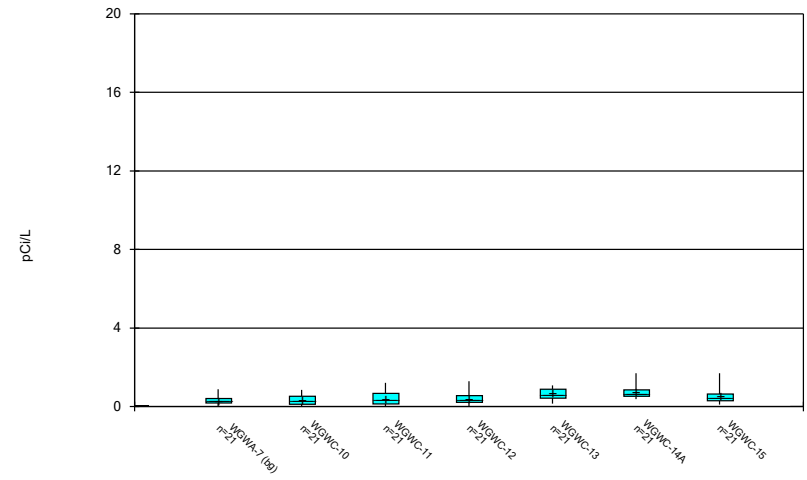
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Box & Whiskers Plot



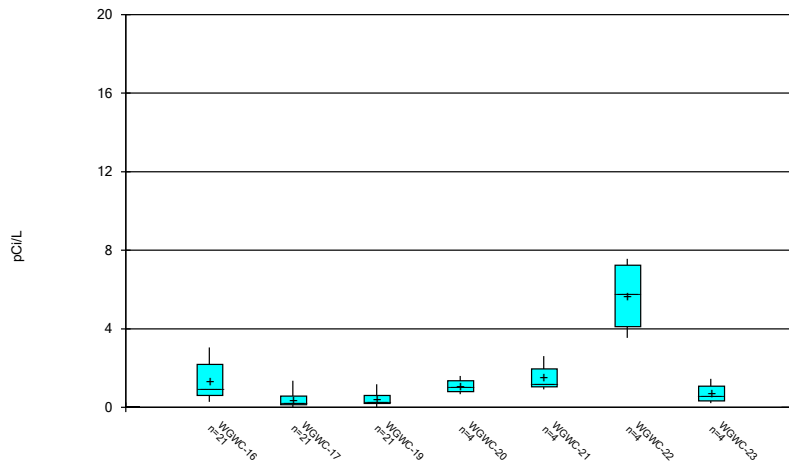
Constituent: Combined Radium 226 + 228 Analysis Run 7/12/2022 9:20 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



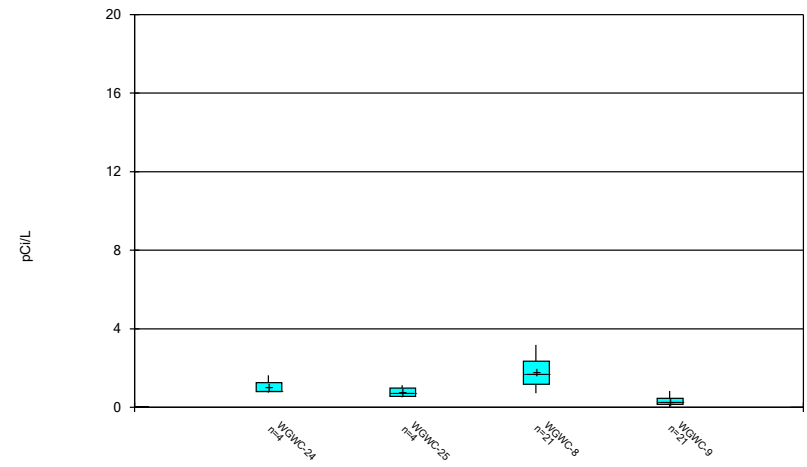
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



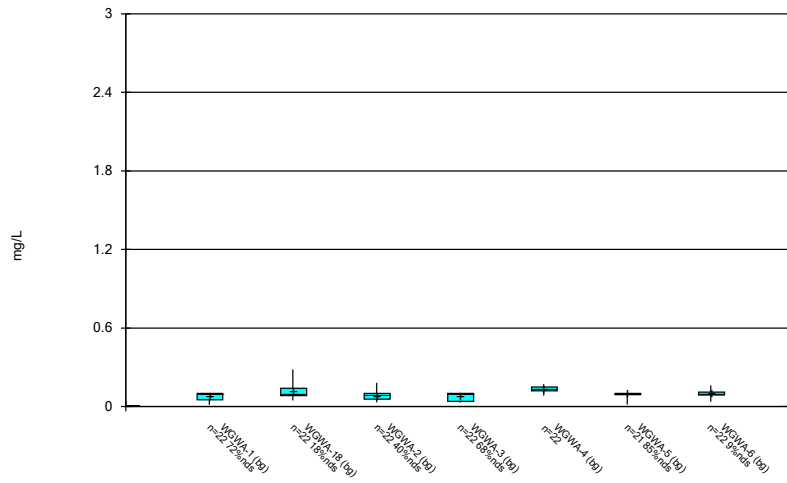
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



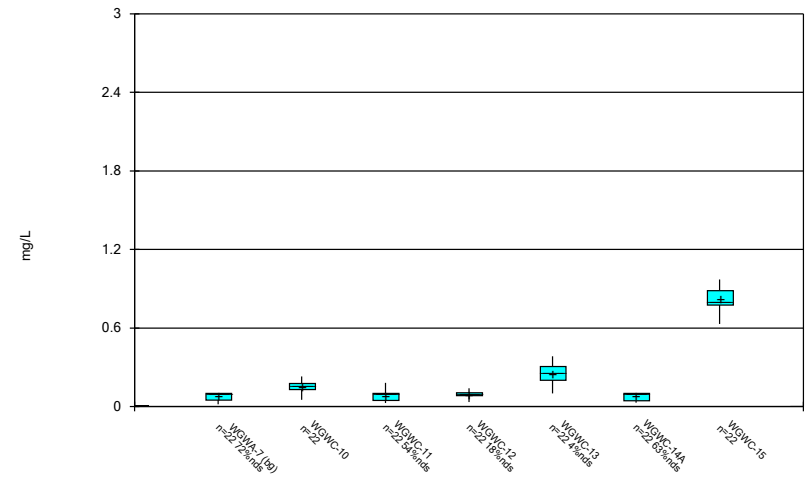
Constituent: Combined Radium 226 + 228 Analysis Run 7/12/2022 9:20 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



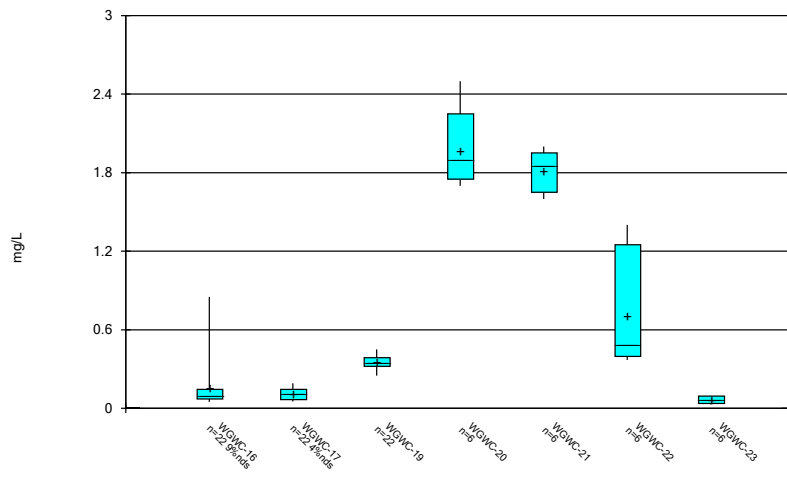
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



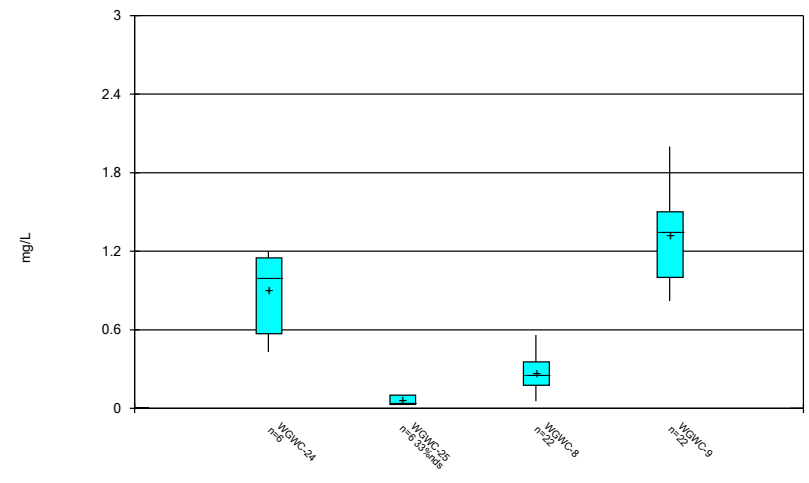
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



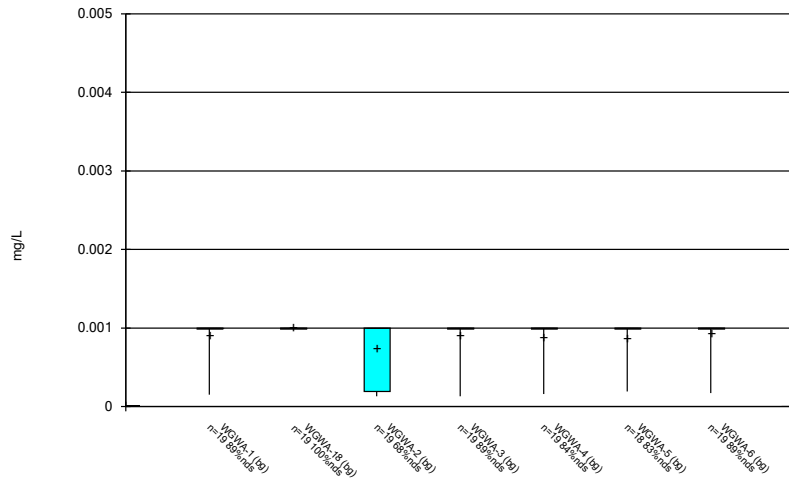
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



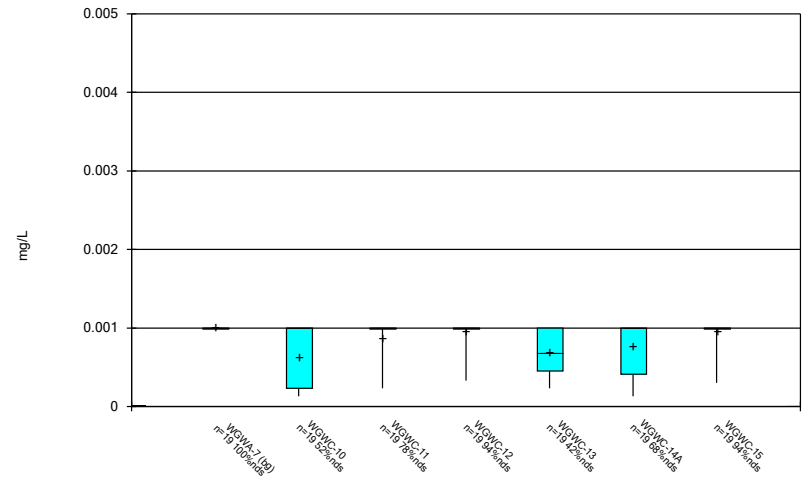
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Box & Whiskers Plot



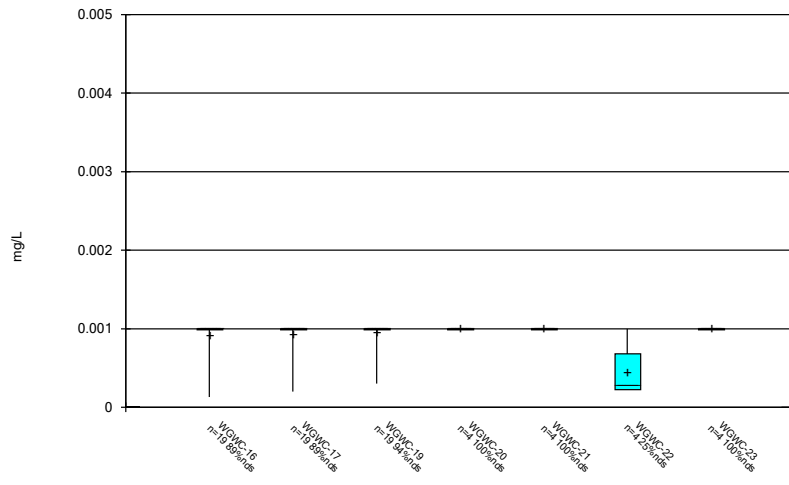
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Box & Whiskers Plot



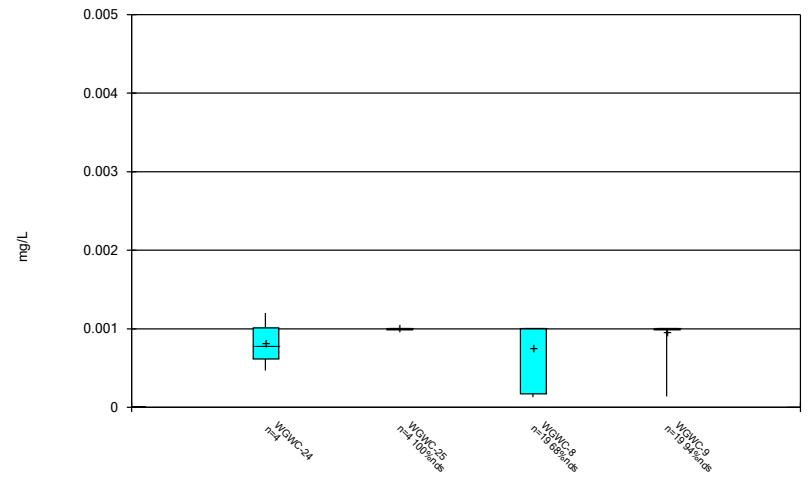
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



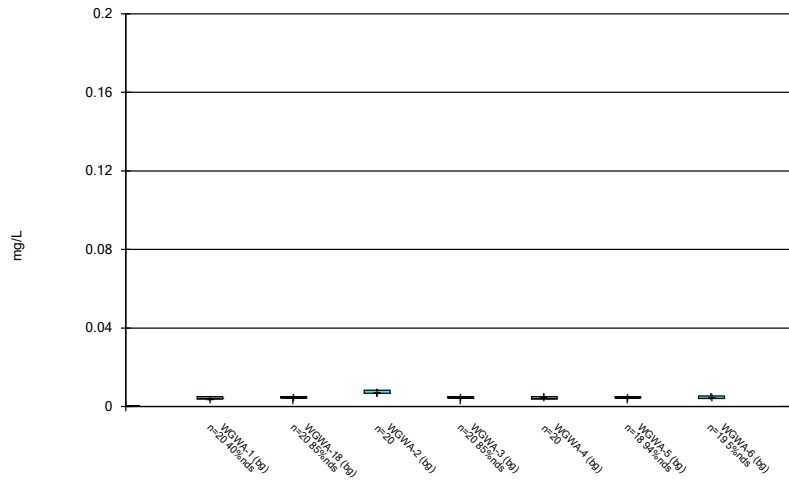
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



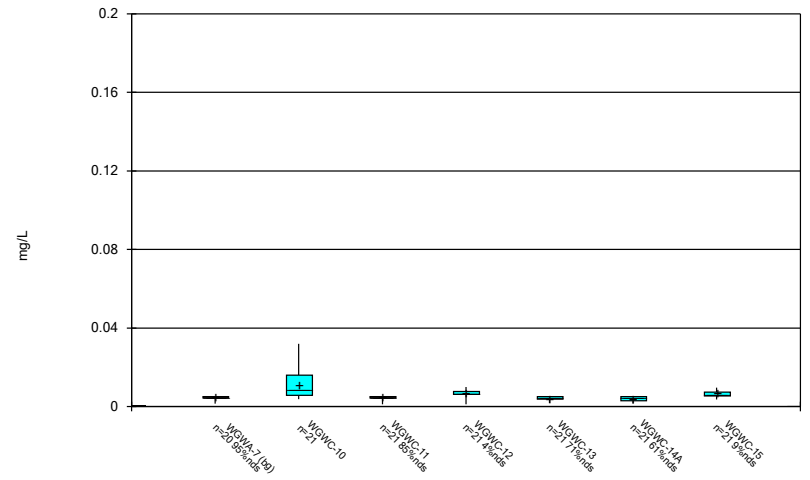
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



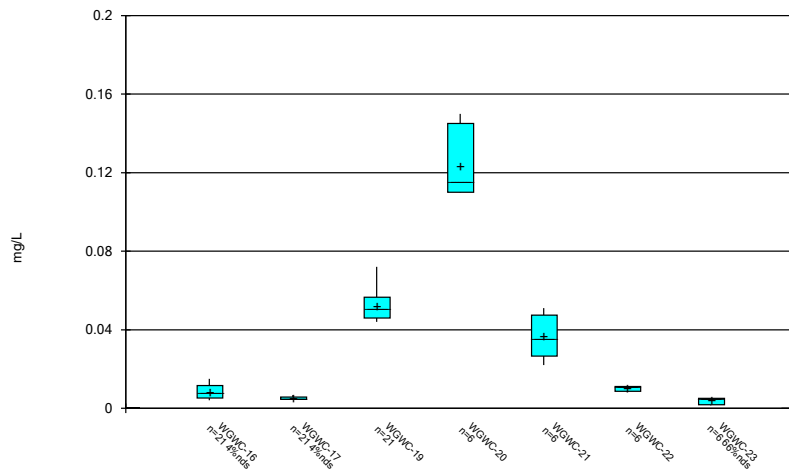
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



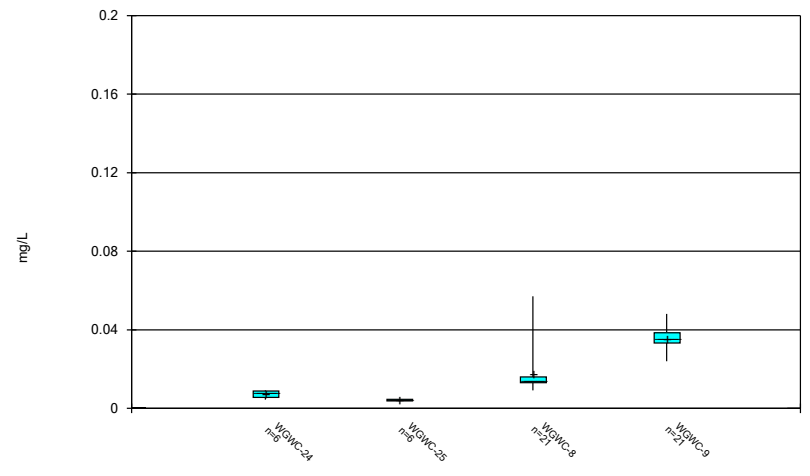
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Box & Whiskers Plot



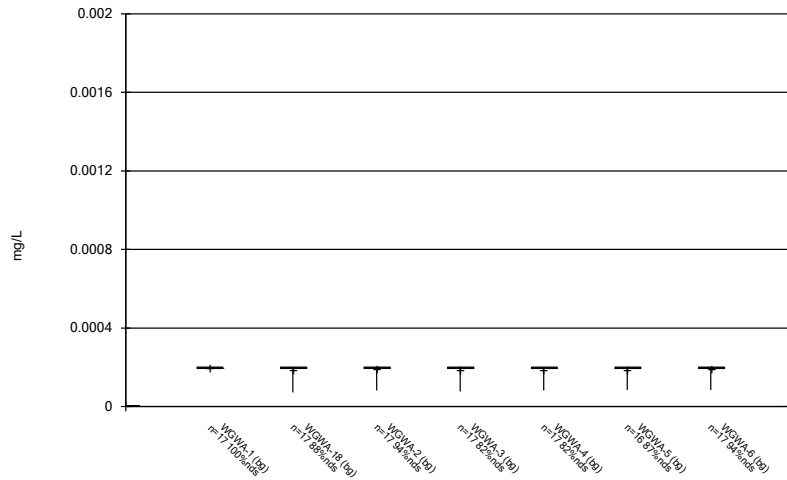
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Box & Whiskers Plot



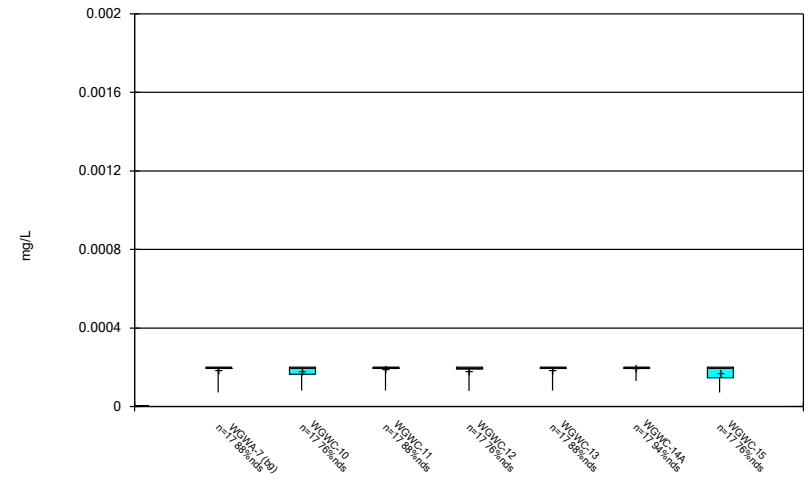
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Box & Whiskers Plot



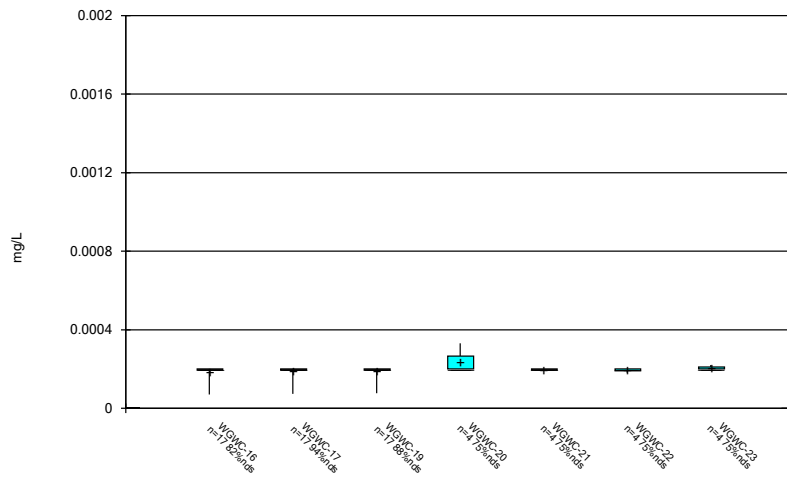
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



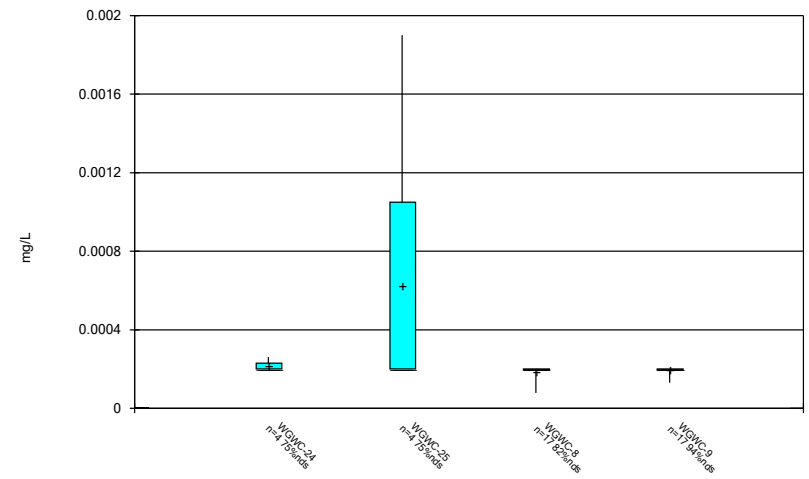
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



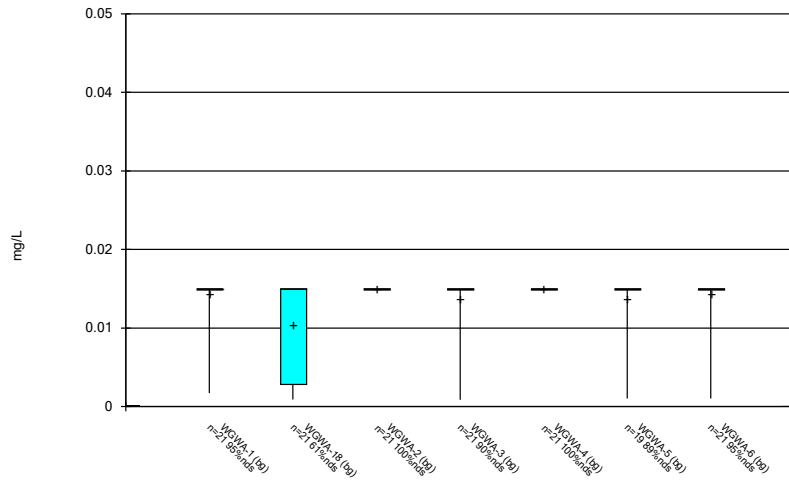
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



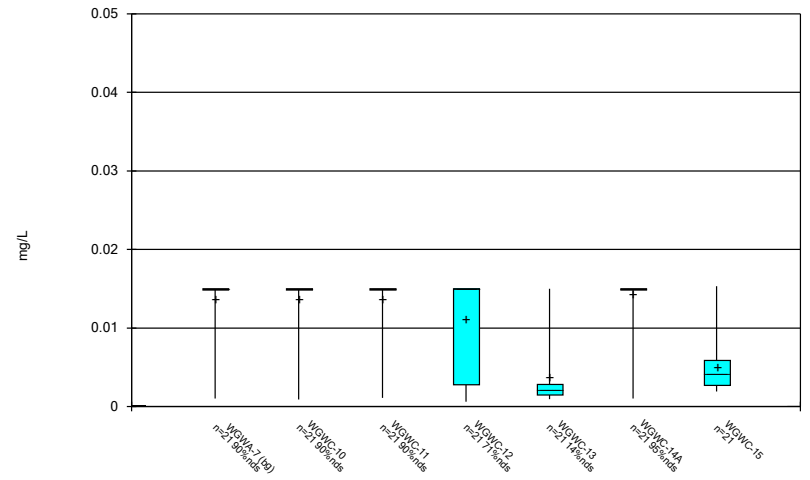
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



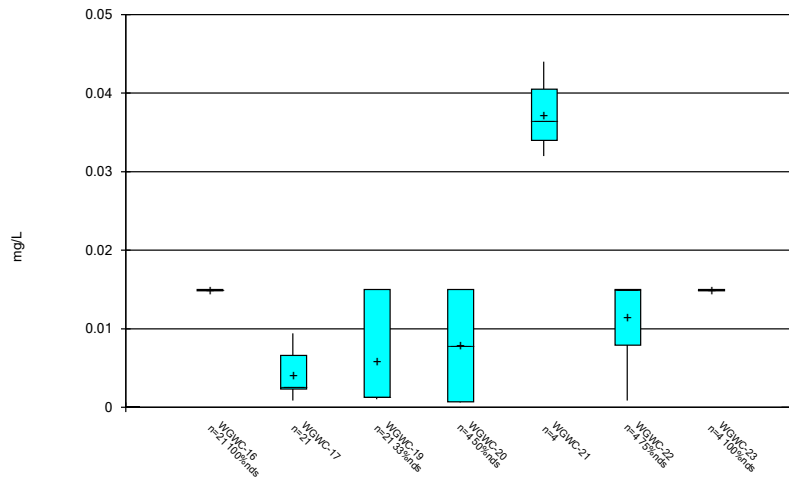
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



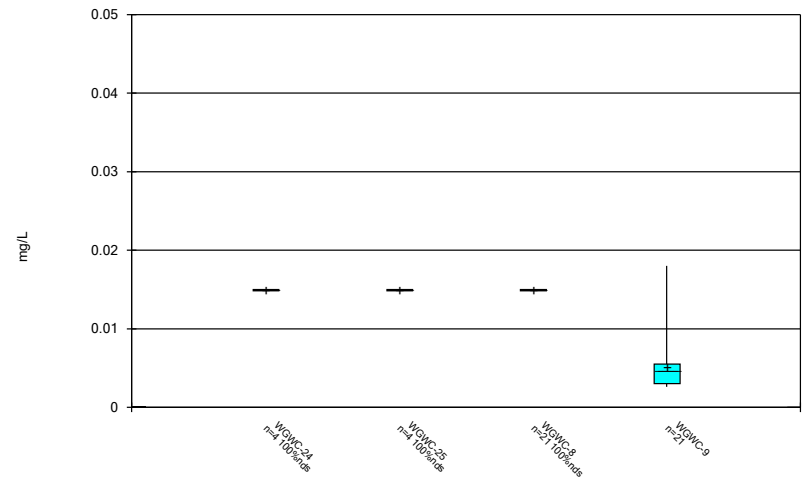
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



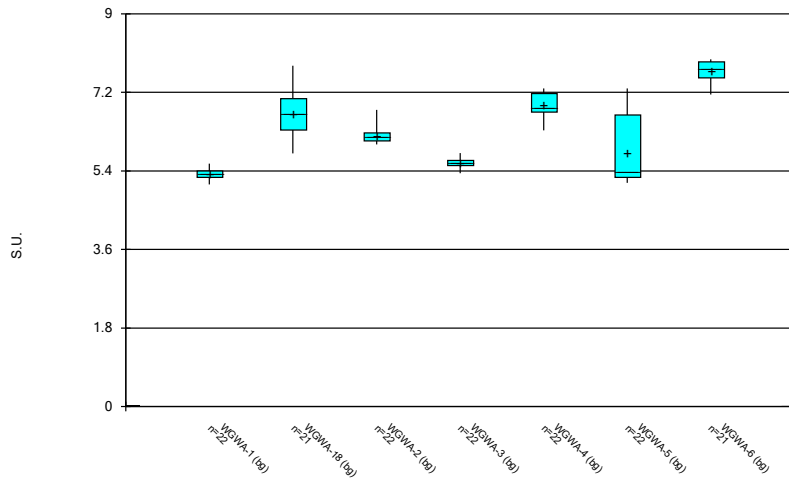
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



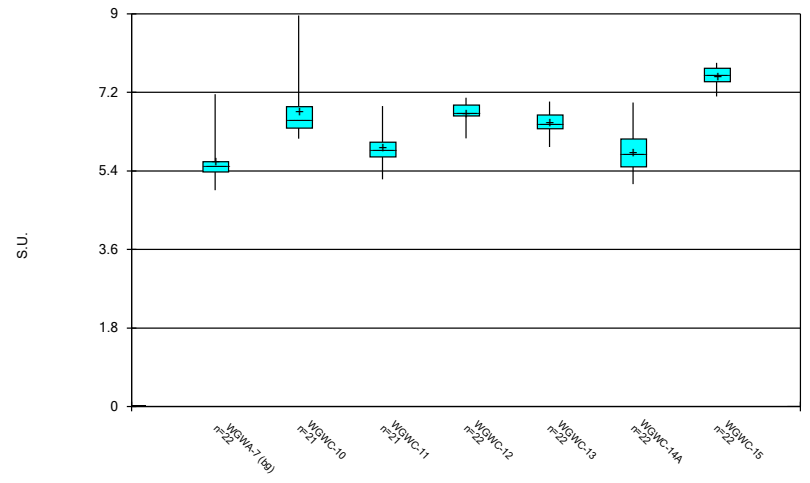
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



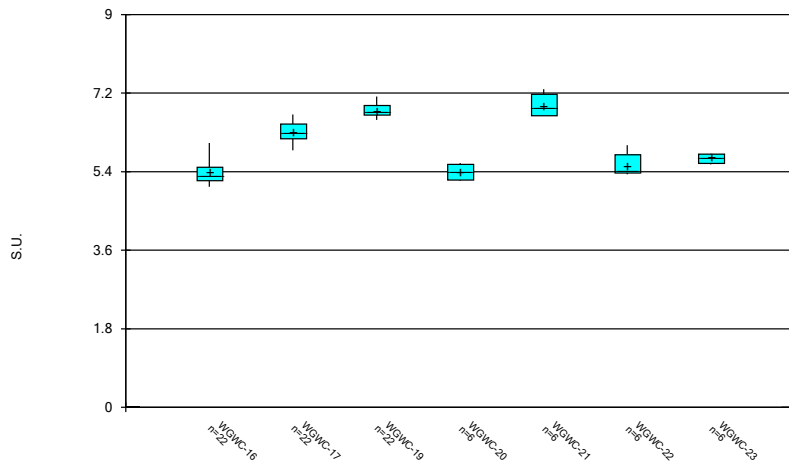
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



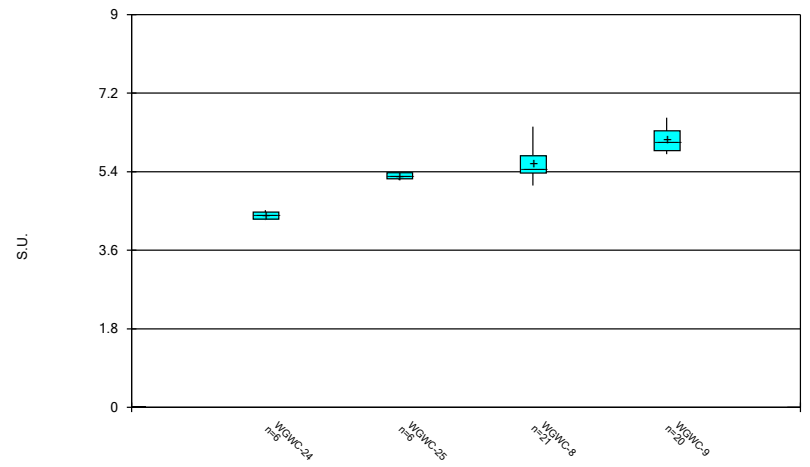
Constituent: pH, Field Analysis Run 7/12/2022 9:20 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



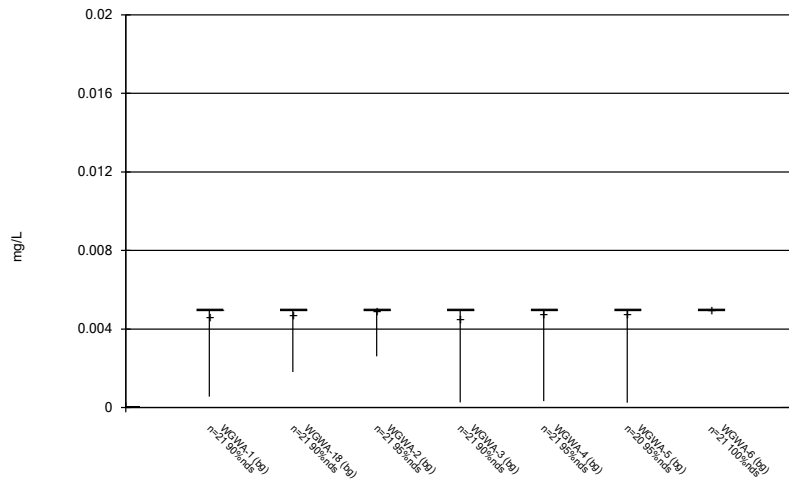
Constituent: pH, Field Analysis Run 7/12/2022 9:20 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



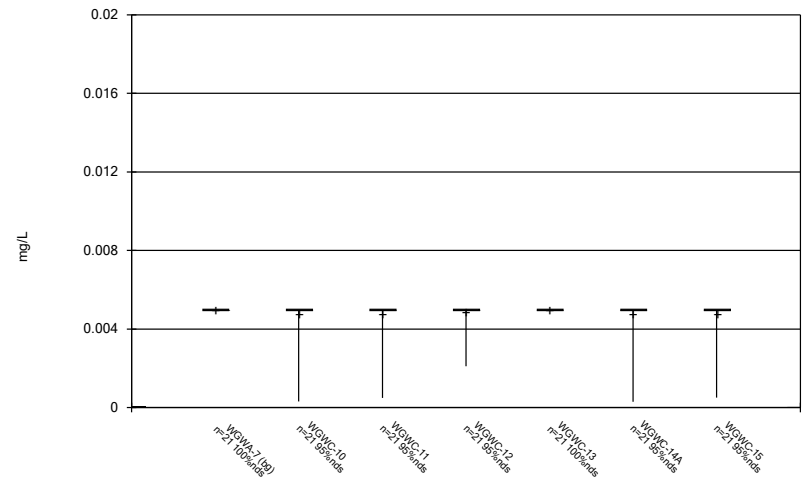
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



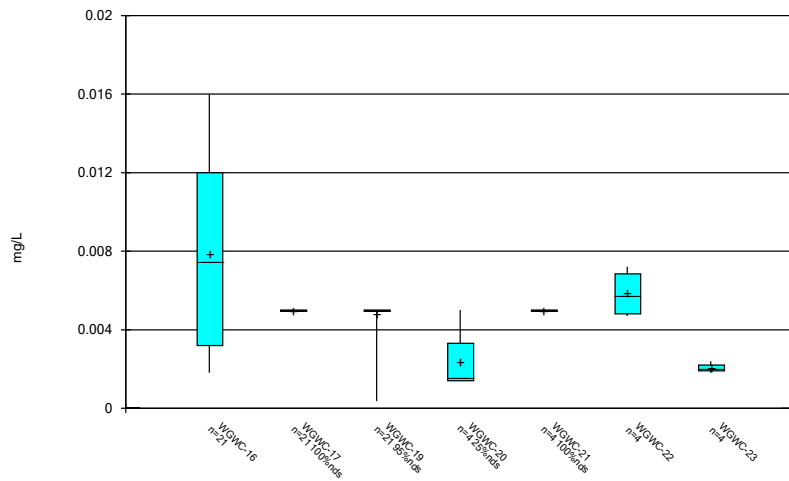
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



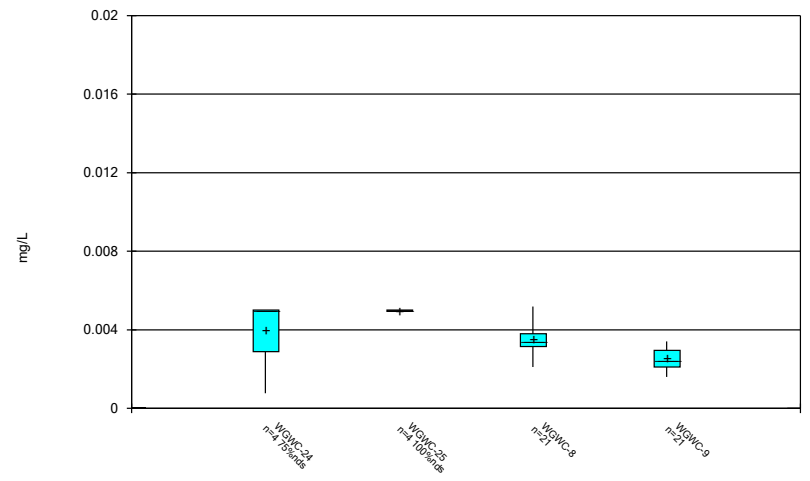
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



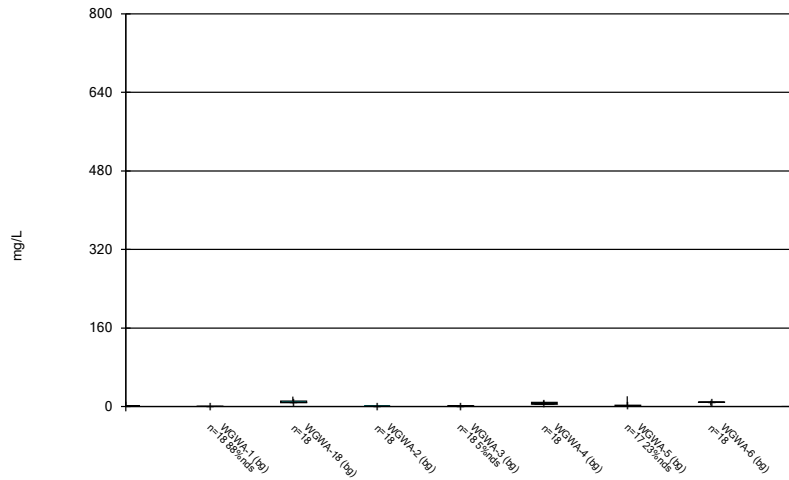
Constituent: Selenium Analysis Run 7/12/2022 9:20 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



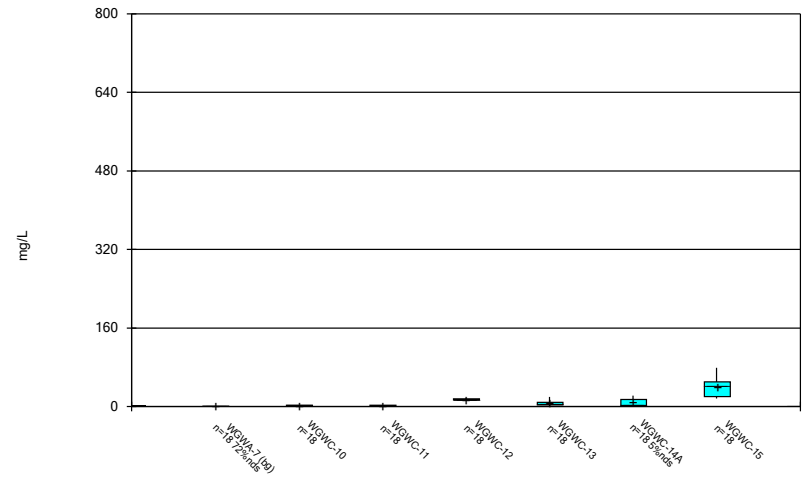
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 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



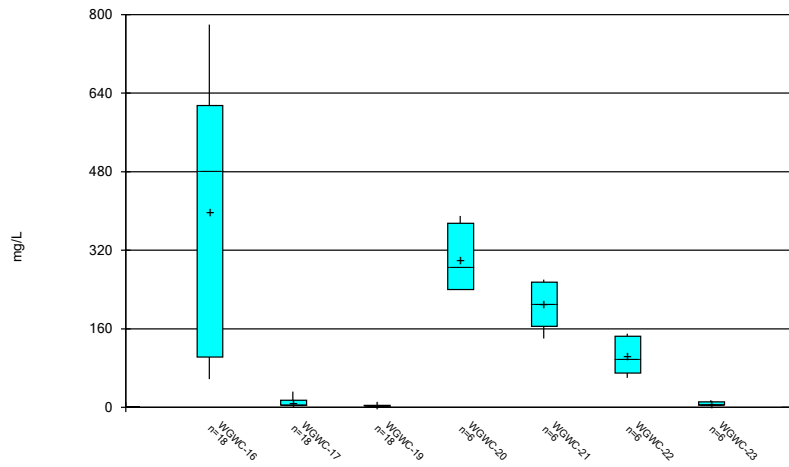
Constituent: Sulfate as SO4 Analysis Run 7/12/2022 9:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



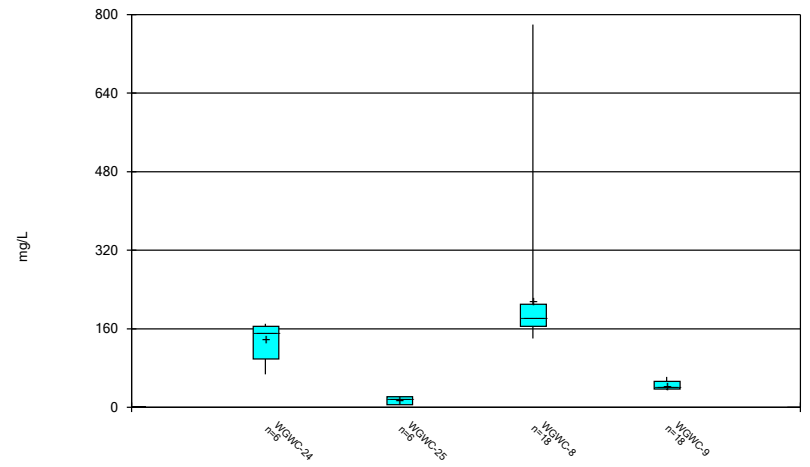
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



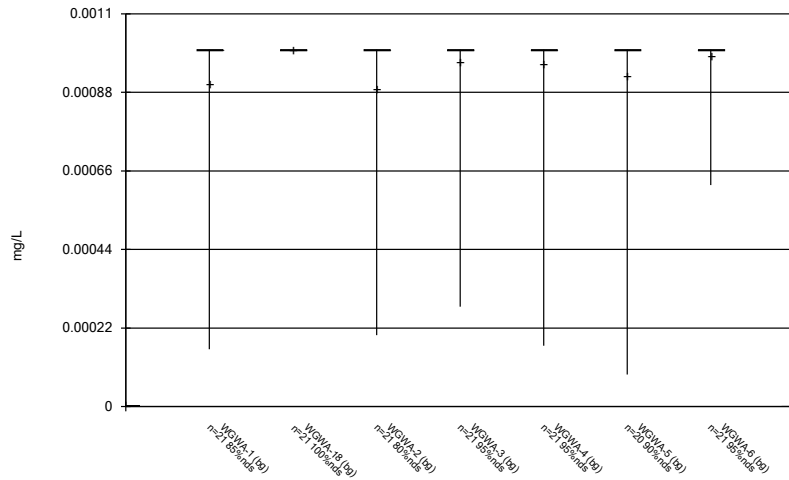
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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



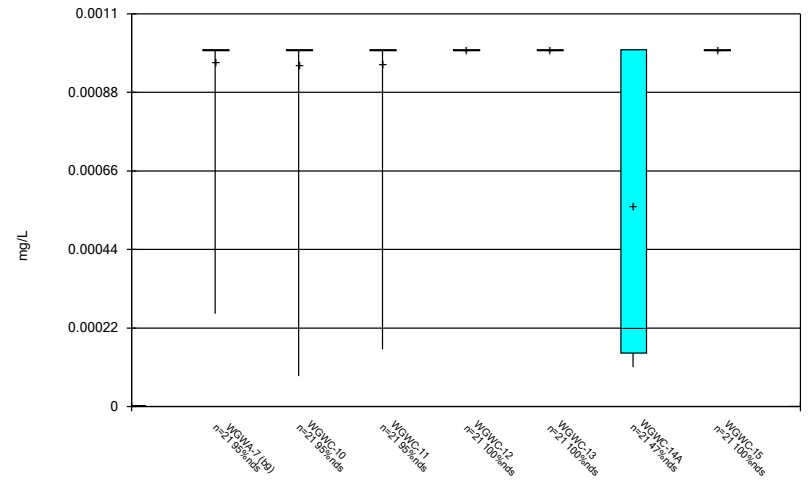
Constituent: Sulfate as SO4 Analysis Run 7/12/2022 9:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



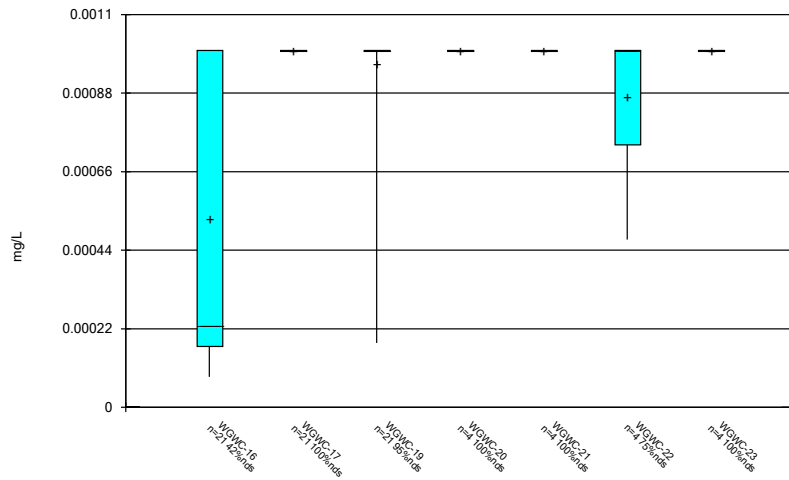
Constituent: Thallium Analysis Run 7/12/2022 9:20 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



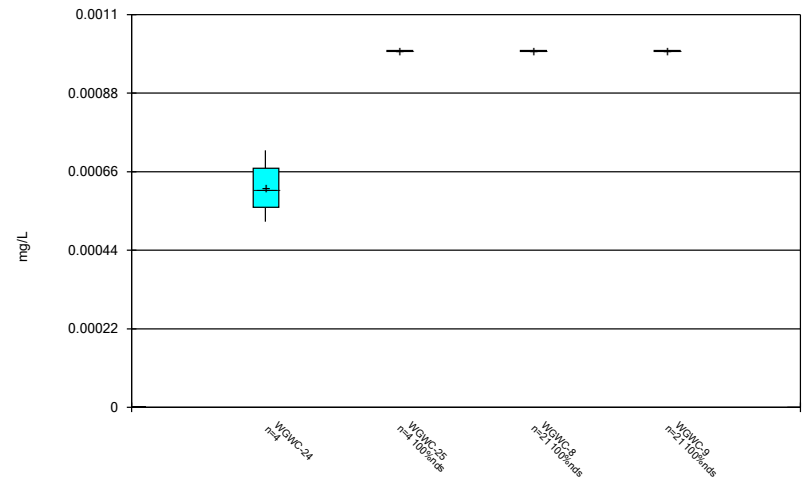
Constituent: Thallium Analysis Run 7/12/2022 9:20 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



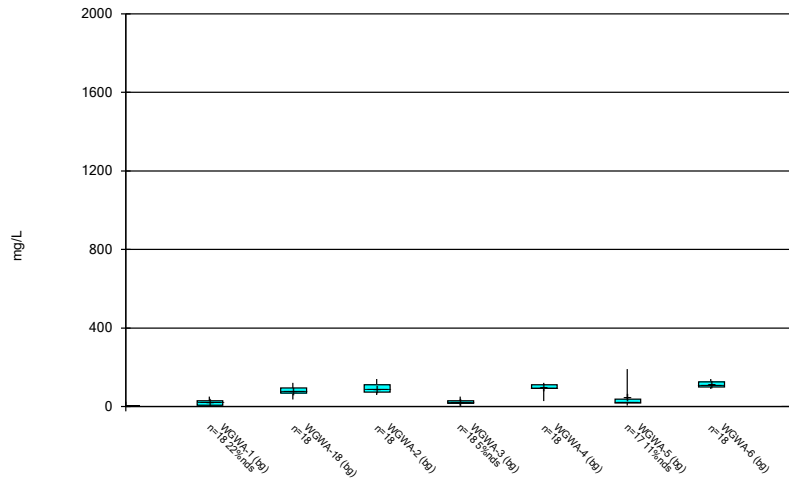
Constituent: Thallium Analysis Run 7/12/2022 9:20 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



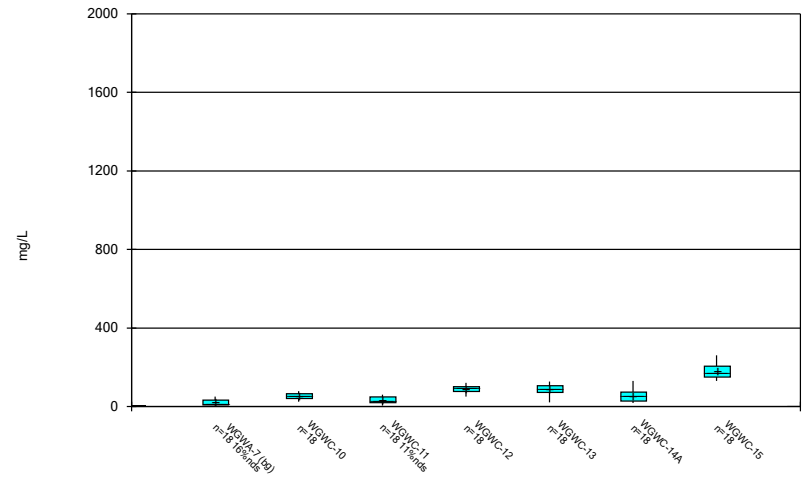
Constituent: Thallium Analysis Run 7/12/2022 9:20 AM
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



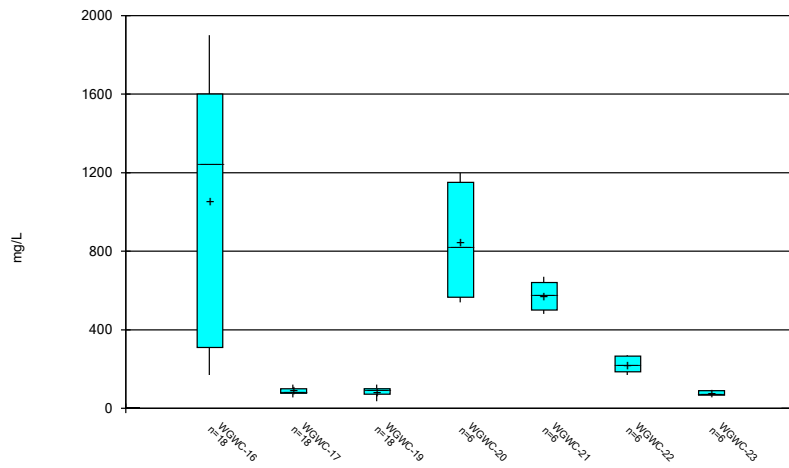
Constituent: Total Dissolved Solids [TDS] Analysis Run 7/12/2022 9:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



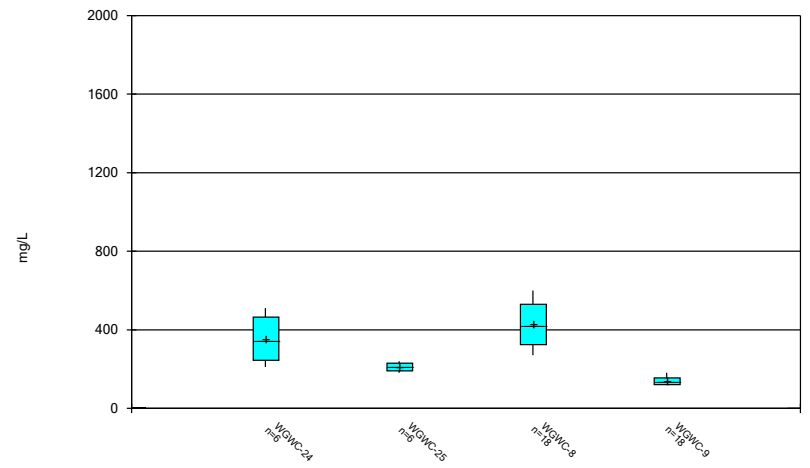
Constituent: Total Dissolved Solids [TDS] Analysis Run 7/12/2022 9:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 7/12/2022 9:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 7/12/2022 9:20 AM
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

FIGURE C.

Outlier Summary

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 6/28/2022, 12:58 PM

Date	WGWA-5 Cobalt (mg/L)	WGWA-1 Combined Radium 226 + 228 (pCi/L)	WGWA-6 Combined Radium 226 + 228 (pCi/L)	WGWA-1 Lithium (mg/L)	WGWA-18 Lithium (mg/L)	WGWA-2 Lithium (mg/L)	WGWA-3 Lithium (mg/L)	WGWA-4 Lithium (mg/L)	WGWA-5 Lithium (mg/L)	WGWA-6 Lithium (mg/L)
5/17/2016			<0.05 (O)	<0.05 (O)	<0.05 (O)					
5/18/2016						<0.05 (O)	<0.05 (O)	<0.05 (O)	<0.05 (O)	
7/19/2016	7.25 (O)									
9/14/2016										
1/19/2017	0.064 (O)									
3/14/2017		0.589 (O)								
9/16/2019								0.028 (O)	0.032 (O)	

Date	WGWA-7 Lithium (mg/L)	WGWA-5 Molybdenum (mg/L)
5/17/2016		
5/18/2016	<0.05 (O)	
7/19/2016		
9/14/2016	0.016 (O)	
1/19/2017		
3/14/2017		
9/16/2019		

FIGURE D.

Interwell Prediction Limits - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 6/28/2022, 1:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	WGWC-16	0.1	n/a	3/3/2022	0.79	Yes	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-8	0.1	n/a	3/3/2022	2.7	Yes	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-9	0.1	n/a	3/3/2022	0.62	Yes	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	WGWC-8	58	n/a	3/3/2022	88	Yes	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-16	6.05	n/a	3/3/2022	42	Yes	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-8	6.05	n/a	3/3/2022	130	Yes	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-15	0.284	n/a	3/3/2022	0.88	Yes	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-19	0.284	n/a	3/3/2022	0.4	Yes	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-9	0.284	n/a	3/3/2022	1	Yes	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	3/3/2022	57	Yes	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	3/3/2022	250	Yes	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	3/3/2022	58	Yes	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	3/3/2022	530	Yes	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 6/28/2022, 1:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	WGWC-10	0.1	n/a	3/3/2022	0.08ND	No	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-11	0.1	n/a	3/3/2022	0.08ND	No	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-12	0.1	n/a	3/4/2022	0.08ND	No	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-13	0.1	n/a	3/3/2022	0.08ND	No	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-14A	0.1	n/a	3/3/2022	0.08ND	No	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-15	0.1	n/a	3/3/2022	0.08ND	No	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-16	0.1	n/a	3/3/2022	0.79	Yes	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-17	0.1	n/a	3/4/2022	0.08ND	No	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-19	0.1	n/a	3/3/2022	0.08ND	No	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-8	0.1	n/a	3/3/2022	2.7	Yes	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-9	0.1	n/a	3/3/2022	0.62	Yes	143	n/a	n/a	97.2	n/a	n/a	0.00009593	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	WGWC-10	58	n/a	3/3/2022	7.1	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-11	58	n/a	3/3/2022	1.3	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-12	58	n/a	3/4/2022	12	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-13	58	n/a	3/3/2022	3.4	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-14A	58	n/a	3/3/2022	0.65	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-15	58	n/a	3/3/2022	28	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-16	58	n/a	3/3/2022	24	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-17	58	n/a	3/4/2022	5.3	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-19	58	n/a	3/3/2022	12	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-8	58	n/a	3/3/2022	88	Yes	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-9	58	n/a	3/3/2022	8.6	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-10	6.05	n/a	3/3/2022	1.6	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-11	6.05	n/a	3/3/2022	3.6	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-12	6.05	n/a	3/4/2022	3.2	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-13	6.05	n/a	3/3/2022	1	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-14A	6.05	n/a	3/3/2022	2.4	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-15	6.05	n/a	3/3/2022	1.4	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-16	6.05	n/a	3/3/2022	42	Yes	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-17	6.05	n/a	3/4/2022	1.3	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-19	6.05	n/a	3/3/2022	3.2	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-8	6.05	n/a	3/3/2022	130	Yes	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-9	6.05	n/a	3/3/2022	3.5	No	143	n/a	n/a	0	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-10	0.284	n/a	3/3/2022	0.067J	No	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-11	0.284	n/a	3/3/2022	0.055J	No	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-12	0.284	n/a	3/4/2022	0.068J	No	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-13	0.284	n/a	3/3/2022	0.21	No	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-14A	0.284	n/a	3/3/2022	0.057J	No	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-15	0.284	n/a	3/3/2022	0.88	Yes	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-16	0.284	n/a	3/3/2022	0.067J	No	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-17	0.284	n/a	3/4/2022	0.06J	No	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-19	0.284	n/a	3/3/2022	0.4	Yes	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-8	0.284	n/a	3/3/2022	0.19	No	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-9	0.284	n/a	3/3/2022	1	Yes	175	n/a	n/a	45.71	n/a	n/a	0.00006448	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-10	7.96	4.96	3/3/2022	6.36	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-11	7.96	4.96	3/3/2022	5.59	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-12	7.96	4.96	3/4/2022	6.79	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-13	7.96	4.96	3/3/2022	6.31	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-14A	7.96	4.96	3/3/2022	5.4	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-15	7.96	4.96	3/3/2022	7.61	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-16	7.96	4.96	3/3/2022	5.22	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-17	7.96	4.96	3/4/2022	6.21	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-19	7.96	4.96	3/3/2022	6.69	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-8	7.96	4.96	3/3/2022	5.21	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-9	7.96	4.96	3/3/2022	5.86	No	174	n/a	n/a	0	n/a	n/a	0.0001305	NP Inter (normality) 1 of 2

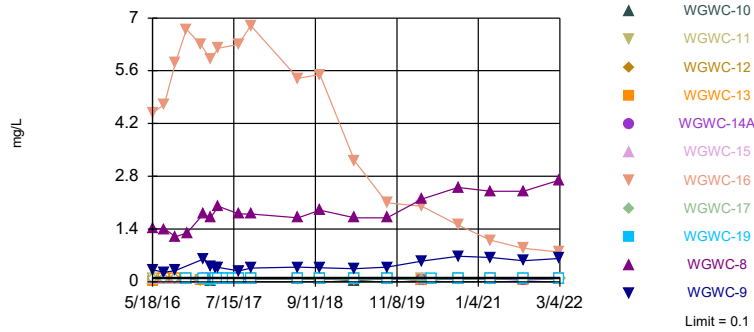
Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 6/28/2022, 1:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate as SO4 (mg/L)	WGWC-10	21	n/a	3/3/2022	2	No	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-11	21	n/a	3/3/2022	2.3	No	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-12	21	n/a	3/4/2022	14	No	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-13	21	n/a	3/3/2022	3	No	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-14A	21	n/a	3/3/2022	1.3	No	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-15	21	n/a	3/3/2022	18	No	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	3/3/2022	57	Yes	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-17	21	n/a	3/4/2022	3.6	No	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-19	21	n/a	3/3/2022	4.8	No	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	3/3/2022	250	Yes	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	3/3/2022	58	Yes	143	n/a	n/a	23.78	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-10	190	n/a	3/3/2022	45	No	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-11	190	n/a	3/3/2022	21	No	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-12	190	n/a	3/4/2022	89	No	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-13	190	n/a	3/3/2022	71	No	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-14A	190	n/a	3/3/2022	17	No	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-15	190	n/a	3/3/2022	140	No	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-16	190	n/a	3/3/2022	170	No	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-17	190	n/a	3/4/2022	55	No	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-19	190	n/a	3/3/2022	98	No	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	3/3/2022	530	Yes	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-9	190	n/a	3/3/2022	140	No	143	n/a	n/a	6.993	n/a	n/a	0.00009593	NP Inter (normality) 1 of 2

Exceeds Limit: WGWC-16, WGWC-8, WGWC-9

Prediction Limit
Interwell Non-parametric

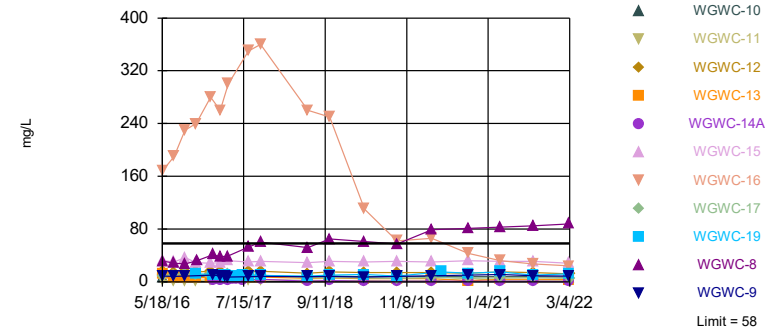


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 143 background values. 97.2% NDs. Annual per-constituent alpha = 0.002108. Individual comparison alpha = 0.00009593 (1 of 2). Comparing 11 points to limit.

Constituent: Boron, total Analysis Run 6/28/2022 1:15 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-8

Prediction Limit
Interwell Non-parametric

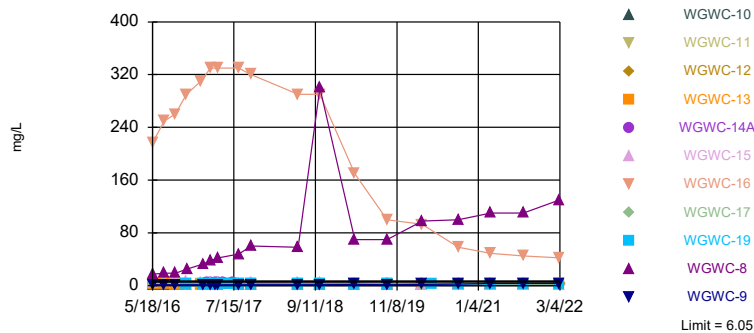


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 143 background values. Annual per-constituent alpha = 0.002108. Individual comparison alpha = 0.00009593 (1 of 2). Comparing 11 points to limit.

Constituent: Calcium, total Analysis Run 6/28/2022 1:15 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-16, WGWC-8

Prediction Limit
Interwell Non-parametric

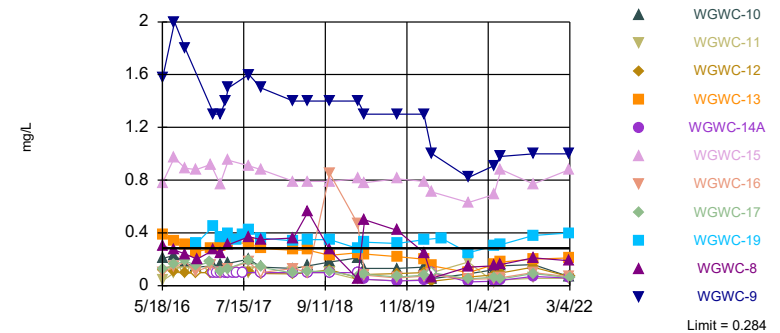


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 143 background values. Annual per-constituent alpha = 0.002108. Individual comparison alpha = 0.00009593 (1 of 2). Comparing 11 points to limit.

Constituent: Chloride, Total Analysis Run 6/28/2022 1:15 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Exceeds Limit: WGWC-15, WGWC-19, WGWC-9

Prediction Limit
Interwell Non-parametric

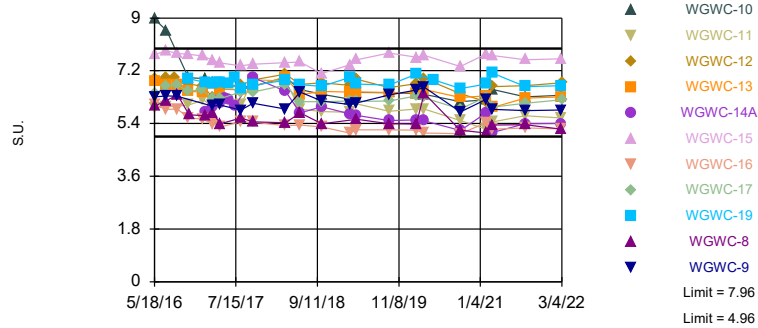


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 175 background values. 45.71% NDs. Annual per-constituent alpha = 0.001418. Individual comparison alpha = 0.00006448 (1 of 2). Comparing 11 points to limit.

Constituent: Fluoride, total Analysis Run 6/28/2022 1:15 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Within Limits

Prediction Limit
Interwell Non-parametric



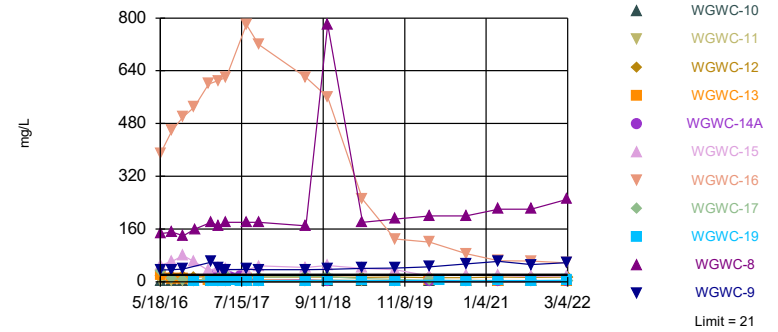
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 174 background values. Annual per-constituent alpha = 0.00287. Individual comparison alpha = 0.0001305 (1 of 2). Comparing 11 points to limit.

Constituent: pH, Field Analysis Run 6/28/2022 1:15 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Exceeds Limit: WGWC-16, WGWC-8, WGWC-9

Prediction Limit
Interwell Non-parametric



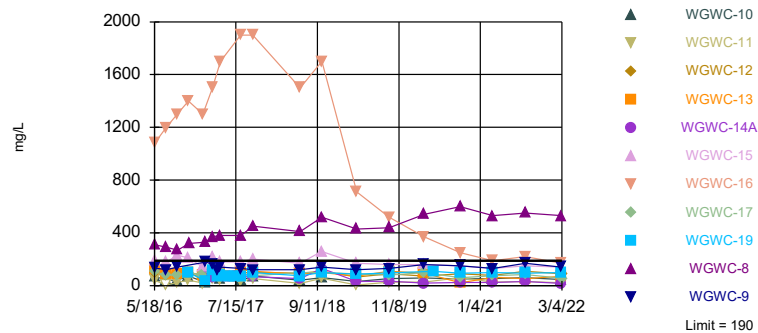
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 143 background values. 23.78% NDs. Annual per-constituent alpha = 0.002108. Individual comparison alpha = 0.00009593 (1 of 2). Comparing 11 points to limit.

Constituent: Sulfate as SO4 Analysis Run 6/28/2022 1:15 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Exceeds Limit: WGWC-8

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 143 background values. 6.993% NDs. Annual per-constituent alpha = 0.002108. Individual comparison alpha = 0.00009593 (1 of 2). Comparing 11 points to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/28/2022 1:15 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWC-17	WGWA-5 (bg)	WGWC-16	WGWA-6 (bg)
5/17/2016	<0.08	<0.08	<0.08						
5/18/2016				<0.08	<0.08	<0.08	<0.08	4.48	<0.08
5/19/2016									
7/19/2016	<0.08	<0.08	<0.08				<0.08	4.7	<0.08
7/20/2016				<0.08	<0.08	<0.08			
9/13/2016	<0.08	<0.08	<0.08	<0.08	<0.08				<0.08
9/14/2016						<0.08	<0.08	5.8	
9/15/2016									
11/9/2016	<0.08	<0.08	<0.08						<0.08
11/10/2016				<0.08	<0.08	<0.08		6.7	
11/11/2016									
11/14/2016									
1/17/2017	<0.08		<0.08						
1/18/2017				<0.08	<0.08				<0.08
1/19/2017		<0.08					<0.08		
1/20/2017						<0.08			
1/24/2017								6.3	
1/27/2017									
2/6/2017									
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<0.08		<0.08						
3/14/2017		<0.08		<0.08	<0.08	<0.08	<0.08		<0.08
3/15/2017								5.9	
3/17/2017									
4/11/2017									
4/24/2017	<0.08		<0.08						
4/25/2017		<0.08		<0.08	<0.08	<0.08	<0.08	6.2	<0.08
4/26/2017									
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<0.08	<0.08	<0.08	<0.08					<0.08
8/9/2017					<0.08	<0.08	<0.08	6.3	
8/10/2017									
10/10/2017	<0.08		<0.08						
10/11/2017		<0.08		<0.08	<0.08	<0.08	<0.08	6.8	<0.08
10/12/2017									
6/13/2018	<0.08	<0.08					<0.08		<0.08
6/14/2018			<0.08	<0.08	<0.08	<0.08		5.4	
9/24/2018			<0.08						
9/27/2018	<0.08								
9/28/2018		<0.08							
10/2/2018									<0.08
10/3/2018				<0.08	<0.08		<0.08		
10/4/2018						<0.08		5.5	
4/1/2019	<0.08		<0.08						
4/2/2019		<0.08		<0.08	<0.08		<0.08		<0.08
4/3/2019									
4/4/2019						0.049 (J)		3.2	
9/16/2019	<0.08						<0.08		<0.08

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWC-17	WGWA-5 (bg)	WGWC-16	WGWA-6 (bg)
9/17/2019		<0.08	<0.08		<0.08				
9/18/2019				<0.08		<0.08		2.1	
9/19/2019									
3/16/2020	<0.08		0.048 (J)						
3/17/2020		<0.08		<0.08	<0.08		<0.08		<0.08
3/18/2020						0.049 (J)		2	
3/19/2020									
5/4/2020									
9/21/2020			<0.08	<0.08	<0.08				
9/22/2020	<0.08	<0.08					<0.08		<0.08
9/23/2020						<0.08		1.5	
9/24/2020									
3/10/2021		<0.08	0.039 (J)	<0.08	<0.08		<0.08		
3/11/2021	<0.08					<0.08		1.1	<0.08
3/12/2021									
8/23/2021			<0.08						
8/24/2021	<0.08				<0.08		<0.08		<0.08
8/25/2021		0.1		<0.08		<0.08		0.89	
8/26/2021									
2/28/2022					<0.08				
3/1/2022	<0.08		<0.08	<0.08			<0.08		<0.08
3/3/2022		0.1						0.79	
3/4/2022						<0.08			

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-15	WGWC-10	WGWC-11	WGWC-13	WGWC-8	WGWC-12	WGWC-9	WGWC-19
9/17/2019									
9/18/2019	<0.08	<0.08			<0.08				<0.08
9/19/2019			<0.08	<0.08		1.7	<0.08	0.39	
3/16/2020									
3/17/2020	<0.08								
3/18/2020		0.071 (J)	0.049 (J)	<0.08			0.039 (J)		
3/19/2020					0.053 (J)	2.2		0.55	
5/4/2020									<0.08
9/21/2020									
9/22/2020	<0.08					2.5			
9/23/2020		<0.08	<0.08				<0.08	0.68	<0.08
9/24/2020				<0.08	<0.08				
3/10/2021	<0.08								
3/11/2021			<0.08		<0.08	2.4			<0.08
3/12/2021		<0.08		<0.08			<0.08	0.64	
8/23/2021									
8/24/2021	<0.08								
8/25/2021				<0.08	0.063 (J)		<0.08		
8/26/2021		<0.08	<0.08			2.4		0.56	<0.08
2/28/2022									
3/1/2022									
3/3/2022	<0.08	<0.08	<0.08	<0.08	<0.08	2.7		0.62	<0.08
3/4/2022							<0.08		

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	<0.08
2/9/2017	
2/23/2017	<0.08
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	<0.08
4/11/2017	<0.08
4/24/2017	
4/25/2017	
4/26/2017	<0.08
5/17/2017	<0.08
6/7/2017	<0.08
7/11/2017	<0.08
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	<0.08
10/12/2017	
6/13/2018	
6/14/2018	<0.08
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	<0.08
4/1/2019	
4/2/2019	
4/3/2019	<0.08
4/4/2019	
9/16/2019	

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

9/17/2019	
9/18/2019	<0.08
9/19/2019	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.039 (J)
5/4/2020	
9/21/2020	
9/22/2020	
9/23/2020	
9/24/2020	<0.08
3/10/2021	
3/11/2021	<0.08
3/12/2021	
8/23/2021	
8/24/2021	
8/25/2021	0.043 (J)
8/26/2021	
2/28/2022	
3/1/2022	
3/3/2022	<0.08
3/4/2022	

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWC-17	WGWA-5 (bg)	WGWC-16	WGWA-6 (bg)
5/17/2016	0.927	23.7	12.2						
5/18/2016				2.1	17.9	8.24	1.7	168	27
5/19/2016									
7/19/2016	1	23	13				1.5	190	23
7/20/2016				1.7	15	11			
9/13/2016	0.44	23	13	1.3	16				25
9/14/2016						12	52	230	
9/15/2016									
11/9/2016	1.1	6.7	19						25
11/10/2016				1.6	15	11		240	
11/11/2016									
11/14/2016									
1/17/2017	1.4		28						
1/18/2017				1.7	17				26
1/19/2017		8.5					13		
1/20/2017						10			
1/24/2017								280	
1/27/2017									
2/6/2017									
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	1.1		14						
3/14/2017		13		1.8	17	8.8	1.6		20
3/15/2017								260	
3/17/2017									
4/11/2017									
4/24/2017	1.1		12						
4/25/2017		23		2	17	12	1.5	300	28
4/26/2017									
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	1.1	24	18	2					26
8/9/2017					15	11	1.3	350	
8/10/2017									
10/10/2017	1.2		21						
10/11/2017		23		2.1	17	10	1.5	360	29
10/12/2017									
6/13/2018	1.1	11					1.2		25
6/14/2018			12	2	15	6.2		260	
9/24/2018			11						
9/27/2018	1.2								
9/28/2018		11							
10/2/2018									26
10/3/2018				1.8	16		1.4		
10/4/2018						6.4		250	
4/1/2019	1		12						
4/2/2019		20		1.8	15		1.1		25
4/3/2019									
4/4/2019						5.6		110	
9/16/2019	1.3						36		25

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWC-17	WGWA-5 (bg)	WGWC-16	WGWA-6 (bg)
9/17/2019		10	13		16				
9/18/2019				1.6		5.5		62	
9/19/2019									
3/16/2020	1.1		10						
3/17/2020		10		1.7	15		1.4		26
3/18/2020						6.3		66	
3/19/2020									
5/4/2020									
9/21/2020			13	1.8	16				
9/22/2020	1.2	19					58		25
9/23/2020						5.9		43	
9/24/2020									
3/10/2021		7.7	11	1.9	16		1.3		
3/11/2021	1.3					5.7		32	26
3/12/2021									
8/23/2021			13						
8/24/2021	1.2				15		47		26
8/25/2021		16		1.7		6		27	
8/26/2021									
2/28/2022					14				
3/1/2022	1.1		13	1.6			2.1		22
3/3/2022		6.1						24	
3/4/2022						5.3			

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-15	WGWC-10	WGWC-11	WGWC-13	WGWC-8	WGWC-12	WGWC-9	WGWC-19
9/17/2019									
9/18/2019	1.5	31			4.9				8.8
9/19/2019			7.5	1.4		57	14	8.1	
3/16/2020									
3/17/2020	0.82								
3/18/2020		30	7.5	1.6			14		
3/19/2020					5	79		9.3	
5/4/2020									15
9/21/2020									
9/22/2020	0.89					81			
9/23/2020		32	7.7				13	10	13
9/24/2020				5.2	1.4				
3/10/2021	0.89								
3/11/2021			7.9		4	83			15
3/12/2021		31		1.6			15	11	
8/23/2021									
8/24/2021	1.7								
8/25/2021				1.5	4		14		
8/26/2021		31	7.6			85		9.3	10
2/28/2022									
3/1/2022									
3/3/2022	1.4	28	7.1	1.3	3.4	88		8.6	12
3/4/2022							12		

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	3.2
2/9/2017	
2/23/2017	4.1
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	2.4
4/11/2017	4.1
4/24/2017	
4/25/2017	
4/26/2017	2.5
5/17/2017	5.2
6/7/2017	5.2
7/11/2017	2.3
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	3.8
10/12/2017	
6/13/2018	
6/14/2018	1.1
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	2
4/1/2019	
4/2/2019	
4/3/2019	0.84
4/4/2019	
9/16/2019	

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

9/17/2019	
9/18/2019	0.85
9/19/2019	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.89
5/4/2020	
9/21/2020	
9/22/2020	
9/23/2020	
9/24/2020	0.99
3/10/2021	
3/11/2021	0.79
3/12/2021	
8/23/2021	
8/24/2021	
8/25/2021	0.7
8/26/2021	
2/28/2022	
3/1/2022	
3/3/2022	0.65
3/4/2022	

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWC-17	WGWA-5 (bg)	WGWC-16	WGWA-6 (bg)
5/17/2016	3.8	6.05	2.5						
5/18/2016				1.92	1.45	2.72	2.14	217	1.58
5/19/2016									
7/19/2016	3.9	4	2.6				2.4	250	1.6
7/20/2016				1.8	1.4	1.9			
9/13/2016	3.6	3.1	2.4	1.7	1.4				1.4
9/14/2016						1.6	2.1	260	
9/15/2016									
11/9/2016	3.9	2.3	2.3						1.5
11/10/2016				1.6	1.3	1.6		290	
11/11/2016									
11/14/2016									
1/17/2017	3.8		2.3						
1/18/2017				1.7	1.3				1.5
1/19/2017		2					1.8		
1/20/2017						1.5			
1/24/2017								310	
1/27/2017									
2/6/2017									
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	3.4		2.2						
3/14/2017		1.9		1.6	1.2	1.5	2		2.5
3/15/2017								330	
3/17/2017									
4/11/2017									
4/24/2017	3.4		2.2						
4/25/2017		1.9		1.6	1.2	1.8	1.8	330	1.3
4/26/2017									
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	3.6	2	2.3	1.7					1.4
8/9/2017					1.2	1.4	1.9	330	
8/10/2017									
10/10/2017	3.6		2.5						
10/11/2017		1.9		1.6	1.2	1.5	2.1	320	1.3
10/12/2017									
6/13/2018	3.8	2					1.7		1.4
6/14/2018			2.3	1.6	1.2	1.5		290	
9/24/2018			2.4						
9/27/2018	4								
9/28/2018		2.1							
10/2/2018									1.4
10/3/2018				1.6	1.2		1.8		
10/4/2018						1.5		290	
4/1/2019	4		2.4						
4/2/2019		2.6		1.7	1.2		1.7		1.5
4/3/2019									
4/4/2019						1.4		170	
9/16/2019	4						1.8		1.5

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWC-17	WGWA-5 (bg)	WGWC-16	WGWA-6 (bg)
9/17/2019		2	2.4		1.2				
9/18/2019				1.7		1.5		100	
9/19/2019									
3/16/2020	4.3		2.7						
3/17/2020		2.3		1.8	1.4		1.6		1.7
3/18/2020						1.5		93	
3/19/2020									
5/4/2020									
9/21/2020			2.5	1.5	1.2				
9/22/2020	4	2.1					1.5		1.4
9/23/2020						1.2		58	
9/24/2020									
3/10/2021		1.9	2.6	1.8	1.2		1.8		
3/11/2021	4.5					1.3		49	1.5
3/12/2021									
8/23/2021			3.3						
8/24/2021	5.1				1.5		2.1		1.8
8/25/2021		2.3		1.9		1.6		45	
8/26/2021									
2/28/2022					1.2				
3/1/2022	4.1		2.7	1.8			1.5		1.5
3/3/2022		2						42	
3/4/2022						1.3			

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-15	WGWC-10	WGWC-11	WGWC-13	WGWC-8	WGWC-12	WGWC-9	WGWC-19
9/17/2019									
9/18/2019	2	3.2			1.2				2.7
9/19/2019			1.5	3.2		70	3.2	1.5	
3/16/2020									
3/17/2020	2.2								
3/18/2020		1.7	1.5	3.2			3.2		
3/19/2020					1.3	98		2.1	
5/4/2020									2.8
9/21/2020									
9/22/2020	1.8					100			
9/23/2020		1.5	1.3				2.8	2.4	2.6
9/24/2020				1	1.6				
3/10/2021	1.9								
3/11/2021			1.7		1.2	110			2.9
3/12/2021		1.6		3.6			3.5	3.4	
8/23/2021									
8/24/2021	1.9								
8/25/2021				3.5	1.2		3.7		
8/26/2021		1.4	1.6			110		3.1	3.3
2/28/2022									
3/1/2022									
3/3/2022	2.1	1.4	1.6	3.6	1	130		3.5	3.2
3/4/2022							3.2		

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	2.5
2/9/2017	
2/23/2017	4.3
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	4.8
4/11/2017	3.8
4/24/2017	
4/25/2017	
4/26/2017	4.8
5/17/2017	3.9
6/7/2017	3.2
7/11/2017	4.1
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	2.2
10/12/2017	
6/13/2018	
6/14/2018	2.8
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	2.2
4/1/2019	
4/2/2019	
4/3/2019	2.4
4/4/2019	
9/16/2019	

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

9/17/2019	
9/18/2019	2.2
9/19/2019	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	1.9
5/4/2020	
9/21/2020	
9/22/2020	
9/23/2020	
9/24/2020	3.1
3/10/2021	
3/11/2021	2.6
3/12/2021	
8/23/2021	
8/24/2021	
8/25/2021	2.8
8/26/2021	
2/28/2022	
3/1/2022	
3/3/2022	2.4
3/4/2022	

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWA-5 (bg)	WGWA-3 (bg)	WGWA-6 (bg)	WGWC-16	WGWA-4 (bg)	WGWC-15
5/17/2016	0.0131 (J)	0.0538 (J)	0.284 (J)						
5/18/2016				0.014 (J)	0.029 (J)	0.106 (J)	0.1 (J)	0.164 (J)	0.779
5/19/2016									
7/19/2016	<0.1	<0.1	0.21	<0.1		0.11 (J)	0.14 (J)		0.97
7/20/2016					<0.1			0.17 (J)	
9/13/2016	<0.1	<0.1	0.15 (J)		<0.1	0.11 (J)		0.15 (J)	
9/14/2016				0.095 (J)			0.18 (J)		0.89
9/15/2016									
11/9/2016	<0.1	0.085 (J)	<0.1			0.1 (J)			
11/10/2016					<0.1		0.11 (J)	0.12 (J)	0.88
11/11/2016									
11/14/2016									
1/17/2017	<0.1	<0.1							
1/18/2017					<0.1	0.11 (J)		0.15 (J)	
1/19/2017			0.087 (J)	<0.1					
1/20/2017									
1/24/2017							0.15 (J)		0.92
1/27/2017									
2/6/2017									
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<0.1	<0.1							
3/14/2017			<0.1	<0.1	<0.1	<0.1		0.13 (J)	0.77
3/15/2017							0.1 (J)		
3/17/2017									
4/11/2017									
4/24/2017	<0.1	<0.1							
4/25/2017			<0.1	<0.1	<0.1	<0.1	0.13 (J)	0.12 (J)	0.95
4/26/2017									
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<0.1	<0.1	0.087 (J)		<0.1	0.099 (J)			
8/9/2017				<0.1			0.18 (J)	0.14 (J)	0.91
8/10/2017									
10/10/2017	<0.1	0.18 (J)							
10/11/2017			0.09 (J)	<0.1	<0.1	0.098 (J)	<0.1	0.14 (J)	0.88
10/12/2017									
3/27/2018	<0.1	<0.1							
3/28/2018			0.11 (J)	<0.1	<0.1	0.088 (J)		0.12 (J)	
3/29/2018							0.13 (J)		
3/30/2018									0.79
6/13/2018	<0.1		0.085 (J)	<0.1		0.093 (J)			
6/14/2018		<0.1			<0.1		<0.1	0.12 (J)	0.79
9/24/2018		<0.1							
9/27/2018	<0.1								
9/28/2018			0.082 (J)						
10/2/2018						0.13 (J)			
10/3/2018				<0.1	<0.1			0.13 (J)	0.79
10/4/2018							0.85 (J)		
2/25/2019	<0.1	0.032 (J)							

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-9	WGWC-13	WGWC-12	WGWC-8	WGWC-19
2/26/2019	0.068 (J)	<0.1							
2/27/2019			0.21	0.047 (J)		0.25	0.06 (J)	0.054 (J)	
2/28/2019					1.4				0.28
4/1/2019									
4/2/2019		<0.1							0.33
4/3/2019				0.048 (J)	1.3	0.24	0.084 (J)	0.5	
4/4/2019	0.087 (J)		0.13 (J)						
9/16/2019									
9/17/2019									
9/18/2019	0.066 (J)	0.027 (J)				0.22			0.32
9/19/2019			0.13 (J)	0.037 (J)	1.3		0.093 (J)	0.42	
2/3/2020									
2/4/2020									
2/5/2020		0.026 (J)	0.14	0.045 (J)	1.3	0.2	0.098 (J)		
2/7/2020	0.079 (J)							0.25	0.35
3/16/2020									
3/17/2020		0.044 (J)							
3/18/2020	<0.1		0.052 (J)	<0.1			0.033 (J)		
3/19/2020					1	0.15		0.057 (J)	
5/4/2020									0.36
9/21/2020									
9/22/2020		<0.1						0.14	
9/23/2020	0.05 (J)		0.09 (J)		0.82		0.064 (J)		0.25
9/24/2020				0.18		<0.1			
2/2/2021		<0.1							
2/3/2021				0.027 (J)			0.082 (J)	0.15	0.3
2/4/2021	0.064 (J)		0.12		0.91	0.16			
3/10/2021		<0.1							
3/11/2021	0.05 (J)		0.15			0.18		0.16	0.31
3/12/2021				0.044 (J)	0.98		0.096 (J)		
8/23/2021									
8/24/2021		0.054 (J)							
8/25/2021	0.093 (J)			0.056 (J)		0.2	0.14		
8/26/2021			0.16		1			0.21	0.38
2/28/2022									
3/1/2022									
3/3/2022		0.038 (J)	0.067 (J)	0.055 (J)	1	0.21		0.19	0.4
3/4/2022	0.06 (J)						0.068 (J)		

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	<0.1
2/9/2017	
2/23/2017	<0.1
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	<0.1
4/11/2017	<0.1
4/24/2017	
4/25/2017	
4/26/2017	<0.1
5/17/2017	<0.1
6/7/2017	<0.1
7/11/2017	<0.1
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	<0.1
10/12/2017	
3/27/2018	
3/28/2018	
3/29/2018	<0.1
3/30/2018	
6/13/2018	
6/14/2018	<0.1
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	<0.1
2/25/2019	

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A
2/26/2019	
2/27/2019	<0.1
2/28/2019	
4/1/2019	
4/2/2019	
4/3/2019	0.048 (J)
4/4/2019	
9/16/2019	
9/17/2019	
9/18/2019	0.035 (J)
9/19/2019	
2/3/2020	
2/4/2020	
2/5/2020	0.04 (J)
2/7/2020	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.1
5/4/2020	
9/21/2020	
9/22/2020	
9/23/2020	
9/24/2020	0.028 (J)
2/2/2021	
2/3/2021	
2/4/2021	0.033 (J)
3/10/2021	
3/11/2021	0.04 (J)
3/12/2021	
8/23/2021	
8/24/2021	
8/25/2021	0.071 (J)
8/26/2021	
2/28/2022	
3/1/2022	
3/3/2022	0.057 (J)
3/4/2022	

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 6/28/2022 1:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-10	WGWA-7 (bg)	WGWC-15	WGWA-6 (bg)	WGWC-16	WGWC-17
5/17/2016	5.24	6.23	7.81						
5/18/2016				8.96	5.5	7.75	7.92	6.06	6.41
5/19/2016									
7/18/2016	5.434038							5.884339	
7/19/2016		6.285413			5.43	7.876073	7.154587		
7/20/2016				8.56774					6.662463
9/1/2016									
9/13/2016	5.22	6.3	7.18		5.57		7.96		
9/14/2016						7.79		5.89	6.7
9/15/2016									
11/9/2016	5.57	6.26	6.03				7.27		
11/10/2016					6.93	7.76		5.6	6.51
11/11/2016				6.96					
11/14/2016									
1/17/2017	5.48	6.8							
1/18/2017					7.16		7.72		
1/19/2017			6.71						
1/20/2017									6.55
1/24/2017						7.71		5.54	
1/27/2017									
2/6/2017				6.93					
2/8/2017									
2/23/2017									
3/13/2017	5.4	6.18							
3/14/2017			6.45		5.82	7.57			6.27
3/15/2017				6.82				5.39	
3/17/2017									
4/11/2017									
4/24/2017	5.4	6.35							
4/25/2017			6.93		5.57	7.47	7.73	5.28	6.26
4/26/2017				6.73					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	5.32	6.23	6.72		5.6		7.74		
8/9/2017						7.37		5.46	6.47
8/10/2017				6.66					
8/25/2017									
10/10/2017	5.26	6.32							
10/11/2017			6.75		5.43	7.42	7.71	5.45	6.47
10/12/2017				6.67					
3/27/2018	5.39	6.14							
3/28/2018			6.84		5.29		7.28		
3/29/2018								5.33	
3/30/2018				6.98		7.48			6.71
6/13/2018	5.33		6.31				7.78		
6/14/2018		6.02		6.56	5.39	7.5		5.35	6.15
9/24/2018		6.1							
9/27/2018	5.33								
9/28/2018			6.26						
10/2/2018							7.52		
10/3/2018					5.33	7.11			

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 6/28/2022 1:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWA-5 (bg)	WGWC-11	WGWC-9	WGWC-8	WGWC-13	WGWC-12	WGWC-19
5/17/2016									
5/18/2016	7.23	5.55	5.47						
5/19/2016				5.93	6.31	5.99	6.85	6.91	
7/18/2016				5.9661					
7/19/2016			5.336672						
7/20/2016	7.281557	5.656628			6.345061	6.194334	6.705264	6.962608	
9/1/2016								6.96	
9/13/2016	7.15	5.63							
9/14/2016			7.29		6.33		6.7		
9/15/2016						6.38			
11/9/2016									
11/10/2016	6.33	5.61					6.5		
11/11/2016				6.03				6.76	6.93
11/14/2016						5.7			
1/17/2017									
1/18/2017	6.94	5.81							
1/19/2017			6.59						
1/20/2017									
1/24/2017									
1/27/2017				6.21			6.47	6.66	
2/6/2017						5.66			6.8
2/8/2017									
2/23/2017									
3/13/2017									
3/14/2017	6.75	5.53	5.86						
3/15/2017				5.97	5.99	5.77	6.75	6.3	6.78
3/17/2017									
4/11/2017									6.79
4/24/2017									
4/25/2017	6.84	5.59	5.35						
4/26/2017				6.17	6.03	5.39	6.57	6.67	6.82
5/17/2017									
6/7/2017									6.76
7/11/2017									6.99
8/8/2017		5.52							
8/9/2017	6.67		5.25				6.55		
8/10/2017				6.05	5.86	5.59		6.7	6.59
8/25/2017			5.44						
10/10/2017									
10/11/2017	6.75	5.51	6.99						
10/12/2017				6.89	6.09	5.46	6.67	6.89	6.7
3/27/2018									
3/28/2018	6.79	5.6	5.95						
3/29/2018				6.85	5.89	5.43	6.99	7.08	6.88
3/30/2018									
6/13/2018			5.13						
6/14/2018	6.67	5.58		5.89	6.47	5.76	6.39	6.73	6.72
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018	6.92	5.45	5.22						

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 6/28/2022 1:17 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/18/2016	
7/19/2016	
7/20/2016	
9/1/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	5.81
2/23/2017	5.8
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	5.97
4/11/2017	6.18
4/24/2017	
4/25/2017	
4/26/2017	6.09
5/17/2017	6.26
6/7/2017	6.21
7/11/2017	6
8/8/2017	
8/9/2017	
8/10/2017	
8/25/2017	
10/10/2017	
10/11/2017	6.97
10/12/2017	
3/27/2018	
3/28/2018	
3/29/2018	6.51
3/30/2018	
6/13/2018	
6/14/2018	5.76
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 6/28/2022 1:17 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A
10/4/2018	5.97
2/25/2019	
2/26/2019	
2/27/2019	5.73
2/28/2019	
4/1/2019	
4/2/2019	
4/3/2019	5.68
4/4/2019	
9/16/2019	
9/17/2019	
9/18/2019	5.5
9/19/2019	
2/3/2020	
2/4/2020	
2/5/2020	5.52
2/7/2020	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	5.49
5/4/2020	
9/21/2020	
9/22/2020	
9/23/2020	
9/24/2020	5.16
2/2/2021	
2/3/2021	
2/4/2021	5.76
3/10/2021	
3/11/2021	5.1
3/12/2021	
8/23/2021	
8/24/2021	
8/25/2021	5.39
8/26/2021	
2/28/2022	
3/1/2022	
3/3/2022	5.4
3/4/2022	

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWC-17	WGWA-5 (bg)	WGWC-16	WGWA-6 (bg)
5/17/2016	<1	19.9	1.14						
5/18/2016				0.821 (J)	5.32	32.1	0.955 (J)	388	8.88
5/19/2016									
7/19/2016	<1	14	1.4				0.76 (J)	460	9
7/20/2016				0.82 (J)	6.5	9.7			
9/13/2016	<1	11	1.1	0.81 (J)	5.6				8.5
9/14/2016						6.6	3.4	500	
9/15/2016									
11/9/2016	<1	6.3	1.1						8.2
11/10/2016				0.73 (J)	5.4	5.2		530	
11/11/2016									
11/14/2016									
1/17/2017	<1		2.1						
1/18/2017				0.99 (J)	5.1				9.4
1/19/2017		7.4					21		
1/20/2017						5.3			
1/24/2017								600	
1/27/2017									
2/6/2017									
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<1		0.97 (J)						
3/14/2017		10		0.83 (J)	4.6	9.6	1.4		2
3/15/2017								610	
3/17/2017									
4/11/2017									
4/24/2017	<1		0.75 (J)						
4/25/2017		10		0.7 (J)	6.6	20	0.89 (J)	620	8.2
4/26/2017									
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<1	12	1.1	0.82 (J)					8.5
8/9/2017					7.3	6.5	0.75 (J)	780	
8/10/2017									
10/10/2017	<1		1.3						
10/11/2017		11		0.72 (J)	6.8	13	<1	720	8.3
10/12/2017									
6/13/2018	<1	8.2					<1		8.3
6/14/2018			0.84 (J)	<1	6.9	16		620	
9/24/2018			0.79 (J)						
9/27/2018	<1								
9/28/2018		7.6							
10/2/2018									8.3
10/3/2018				0.73 (J)	7		<1		
10/4/2018						15		560	
4/1/2019	<1		1						
4/2/2019		11		1.1	8.1		0.94 (J)		8.5
4/3/2019									
4/4/2019						9.1		250	
9/16/2019	0.49 (J)						2.2		8.9

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWC-17	WGWA-5 (bg)	WGWC-16	WGWA-6 (bg)
9/17/2019		8	1.3		8.1				
9/18/2019				0.78 (J)		7.3		130	
9/19/2019									
3/16/2020	0.42 (J)		1.3						
3/17/2020		8.5		1.2	12		4		12
3/18/2020						4.2		120	
3/19/2020									
5/4/2020									
9/21/2020			1.1	0.77 (J)	7.7				
9/22/2020	<1	9					1.5		8
9/23/2020						4.4		85	
9/24/2020									
3/10/2021		7.1	0.9 (J)	0.91 (J)	8.1		<1		
3/11/2021	<1					3.9		64	8.4
3/12/2021									
8/23/2021			1.3						
8/24/2021	<1				7.9		2.8		8.9
8/25/2021		8.2		0.79 (J)		3.3		63	
8/26/2021									
2/28/2022					8.4				
3/1/2022	<1		1.6	0.98 (J)			0.99 (J)		9.2
3/3/2022		8.5						57	
3/4/2022						3.6			

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-15	WGWC-10	WGWC-11	WGWC-13	WGWC-8	WGWC-12	WGWC-9	WGWC-19
9/17/2019									
9/18/2019	<1	37			3.9				3.6
9/19/2019			2.1	1.3		190	14	42	
3/16/2020									
3/17/2020	0.86 (J)								
3/18/2020		17	2.1	1.6			12		
3/19/2020					4	200		45	
5/4/2020									4.5
9/21/2020									
9/22/2020	0.38 (J)					200			
9/23/2020		21	1.8				12	54	3
9/24/2020				2.7	0.63 (J)				
3/10/2021	<1								
3/11/2021			2.8		2.9	220			4
3/12/2021		19		2			14	62	
8/23/2021									
8/24/2021	<1								
8/25/2021				1.1	1.8		13		
8/26/2021		16	1.8			220		52	3.5
2/28/2022									
3/1/2022									
3/3/2022	<1	18	2	2.3	3	250		58	4.8
3/4/2022							14		

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	4.3
2/9/2017	
2/23/2017	16
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	22
4/11/2017	13
4/24/2017	
4/25/2017	
4/26/2017	20
5/17/2017	12
6/7/2017	8.1
7/11/2017	17
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	3.4
10/12/2017	
6/13/2018	
6/14/2018	5.8
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	2.8
4/1/2019	
4/2/2019	
4/3/2019	3.8
4/4/2019	
9/16/2019	

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

9/17/2019	
9/18/2019	1.7
9/19/2019	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	1.5
5/4/2020	
9/21/2020	
9/22/2020	
9/23/2020	
9/24/2020	1.2
3/10/2021	
3/11/2021	1.7
3/12/2021	
8/23/2021	
8/24/2021	
8/25/2021	<1
8/26/2021	
2/28/2022	
3/1/2022	
3/3/2022	1.3
3/4/2022	

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWC-17	WGWA-5 (bg)	WGWC-16	WGWA-6 (bg)
5/17/2016	<10	112	100						
5/18/2016				29	101	107	33	1080	113
5/19/2016									
7/19/2016	14	80	84				<10	1200	92
7/20/2016				<10	86	78			
9/13/2016	50	120	70	12	28				100
9/14/2016						82	150	1300	
9/15/2016									
11/9/2016	22	76	110						130
11/10/2016				30	110	98		1400	
11/11/2016									
11/14/2016									
1/17/2017	8		120						
1/18/2017				22	98				120
1/19/2017		36					34		
1/20/2017						82			
1/24/2017								1300	
1/27/2017									
2/6/2017									
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<10		58						
3/14/2017		70		22	110	120	32		110
3/15/2017								1500	
3/17/2017									
4/11/2017									
4/24/2017	10		94						
4/25/2017		70		22	86	120	22	1700	100
4/26/2017									
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<10	72	62	4 (J)					90
8/9/2017					92	92	20	1900	
8/10/2017									
10/10/2017	44		140						
10/11/2017		90		10	110	74	4 (J)	1900	98
10/12/2017									
6/13/2018	24	38					<10		110
6/14/2018			80	26	92	100		1500	
9/24/2018			76						
9/27/2018	28								
9/28/2018		68							
10/2/2018									130
10/3/2018				50	100		24		
10/4/2018						98		1700	
4/1/2019	<10		63						
4/2/2019		100		28	100		25		110
4/3/2019									
4/4/2019						89		710	
9/16/2019	27						41		110

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWC-17	WGWA-5 (bg)	WGWC-16	WGWA-6 (bg)
9/17/2019		76	120		120				
9/18/2019				36		79		520	
9/19/2019									
3/16/2020	23		90						
3/17/2020		81		20	100		18		120
3/18/2020						98		370	
3/19/2020									
5/4/2020									
9/21/2020			100	22	92				
9/22/2020	24	96					190		130
9/23/2020						60		250	
9/24/2020									
3/10/2021		72	100	20	100		19		
3/11/2021	24					75		190	110
3/12/2021									
8/23/2021			110						
8/24/2021	32				110		150		120
8/25/2021		92		21		84		220	
8/26/2021									
2/28/2022					95				
3/1/2022	30		92	31			23		140
3/3/2022		43						170	
3/4/2022						55			

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-7 (bg)	WGWC-15	WGWC-10	WGWC-11	WGWC-13	WGWC-8	WGWC-12	WGWC-9	WGWC-19
9/17/2019									
9/18/2019	35	160			110				96
9/19/2019			52	27		440	89	130	
3/16/2020									
3/17/2020	19								
3/18/2020		160	58	26			73		
3/19/2020					95	540		160	
5/4/2020									110
9/21/2020									
9/22/2020	15					600			
9/23/2020		150	50				90	150	94
9/24/2020				60	21				
3/10/2021	20								
3/11/2021			52		63	530			100
3/12/2021		130		27			78	130	
8/23/2021									
8/24/2021	24								
8/25/2021				32	53		110		
8/26/2021		150	60			550		170	94
2/28/2022									
3/1/2022									
3/3/2022	17	140	45	21	71	530		140	98
3/4/2022							89		

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

5/17/2016	
5/18/2016	
5/19/2016	
7/19/2016	
7/20/2016	
9/13/2016	
9/14/2016	
9/15/2016	
11/9/2016	
11/10/2016	
11/11/2016	
11/14/2016	
1/17/2017	
1/18/2017	
1/19/2017	
1/20/2017	
1/24/2017	
1/27/2017	
2/6/2017	
2/8/2017	54
2/9/2017	
2/23/2017	78
3/13/2017	
3/14/2017	
3/15/2017	
3/17/2017	56
4/11/2017	76
4/24/2017	
4/25/2017	
4/26/2017	76
5/17/2017	68
6/7/2017	72
7/11/2017	68
8/8/2017	
8/9/2017	
8/10/2017	
10/10/2017	
10/11/2017	68
10/12/2017	
6/13/2018	
6/14/2018	52
9/24/2018	
9/27/2018	
9/28/2018	
10/2/2018	
10/3/2018	
10/4/2018	130
4/1/2019	
4/2/2019	
4/3/2019	31
4/4/2019	
9/16/2019	

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/28/2022 1:17 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

WGWC-14A

9/17/2019	
9/18/2019	33
9/19/2019	
3/16/2020	
3/17/2020	
3/18/2020	
3/19/2020	18
5/4/2020	
9/21/2020	
9/22/2020	
9/23/2020	
9/24/2020	24
3/10/2021	
3/11/2021	24
3/12/2021	
8/23/2021	
8/24/2021	
8/25/2021	30
8/26/2021	
2/28/2022	
3/1/2022	
3/3/2022	17
3/4/2022	

FIGURE E.

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 6/28/2022, 1:21 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	WGWC-16	-0.9162	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-8	0.2018	93	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-9	0.05163	73	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-8	11.17	131	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-1 (bg)	0.1291	83	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-5 (bg)	-0.08806	-69	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-16	-41.32	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-8	19.35	134	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1246	-143	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.5474	102	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	14.03	112	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.76	80	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	50	123	68	Yes	18	0	n/a	n/a	0.01	NP

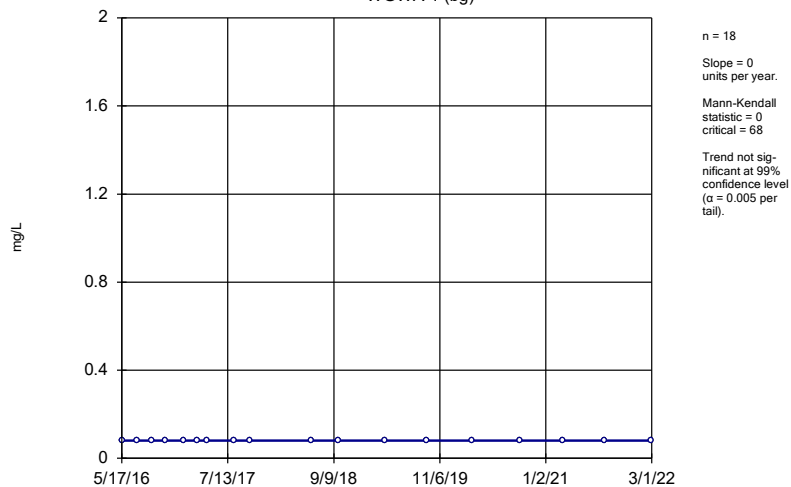
Trend Tests - Prediction Limit Exceedances - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 6/28/2022, 1:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	WGWA-1 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-18 (bg)	0	32	68	No	18	88.89	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-2 (bg)	0	-23	-68	No	18	88.89	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-3 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-4 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-5 (bg)	0	0	63	No	17	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-6 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWA-7 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-16	-0.9162	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-8	0.2018	93	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	WGWC-9	0.05163	73	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-1 (bg)	0.03125	54	68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-18 (bg)	-1.347	-55	-68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-2 (bg)	-0.2578	-32	-68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-3 (bg)	0	-12	-68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-4 (bg)	-0.2414	-46	-68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-5 (bg)	-0.04108	-11	-63	No	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-6 (bg)	0	-3	-68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-7 (bg)	-0.04069	-19	-68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-8	11.17	131	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-1 (bg)	0.1291	83	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-18 (bg)	-0.05644	-31	-68	No	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-2 (bg)	0.05935	57	68	No	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-3 (bg)	0	10	68	No	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-4 (bg)	0	-42	-68	No	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-5 (bg)	-0.08806	-69	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-6 (bg)	0	9	68	No	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-7 (bg)	0	10	68	No	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-16	-41.32	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-8	19.35	134	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-1 (bg)	0	-31	-92	No	22	72.73	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-18 (bg)	-0.008295	-79	-92	No	22	18.18	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-2 (bg)	-0.01629	-84	-92	No	22	40.91	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-3 (bg)	0	-34	-92	No	22	68.18	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-4 (bg)	-0.005859	-64	-92	No	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-5 (bg)	0	19	87	No	21	85.71	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-6 (bg)	-0.005716	-78	-92	No	22	9.091	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-7 (bg)	0	-37	-92	No	22	72.73	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-15	-0.02607	-81	-92	No	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-19	-0.01357	-61	-92	No	22	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1246	-143	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-1 (bg)	0	-17	-68	No	18	88.89	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-18 (bg)	-0.6083	-45	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-2 (bg)	0	3	68	No	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-3 (bg)	0.01696	19	68	No	18	5.556	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.5474	102	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-5 (bg)	0.02377	18	63	No	17	23.53	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-6 (bg)	0.04097	19	68	No	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-7 (bg)	0	-13	-68	No	18	72.22	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-16	-81.01	-62	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	14.03	112	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.76	80	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-1 (bg)	2.5	44	68	No	18	22.22	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-18 (bg)	-1.401	-10	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-2 (bg)	1.758	16	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-3 (bg)	1.759	20	68	No	18	5.556	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-4 (bg)	0.8081	23	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-5 (bg)	0.4319	4	63	No	17	11.76	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-6 (bg)	3.908	46	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-7 (bg)	0.8063	9	68	No	18	16.67	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	50	123	68	Yes	18	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

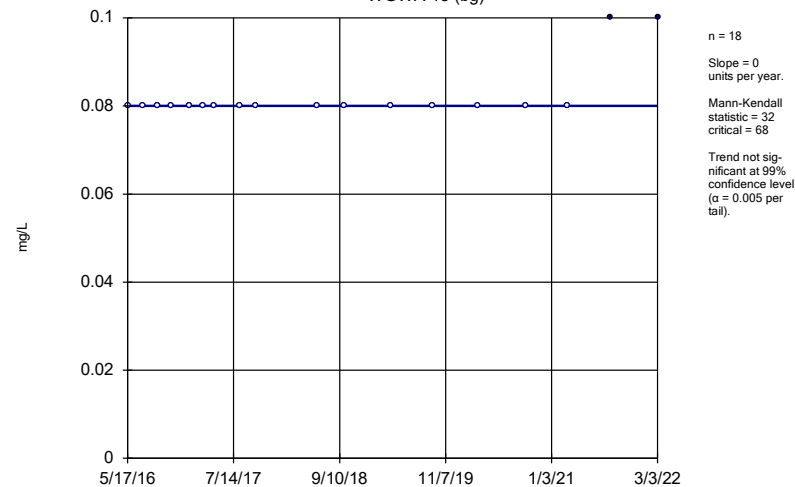
WGWA-1 (bg)



Constituent: Boron, total Analysis Run 6/28/2022 1:18 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

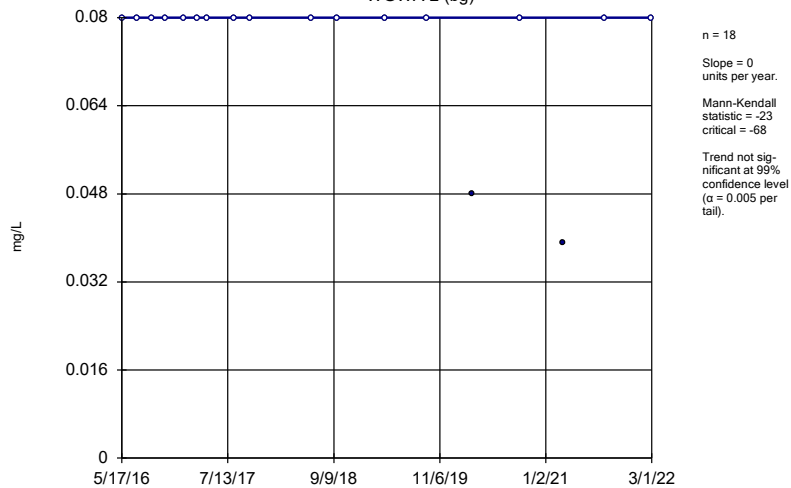
WGWA-18 (bg)



Constituent: Boron, total Analysis Run 6/28/2022 1:18 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

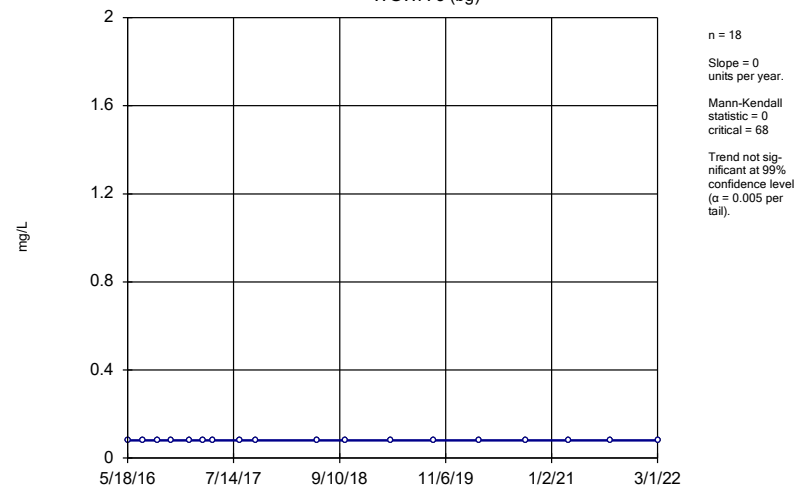
WGWA-2 (bg)



Constituent: Boron, total Analysis Run 6/28/2022 1:18 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

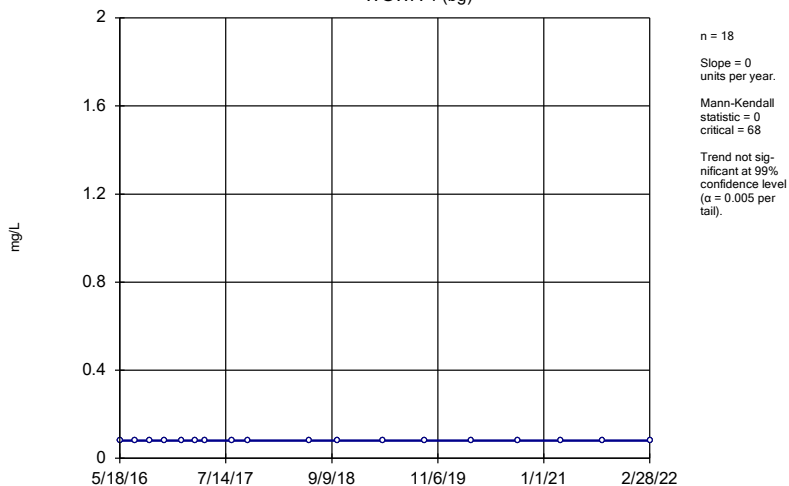
WGWA-3 (bg)



Constituent: Boron, total Analysis Run 6/28/2022 1:18 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

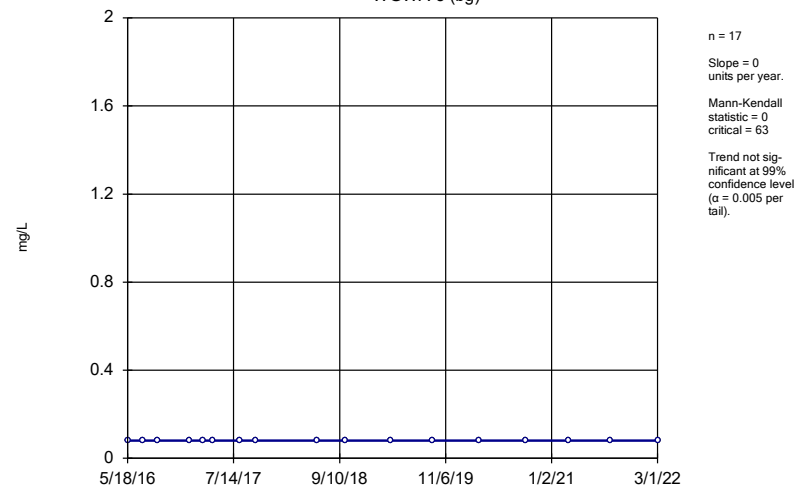
WGWA-4 (bg)



Constituent: Boron, total Analysis Run 6/28/2022 1:18 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

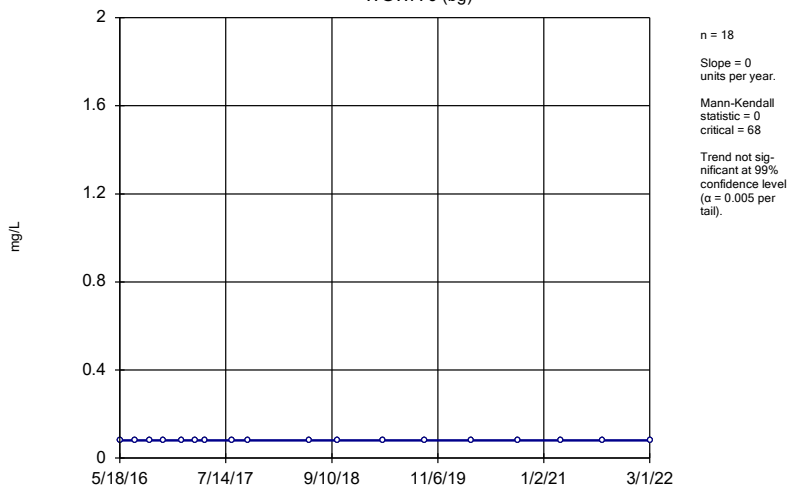
WGWA-5 (bg)



Constituent: Boron, total Analysis Run 6/28/2022 1:18 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

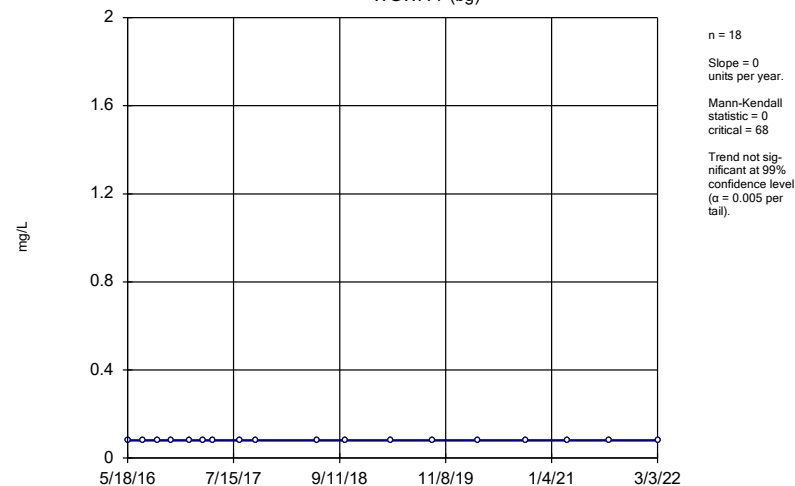
WGWA-6 (bg)



Constituent: Boron, total Analysis Run 6/28/2022 1:18 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

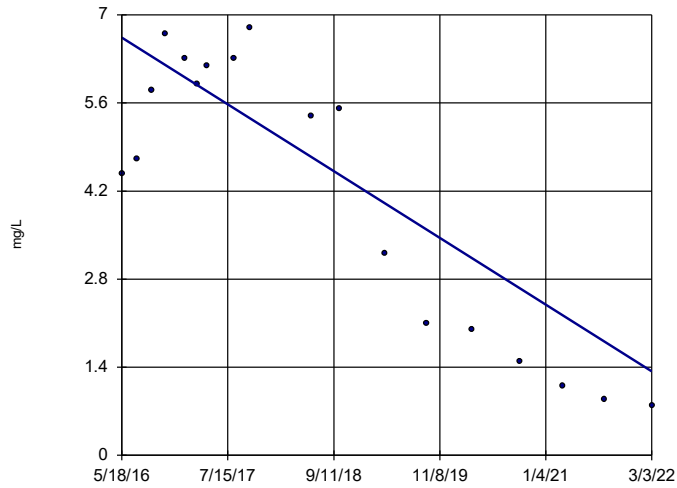
Sen's Slope Estimator

WGWA-7 (bg)



Constituent: Boron, total Analysis Run 6/28/2022 1:18 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

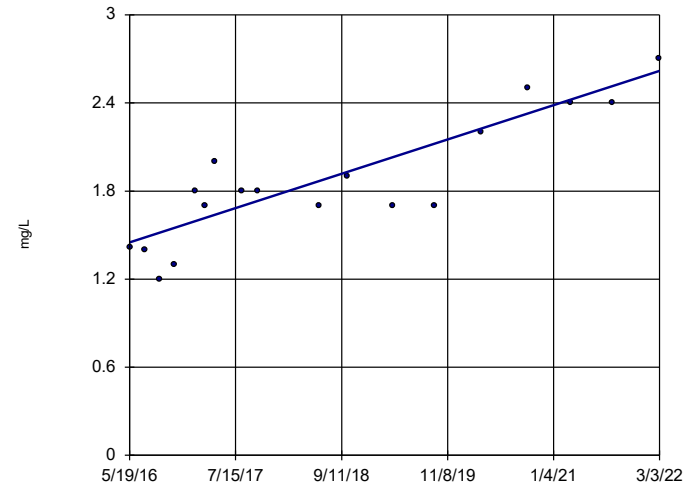
Sen's Slope Estimator WGWC-16



n = 18
 Slope = -0.9162
 units per year.
 Mann-Kendall
 statistic = -84
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 6/28/2022 1:18 PM View: Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

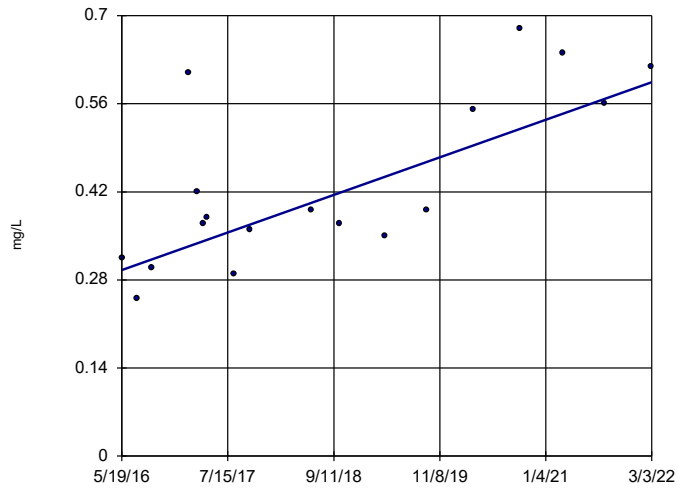
Sen's Slope Estimator WGWC-8



n = 18
 Slope = 0.2018
 units per year.
 Mann-Kendall
 statistic = 93
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 6/28/2022 1:18 PM View: Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

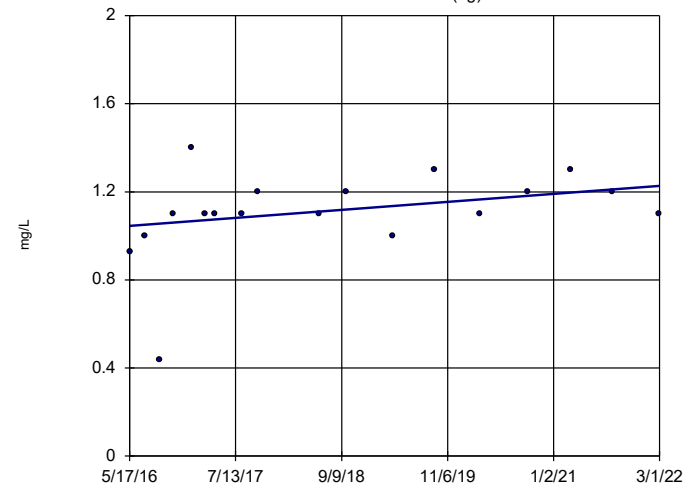
Sen's Slope Estimator WGWC-9



n = 18
 Slope = 0.05163
 units per year.
 Mann-Kendall
 statistic = 73
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 6/28/2022 1:18 PM View: Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-1 (bg)

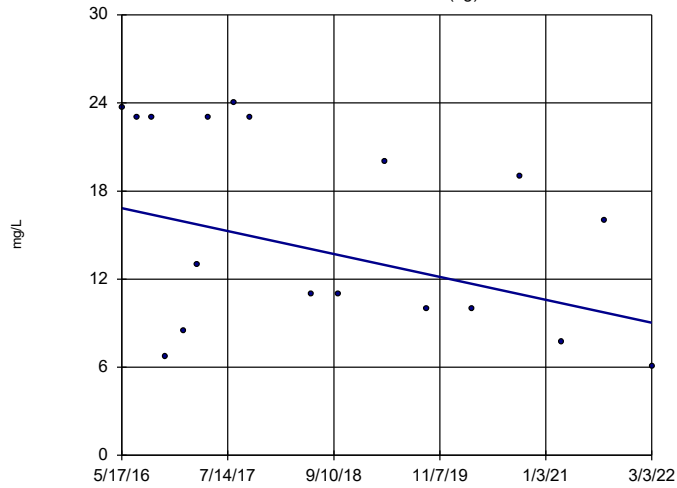


n = 18
 Slope = 0.03125
 units per year.
 Mann-Kendall
 statistic = 54
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 6/28/2022 1:18 PM View: Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-18 (bg)

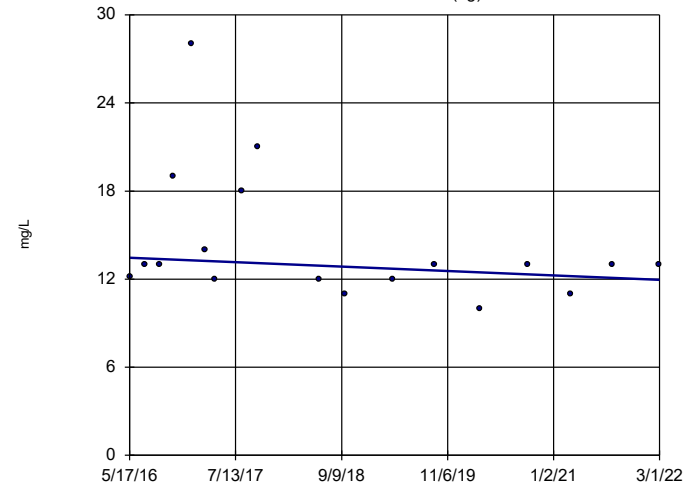


n = 18
 Slope = -1.347
 units per year.
 Mann-Kendall
 statistic = -55
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium, total Analysis Run 6/28/2022 1:18 PM View: Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-2 (bg)

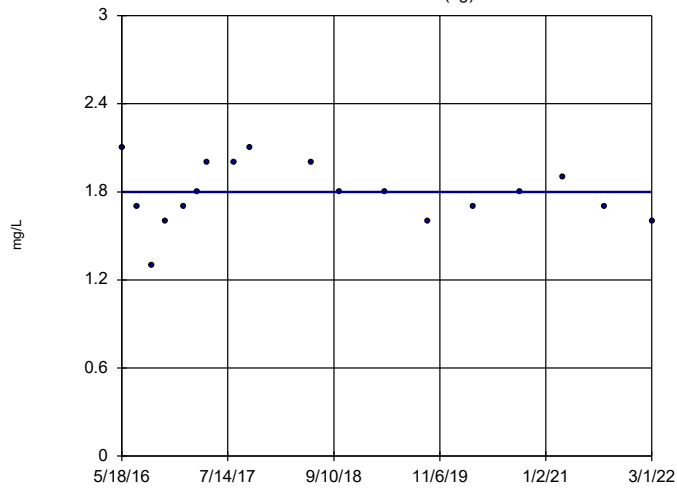


n = 18
 Slope = -0.2578
 units per year.
 Mann-Kendall
 statistic = -32
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium, total Analysis Run 6/28/2022 1:19 PM View: Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-3 (bg)

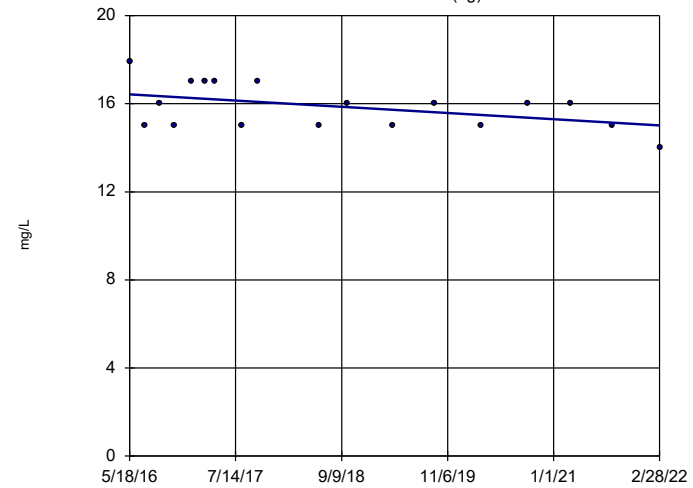


n = 18
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -12
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium, total Analysis Run 6/28/2022 1:19 PM View: Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-4 (bg)

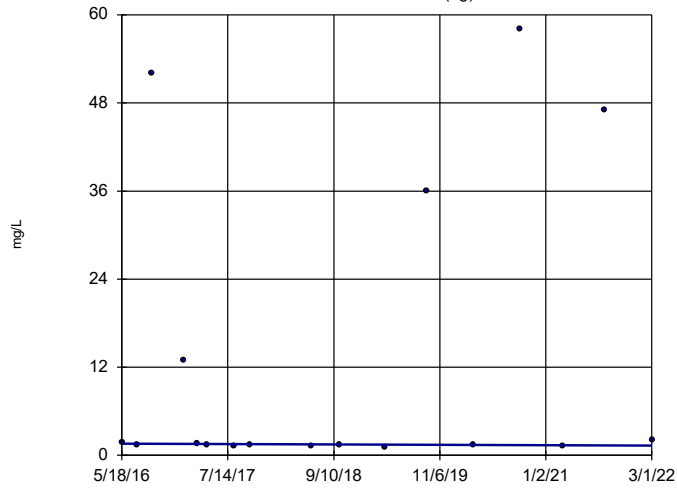


n = 18
 Slope = -0.2414
 units per year.
 Mann-Kendall
 statistic = -46
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Calcium, total Analysis Run 6/28/2022 1:19 PM View: Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-5 (bg)

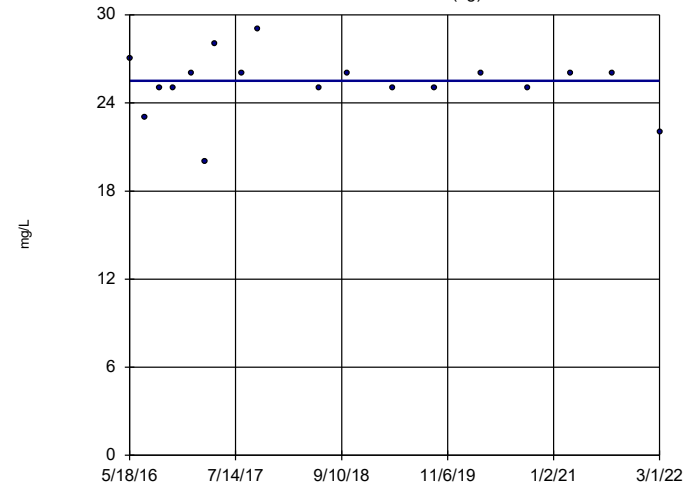


n = 17
 Slope = -0.04108
 units per year.
 Mann-Kendall
 statistic = -11
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 6/28/2022 1:19 PM View: Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-6 (bg)

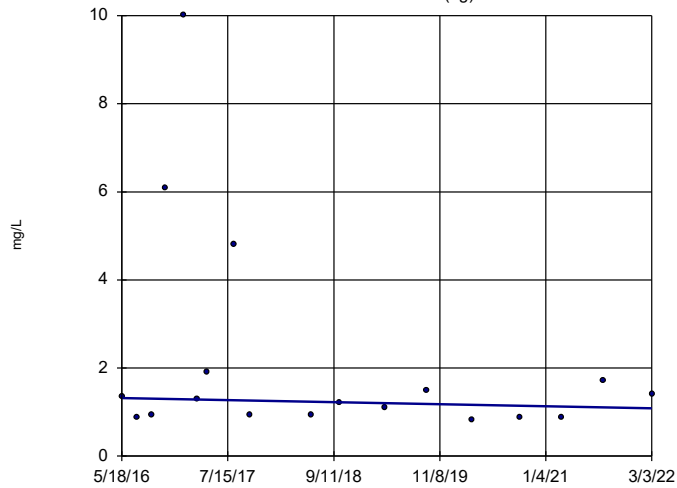


n = 18
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -3
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 6/28/2022 1:19 PM View: Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-7 (bg)

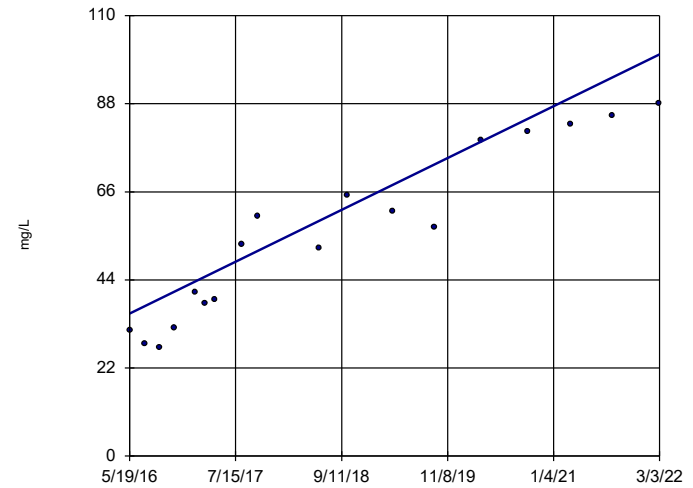


n = 18
 Slope = -0.04069
 units per year.
 Mann-Kendall
 statistic = -19
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 6/28/2022 1:19 PM View: Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-8

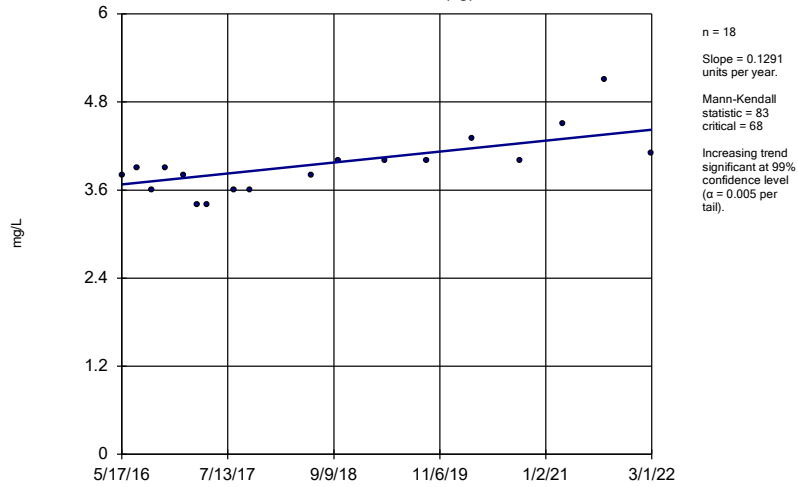


n = 18
 Slope = 11.17
 units per year.
 Mann-Kendall
 statistic = 131
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 6/28/2022 1:19 PM View: Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

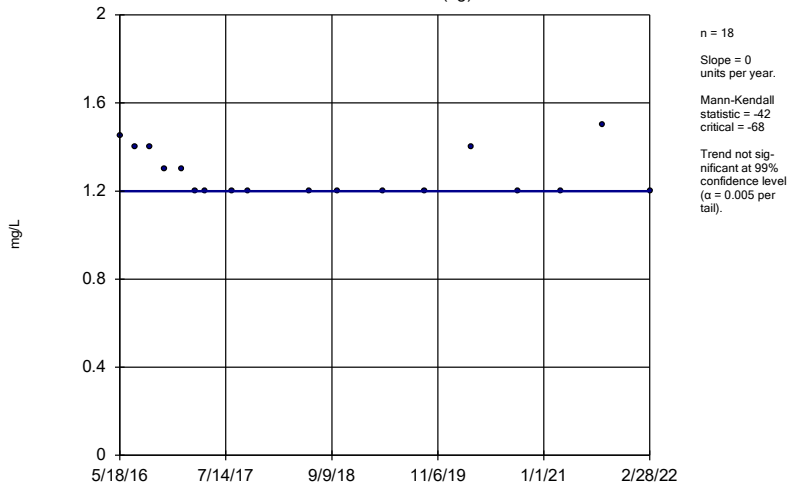
Sen's Slope Estimator

WGWA-1 (bg)



Sen's Slope Estimator

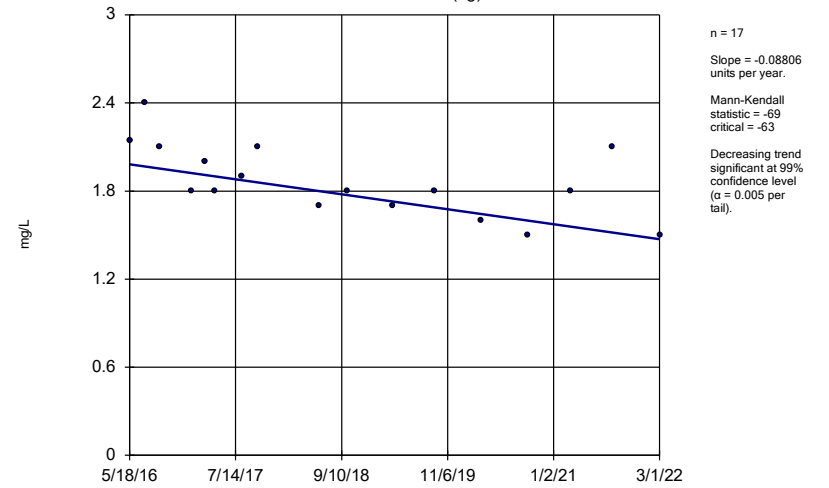
WGWA-4 (bg)



Constituent: Chloride, Total Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

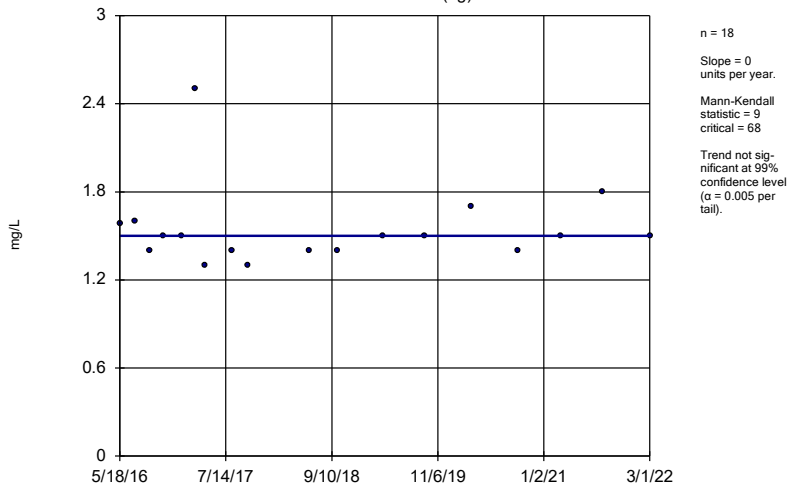
WGWA-5 (bg)



Constituent: Chloride, Total Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

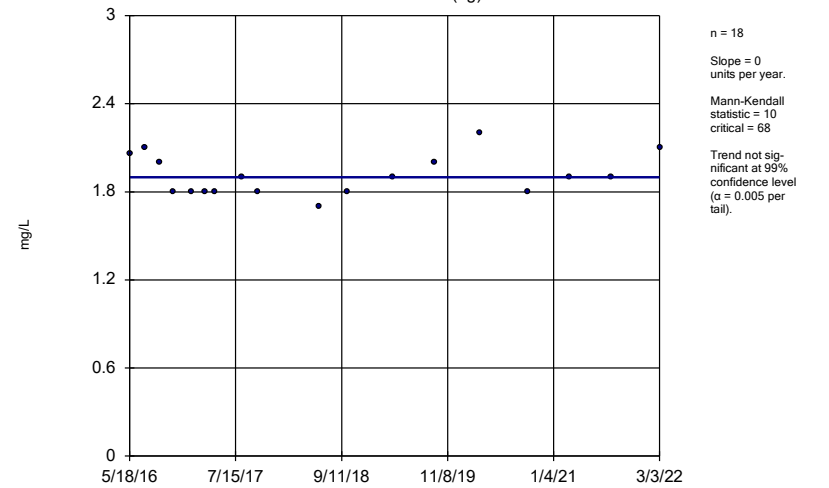
WGWA-6 (bg)



Constituent: Chloride, Total Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

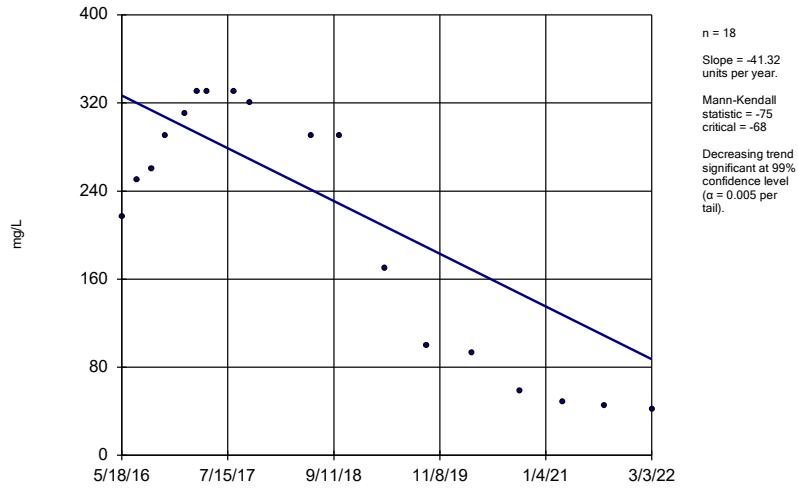
Sen's Slope Estimator

WGWA-7 (bg)



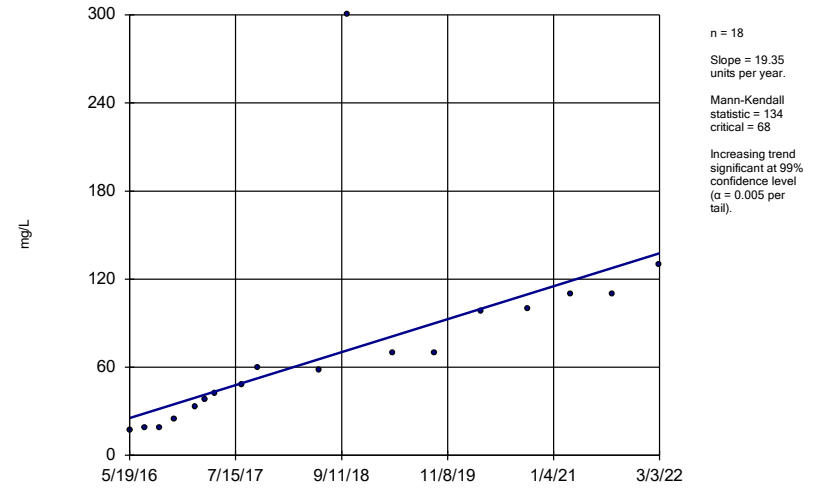
Constituent: Chloride, Total Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-16



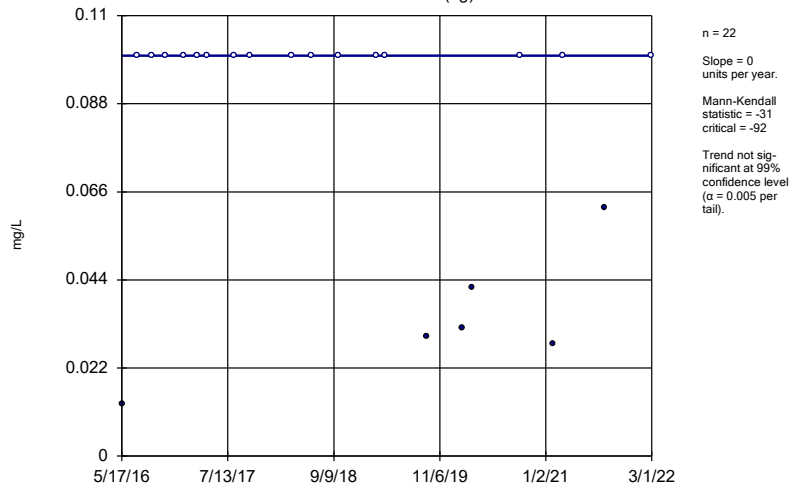
Constituent: Chloride, Total Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWC-8



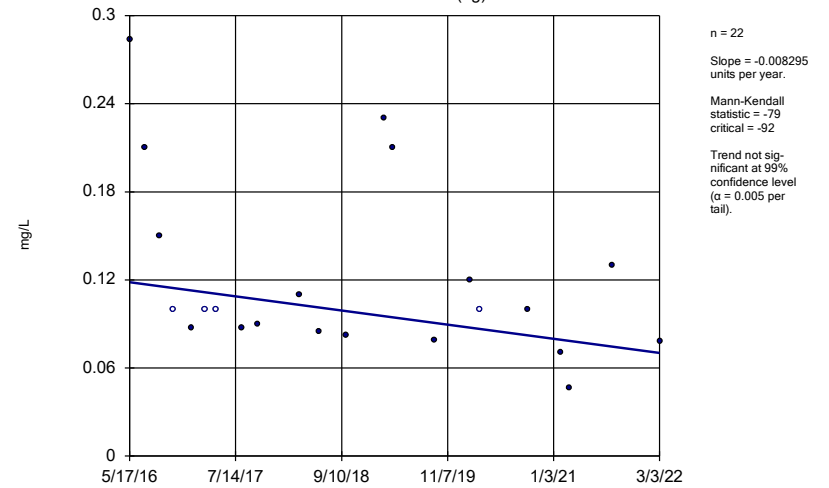
Constituent: Chloride, Total Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-1 (bg)



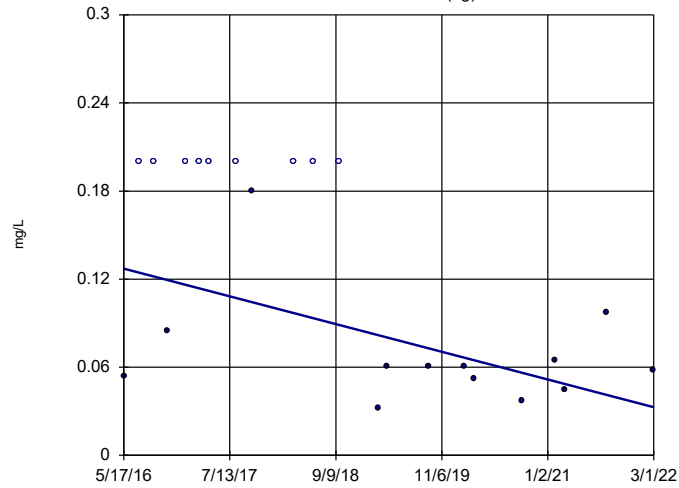
Constituent: Fluoride, total Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-18 (bg)



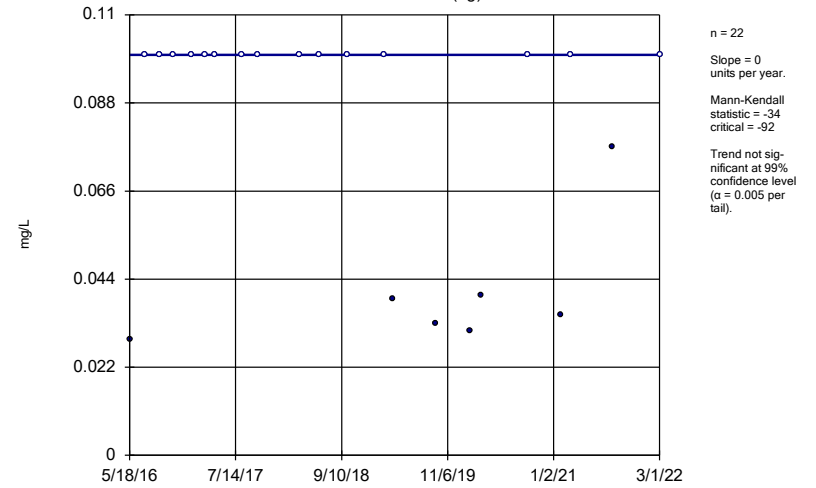
Constituent: Fluoride, total Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-2 (bg)



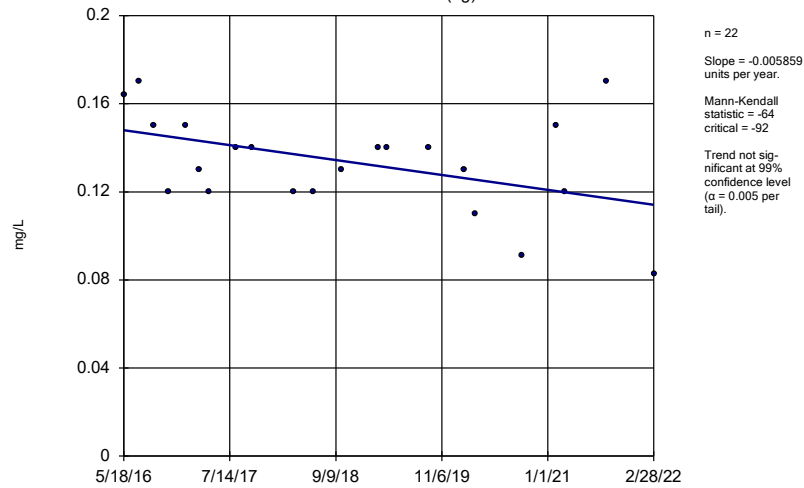
Constituent: Fluoride, total Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-3 (bg)



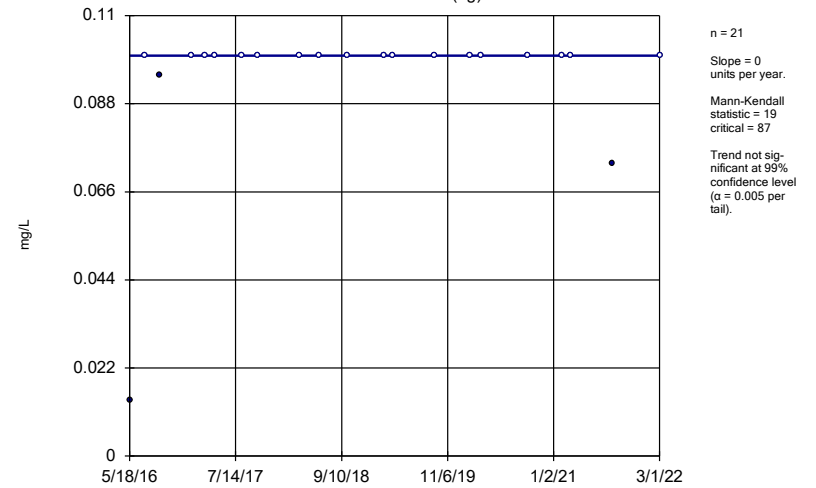
Constituent: Fluoride, total Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-4 (bg)



Constituent: Fluoride, total Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

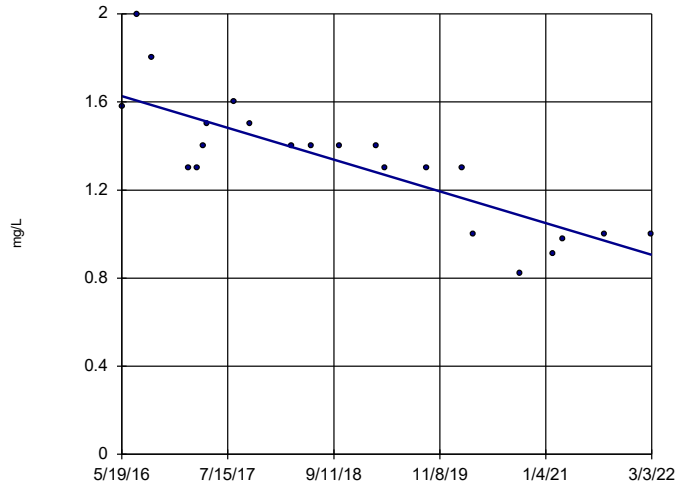
Sen's Slope Estimator
WGWA-5 (bg)



Constituent: Fluoride, total Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-9



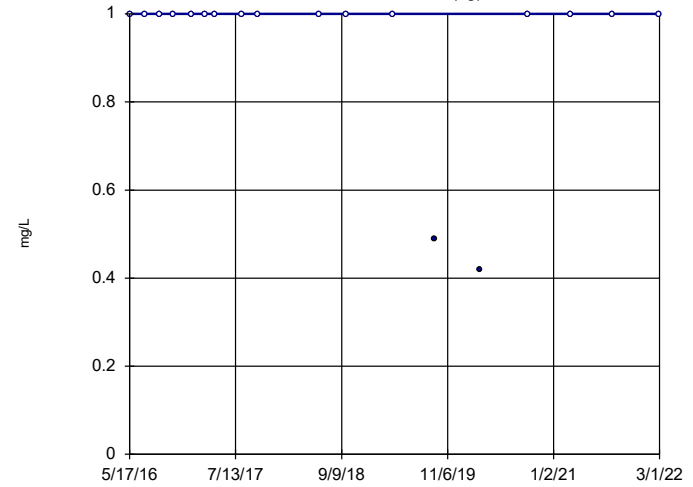
n = 22
 Slope = -0.1246
 units per year.
 Mann-Kendall
 statistic = -143
 critical = -92
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride, total Analysis Run 6/28/2022 1:19 PM View: Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-1 (bg)

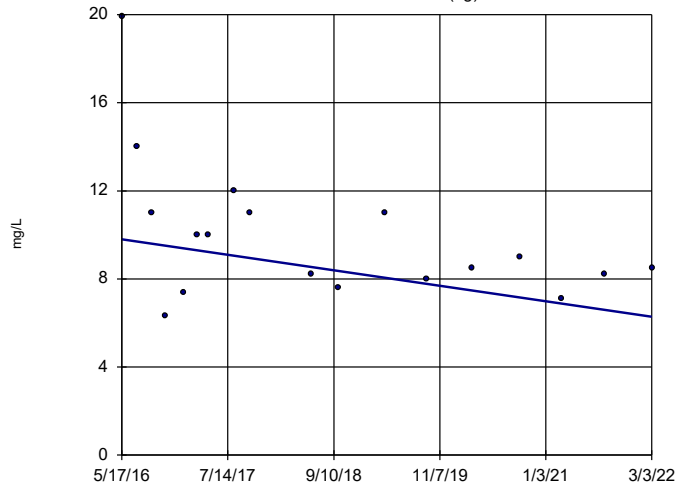


n = 18
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -17
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 6/28/2022 1:19 PM View: Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-18 (bg)

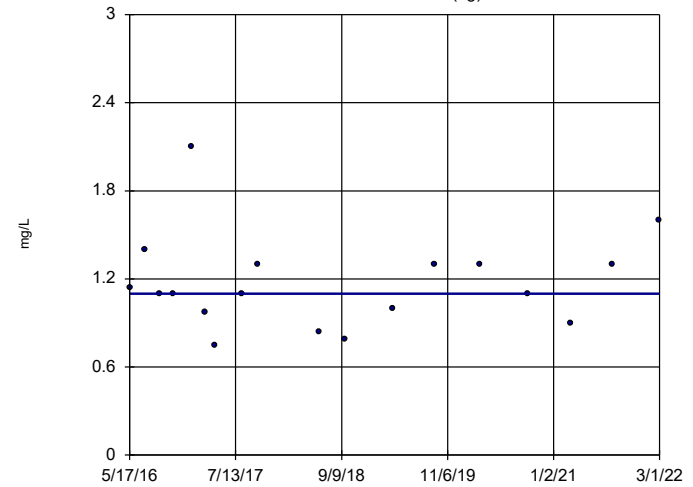


n = 18
 Slope = -0.6083
 units per year.
 Mann-Kendall
 statistic = -45
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate as SO4 Analysis Run 6/28/2022 1:19 PM View: Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

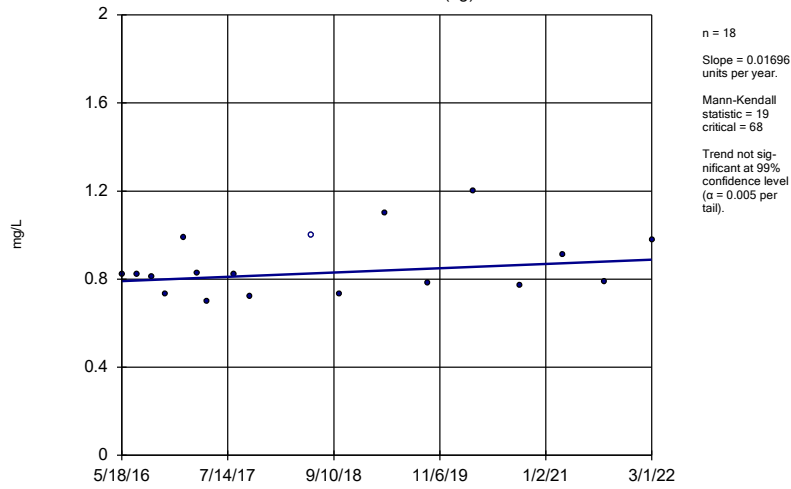
WGWA-2 (bg)



n = 18
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 3
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

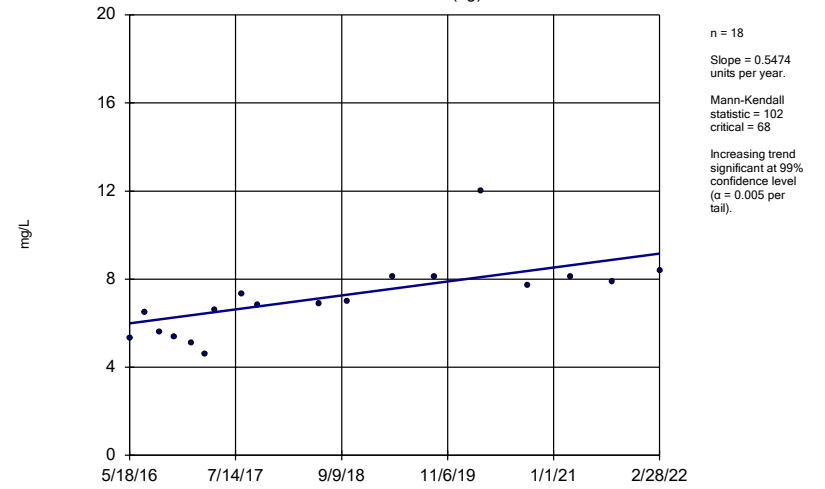
Constituent: Sulfate as SO4 Analysis Run 6/28/2022 1:19 PM View: Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-3 (bg)



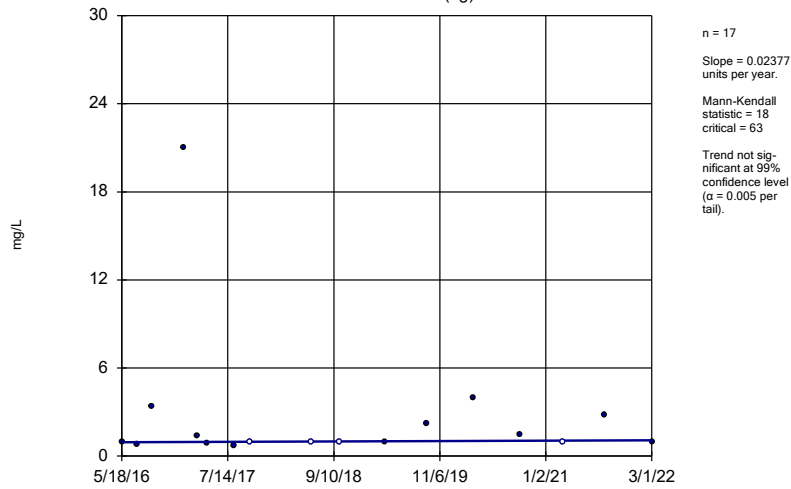
Constituent: Sulfate as SO4 Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-4 (bg)



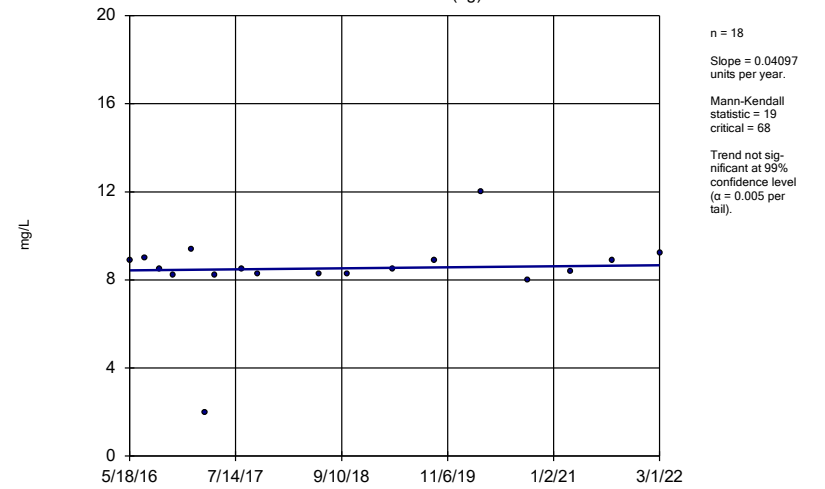
Constituent: Sulfate as SO4 Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator WGWA-5 (bg)



Constituent: Sulfate as SO4 Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

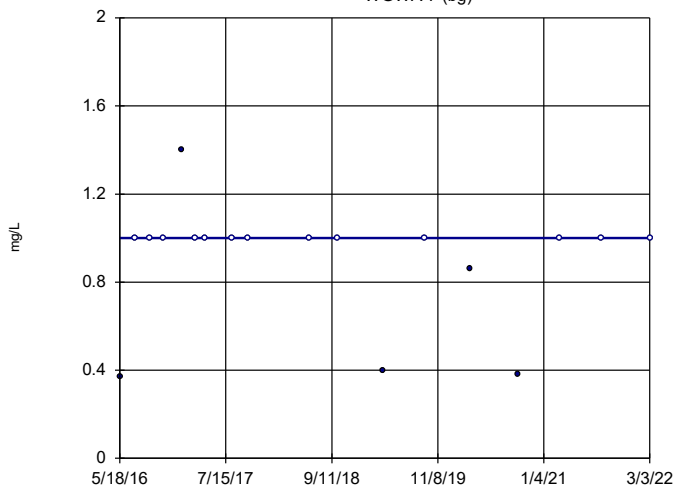
Sen's Slope Estimator WGWA-6 (bg)



Constituent: Sulfate as SO4 Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-7 (bg)

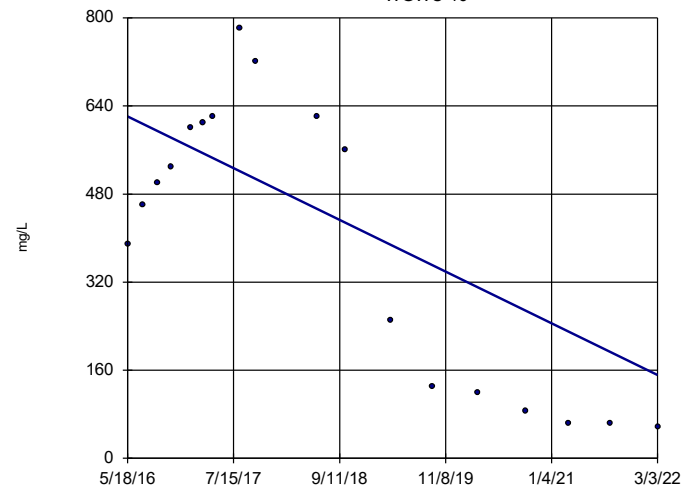


n = 18
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -13
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate as SO4 Analysis Run 6/28/2022 1:19 PM View: Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-16

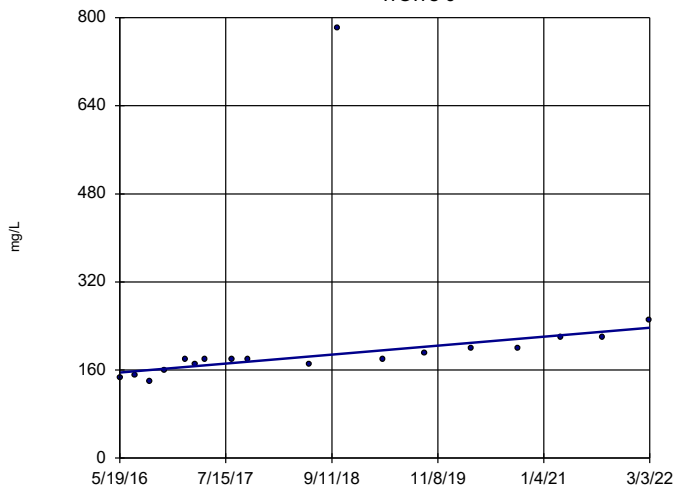


n = 18
 Slope = -81.01
 units per year.
 Mann-Kendall
 statistic = -62
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate as SO4 Analysis Run 6/28/2022 1:19 PM View: Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-8

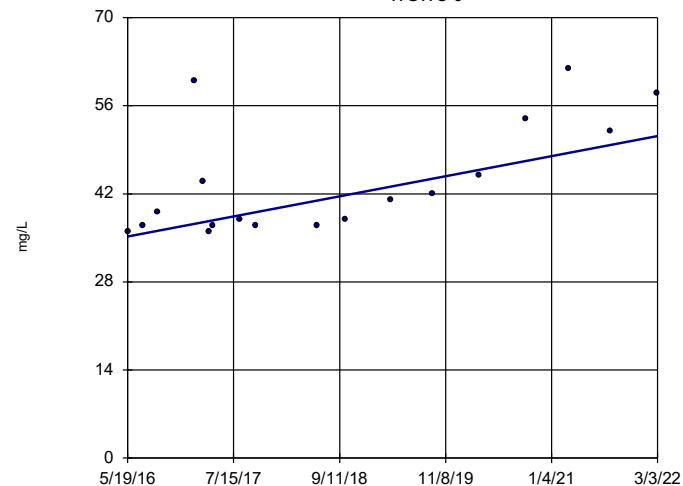


n = 18
 Slope = 14.03
 units per year.
 Mann-Kendall
 statistic = 112
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate as SO4 Analysis Run 6/28/2022 1:19 PM View: Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

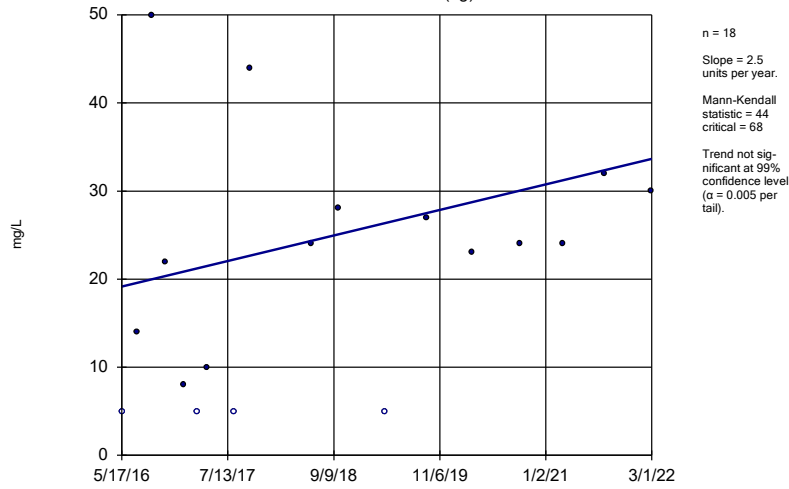
WGWC-9



n = 18
 Slope = 2.76
 units per year.
 Mann-Kendall
 statistic = 80
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

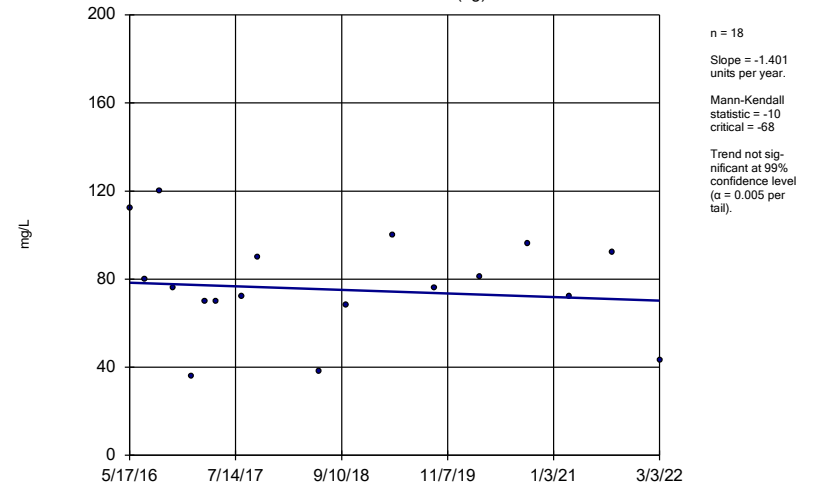
Constituent: Sulfate as SO4 Analysis Run 6/28/2022 1:19 PM View: Trend Tests
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-1 (bg)



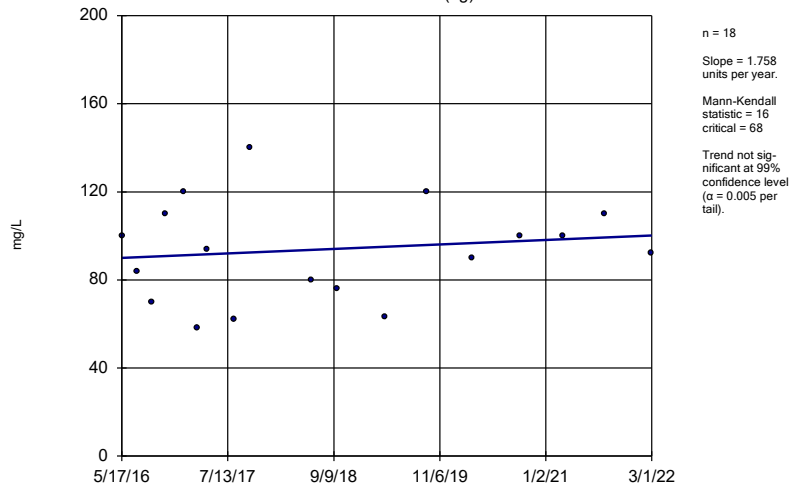
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-18 (bg)



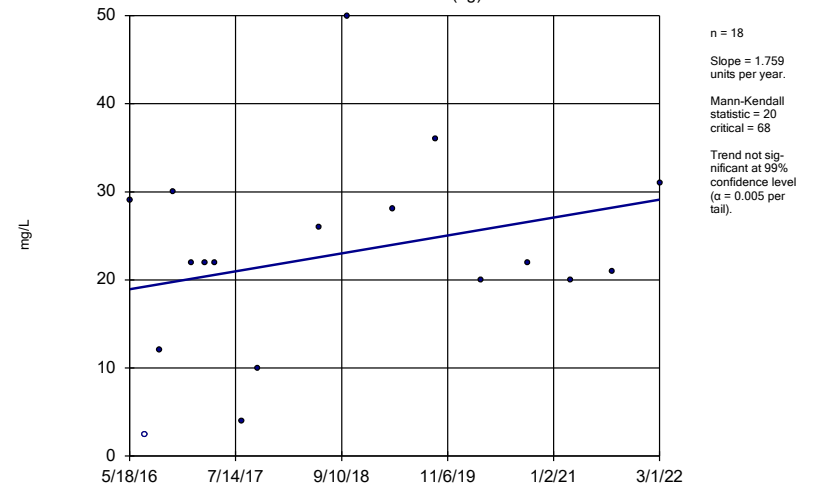
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator
WGWA-2 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

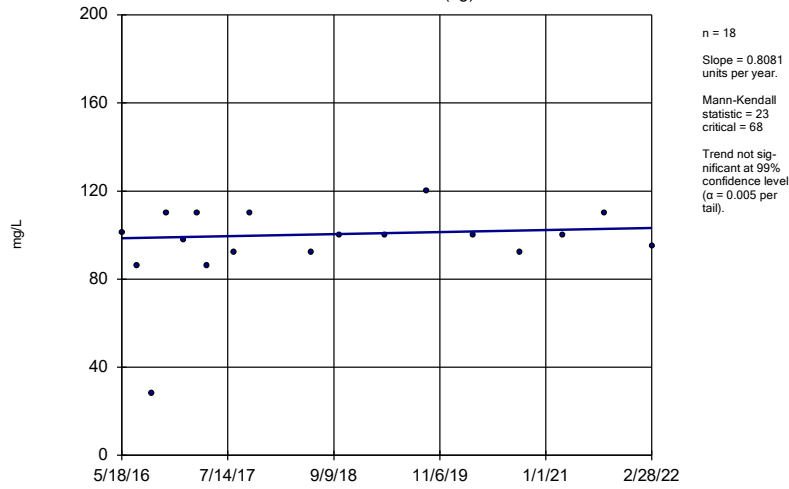
Sen's Slope Estimator
WGWA-3 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-4 (bg)

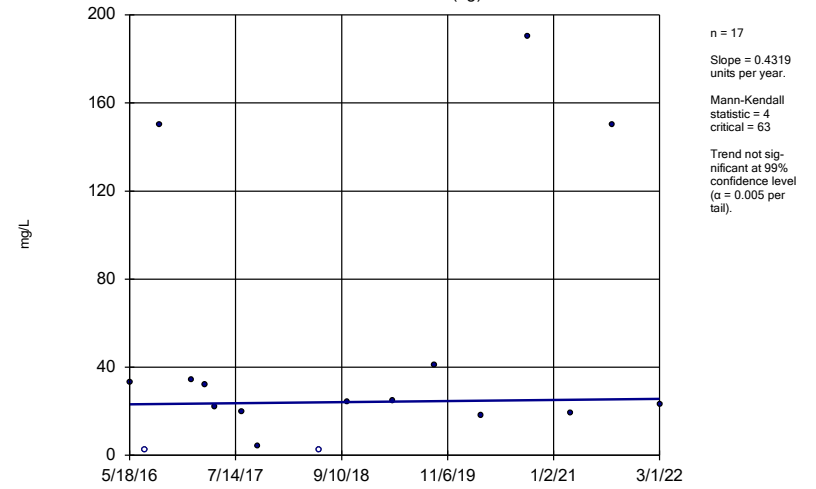


Constituent: Total Dissolved Solids [TDS] Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

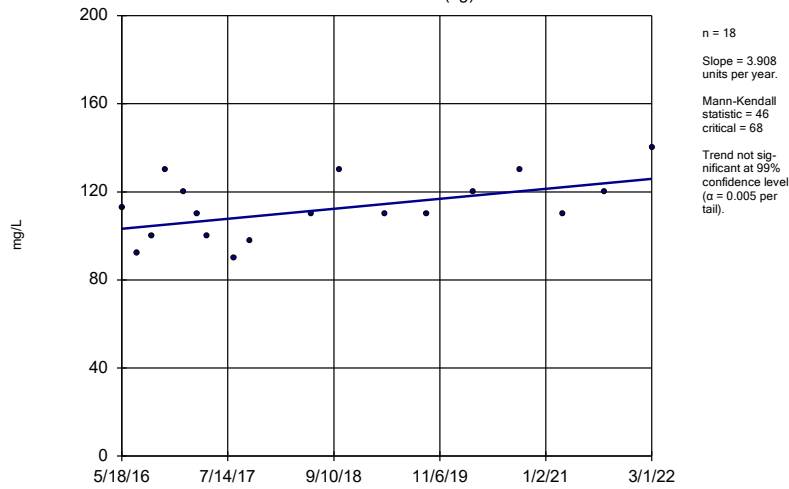
WGWA-5 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWA-6 (bg)

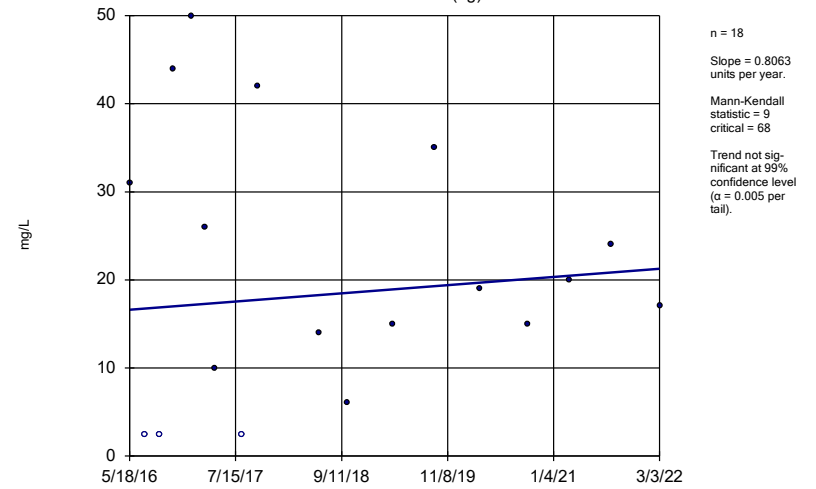


Constituent: Total Dissolved Solids [TDS] Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

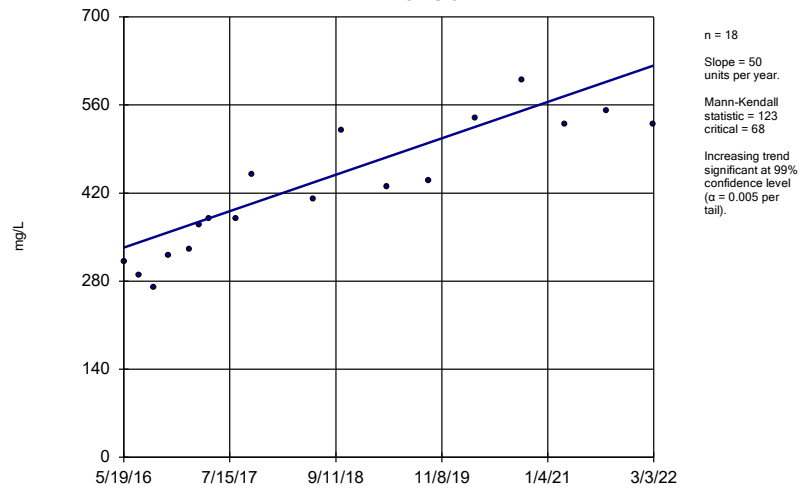
WGWA-7 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sen's Slope Estimator

WGWC-8



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/28/2022 1:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

FIGURE F.

Upper Tolerance Limit Summary Table

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 6/28/2022, 1:24 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	0.0022	n/a	n/a	n/a	n/a	127	n/a	n/a	98.43	n/a	n/a	0.001482	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0014	n/a	n/a	n/a	n/a	167	n/a	n/a	80.24	n/a	n/a	0.0001905	NP Inter(NDs)
Barium (mg/L)	n/a	0.062	n/a	n/a	n/a	n/a	167	n/a	n/a	0	n/a	n/a	0.0001905	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	167	n/a	n/a	93.41	n/a	n/a	0.0001905	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	151	n/a	n/a	100	n/a	n/a	0.0004328	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0049	n/a	n/a	n/a	n/a	167	n/a	n/a	95.21	n/a	n/a	0.0001905	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.013	n/a	n/a	n/a	n/a	166	n/a	n/a	46.39	n/a	n/a	0.0002005	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	10.4	n/a	n/a	n/a	n/a	164	n/a	n/a	0	n/a	n/a	0.0002222	NP Inter(normality)
Fluoride, total (mg/L)	n/a	0.284	n/a	n/a	n/a	n/a	175	n/a	n/a	45.71	n/a	n/a	NaN	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	151	n/a	n/a	88.08	n/a	n/a	0.0004328	NP Inter(NDs)
Lithium (mg/L)	n/a	0.009	n/a	n/a	n/a	n/a	157	n/a	n/a	50.32	n/a	n/a	0.0003181	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	135	n/a	n/a	89.63	n/a	n/a	0.0009833	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.015	n/a	n/a	n/a	n/a	166	n/a	n/a	90.36	n/a	n/a	0.0002005	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	167	n/a	n/a	94.61	n/a	n/a	0.0001905	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	167	n/a	n/a	92.22	n/a	n/a	0.0001905	NP Inter(NDs)

FIGURE G.

WANSLEY AP GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background	GWPS
Antimony, Total (mg/L)	0.006		0.0022	0.006
Arsenic, Total (mg/L)	0.01		0.0014	0.01
Barium, Total (mg/L)	2		0.062	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		0.0049	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.013	0.013
Combined Radium, Total (pCi/L)	5		10.4	10.4
Fluoride, Total (mg/L)	4		0.284	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.009	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	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

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

CCR = Coal Combustion Residual

Highlighted cells indicate background is higher than established limit.

FIGURE H.

Confidence Interval - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 7/12/2022, 9:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	WGWC-20	0.01359	0.005913	0.004	Yes	4	0.00975	0.00169	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-19	0.05589	0.04811	0.04	Yes	21	0.052	0.007043	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-20	0.15	0.11	0.04	Yes	6	0.1233	0.01751	0	None	No	0.0155	NP (normality)

Confidence Interval - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 7/12/2022, 9:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	WGWC-12	0.0023	0.002	0.006	No	16	0.002019	0.000075	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-20	0.001379	0.0003805	0.006	No	4	0.00144	0.0006711	50	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	WGWC-21	0.0009061	0.0003839	0.006	No	4	0.001323	0.0007879	50	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	WGWC-22	0.0009941	0.0004326	0.006	No	4	0.001035	0.0006551	25	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	WGWC-23	0.002029	0.0008374	0.006	No	4	0.001575	0.0003862	25	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	WGWC-9	0.008	0.0011	0.006	No	16	0.00212	0.001666	75	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.00089	0.01	No	21	0.0008776	0.0002481	76.19	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	21	0.0009295	0.0001772	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.00052	0.01	No	21	0.0009224	0.0001964	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00039	0.01	No	21	0.0007924	0.0003183	47.62	None	No	0.01	NP (normality)
Arsenic (mg/L)	WGWC-14A	0.0014	0.00095	0.01	No	21	0.001231	0.0005724	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-15	0.002115	0.001251	0.01	No	21	0.001683	0.0007834	0	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.0014	0.001	0.01	No	21	0.00115	0.0003245	52.38	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-17	0.001	0.00067	0.01	No	21	0.0008476	0.0002063	52.38	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-20	0.0009805	-0.00001051	0.01	No	4	0.000485	0.0002183	0	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-21	0.001014	0.0001313	0.01	No	4	0.0005725	0.0001943	0	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-22	0.000568	0.000182	0.01	No	4	0.0006875	0.0003675	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-24	0.004944	-0.0007236	0.01	No	4	0.00211	0.001248	0	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-8	0.0009225	0.0005404	0.01	No	21	0.0009833	0.0002867	47.62	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	21	0.0009976	0.0002024	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.041	0.035	2	No	21	0.03829	0.006358	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-11	0.04048	0.03237	2	No	21	0.03667	0.0078	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-12	0.02	0.015	2	No	21	0.01707	0.004064	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-13	0.05561	0.04592	2	No	21	0.05076	0.008786	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04613	0.03092	2	No	21	0.03852	0.01379	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-15	0.0247	0.0205	2	No	21	0.0226	0.003811	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.05732	0.03987	2	No	21	0.0486	0.01582	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-17	0.019	0.011	2	No	21	0.01476	0.004027	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-19	0.005	0.0013	2	No	21	0.003013	0.001953	38.1	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-21	0.009418	0.006032	2	No	4	0.007725	0.0007455	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-22	0.04906	0.01794	2	No	4	0.0335	0.006856	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-23	0.01062	0.005776	2	No	4	0.0082	0.001068	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-24	0.04727	0.01823	2	No	4	0.03275	0.006397	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-25	0.4427	0.3123	2	No	4	0.3775	0.02872	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-8	0.005	0.0011	2	No	21	0.003156	0.001788	42.86	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.005	0.00088	2	No	21	0.002725	0.001895	38.1	None	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00026	0.004	No	21	0.001856	0.001043	71.43	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	21	0.002391	0.0004975	95.24	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-20	0.01359	0.005913	0.004	Yes	4	0.00975	0.00169	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-22	0.0007078	0.0004472	0.004	No	4	0.0005775	0.00005737	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-23	0.001352	0.0007282	0.004	No	4	0.00104	0.0001374	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-24	0.01955	0.002552	0.004	No	4	0.01105	0.003743	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-25	0.0025	0.0002	0.004	No	4	0.00082	0.001121	25	None	No	0.0625	NP (normality)
Beryllium (mg/L)	WGWC-8	0.002161	0.001606	0.004	No	21	0.001883	0.000503	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	21	0.00129	0.001074	42.86	None	No	0.01	NP (normality)
Chromium (mg/L)	WGWC-10	0.002328	0.001719	0.1	No	21	0.002024	0.0005522	14.29	None	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.0021	0.0017	0.1	No	21	0.00191	0.0002625	80.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0019	0.1	No	21	0.001971	0.00007838	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	21	0.001986	0.00006547	95.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	21	0.001976	0.0001091	95.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	21	0.002024	0.0001091	95.24	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001508	0.0007381	0.013	No	21	0.001195	0.0008045	4.762	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00052	0.013	No	21	0.001492	0.0009494	33.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.001094	0.0004832	0.013	No	21	0.0008538	0.0006437	4.762	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.0008	0.013	No	21	0.002009	0.0009069	76.19	None	No	0.01	NP (NDs)

Confidence Interval - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 7/12/2022, 9:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	WGWC-14A	0.00999	0.0052	0.013	No	21	0.007595	0.004341	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-15	0.0025	0.00015	0.013	No	21	0.002388	0.0005128	95.24	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-16	0.008605	0.001904	0.013	No	21	0.00654	0.006203	14.29	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-17	0.001577	0.0007172	0.013	No	21	0.001147	0.0007793	4.762	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00024	0.013	No	21	0.001255	0.00111	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-20	0.0025	0.00037	0.013	No	4	0.001457	0.001204	50	None	No	0.0625	NP (normality)
Cobalt (mg/L)	WGWC-21	0.001378	0.0001093	0.013	No	4	0.00054	0.0003103	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	WGWC-22	0.0025	0.00025	0.013	No	4	0.0008675	0.00109	25	None	No	0.0625	NP (normality)
Cobalt (mg/L)	WGWC-23	0.0025	0.00016	0.013	No	4	0.001332	0.001348	50	None	No	0.0625	NP (normality)
Cobalt (mg/L)	WGWC-24	0.178	0.006006	0.013	No	4	0.092	0.03788	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-25	0.005563	0.003487	0.013	No	4	0.004525	0.0004573	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-8	0.0025	0.00065	0.013	No	21	0.001748	0.001047	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	21	0.002416	0.0003862	95.24	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4486	0.1873	10.4	No	21	0.3179	0.2368	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.62	0.195	10.4	No	21	0.4075	0.3852	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.5862	0.1932	10.4	No	21	0.3897	0.3562	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.7778	0.4775	10.4	No	21	0.6276	0.2722	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.8419	0.5469	10.4	No	21	0.7113	0.2987	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.6311	0.31	10.4	No	21	0.5006	0.3384	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	1.816	0.8141	10.4	No	21	1.315	0.9083	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5376	0.1416	10.4	No	21	0.3396	0.3589	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.5722	0.2102	10.4	No	21	0.3912	0.3281	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-20	1.963	0.18	10.4	No	4	1.071	0.3926	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-21	3.219	-0.2142	10.4	No	4	1.502	0.756	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-22	9.957	1.388	10.4	No	4	5.673	1.887	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-23	1.92	-0.5164	10.4	No	4	0.702	0.5367	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-24	2.065	0.3783	10.4	No	4	1.029	0.4049	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-25	1.382	0.1402	10.4	No	4	0.761	0.2734	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-8	2.132	1.38	10.4	No	21	1.756	0.6816	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.4373	0.1769	10.4	No	21	0.3071	0.236	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-10	0.1723	0.1254	4	No	22	0.1489	0.04364	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-11	0.055	0.047	4	No	22	0.05355	0.02893	54.55	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	WGWC-12	0.09929	0.0744	4	No	22	0.08423	0.02796	18.18	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-13	0.2871	0.2069	4	No	22	0.247	0.07463	4.545	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-14A	0.057	0.048	4	No	22	0.04782	0.008694	63.64	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	WGWC-15	0.8673	0.7754	4	No	22	0.8213	0.08562	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-16	0.14	0.061	4	No	22	0.1483	0.1803	9.091	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-17	0.1316	0.08235	4	No	22	0.107	0.04584	4.545	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-19	0.377	0.3275	4	No	22	0.3523	0.04608	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-20	2.362	1.572	4	No	6	1.967	0.2875	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-21	2.019	1.614	4	No	6	1.817	0.1472	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-22	1.325	0.2869	4	No	6	0.7083	0.4325	0	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	WGWC-23	0.1025	0.02548	4	No	6	0.064	0.02804	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-24	1.298	0.5149	4	No	6	0.9067	0.2852	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-25	0.04596	0.02233	4	No	6	0.04017	0.0104	33.33	Kaplan-Meier	x^2	0.01	Param.
Fluoride, total (mg/L)	WGWC-8	0.3357	0.1993	4	No	22	0.2675	0.127	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-9	1.483	1.171	4	No	22	1.327	0.2909	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00021	0.015	No	19	0.00064	0.000394	52.63	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.015	No	19	0.0008716	0.0002622	78.95	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-12	0.001	0.00033	0.015	No	19	0.0009647	0.0001537	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00045	0.015	No	19	0.0006989	0.0002898	42.11	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00031	0.015	No	19	0.0007774	0.0003485	68.42	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-15	0.001	0.0003	0.015	No	19	0.0009632	0.0001606	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.015	No	19	0.0009089	0.0002727	89.47	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.015	No	19	0.0009226	0.0002328	89.47	None	No	0.01	NP (NDs)

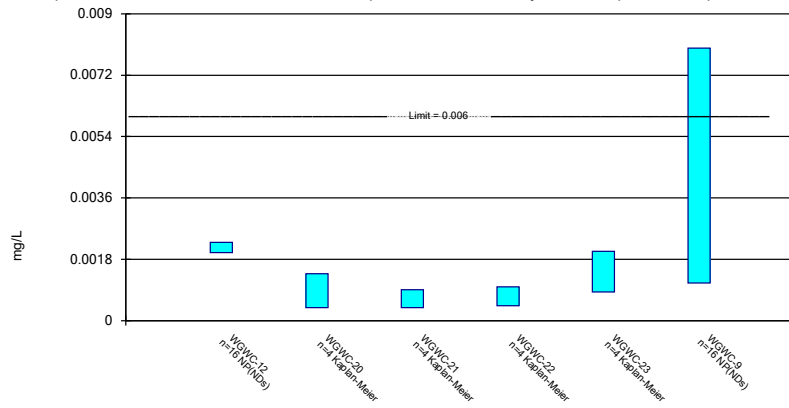
Confidence Interval - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 7/12/2022, 9:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	WGWC-19	0.001	0.0003	0.015	No	19	0.0009632	0.0001606	94.74	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-22	0.0004239	0.0001454	0.015	No	4	0.0004525	0.0003705	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	WGWC-24	0.001494	0.000131	0.015	No	4	0.0008125	0.0003002	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-8	0.001	0.00016	0.015	No	19	0.00075	0.0003866	68.42	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.015	No	19	0.0009547	0.0001973	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01388	0.006939	0.04	No	21	0.01104	0.007155	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.04	No	21	0.00449	0.001284	85.71	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.0077	0.006118	0.04	No	21	0.006752	0.001704	4.762	None	x^2	0.01	Param.
Lithium (mg/L)	WGWC-13	0.005	0.0037	0.04	No	21	0.004324	0.001185	71.43	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-14A	0.005	0.0025	0.04	No	21	0.004048	0.001364	61.9	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-15	0.007194	0.005615	0.04	No	21	0.006405	0.001431	9.524	None	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.0101	0.006438	0.04	No	21	0.008271	0.003324	4.762	None	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.005567	0.004678	0.04	No	21	0.005143	0.0008286	4.762	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-19	0.05589	0.04811	0.04	Yes	21	0.052	0.007043	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-20	0.15	0.11	0.04	Yes	6	0.1233	0.01751	0	None	No	0.0155	NP (normality)
Lithium (mg/L)	WGWC-21	0.05047	0.0222	0.04	No	6	0.03633	0.01029	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-22	0.011	0.0081	0.04	No	6	0.01023	0.001247	0	None	No	0.0155	NP (normality)
Lithium (mg/L)	WGWC-23	0.005	0.0015	0.04	No	6	0.003917	0.001686	66.67	None	No	0.0155	NP (NDs)
Lithium (mg/L)	WGWC-24	0.009566	0.005034	0.04	No	6	0.0073	0.001649	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-25	0.004743	0.003657	0.04	No	6	0.0042	0.000395	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-8	0.017	0.013	0.04	No	21	0.01689	0.009837	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03775	0.03239	0.04	No	21	0.03507	0.004864	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.1	No	21	0.01366	0.004235	90.48	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.1	No	21	0.0137	0.004092	90.48	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.00095	0.1	No	21	0.01112	0.006342	71.43	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-13	0.0028	0.0013	0.1	No	21	0.003903	0.004722	14.29	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.1	No	21	0.01433	0.003055	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.006357	0.003208	0.1	No	21	0.005067	0.003399	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.005121	0.002568	0.1	No	21	0.004077	0.002505	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-19	0.015	0.0012	0.1	No	21	0.005857	0.006626	33.33	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-20	0.015	0.00062	0.1	No	4	0.007852	0.008254	50	None	No	0.0625	NP (normality)
Molybdenum (mg/L)	WGWC-21	0.04858	0.02592	0.1	No	4	0.03725	0.004992	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-22	0.015	0.00084	0.1	No	4	0.01146	0.00708	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	WGWC-9	0.005876	0.003492	0.1	No	21	0.005144	0.003374	0	None	ln(x)	0.01	Param.
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	21	0.004777	0.001023	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	21	0.004785	0.0009842	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	21	0.004862	0.0006328	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	21	0.004776	0.001026	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	21	0.004786	0.000982	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.01044	0.005226	0.05	No	21	0.007831	0.004721	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	21	0.004779	0.001013	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-20	0.005	0.0014	0.05	No	4	0.00235	0.001769	25	None	No	0.0625	NP (normality)
Selenium (mg/L)	WGWC-22	0.008596	0.003054	0.05	No	4	0.005825	0.00122	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-23	0.002621	0.001479	0.05	No	4	0.00205	0.0002517	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-24	0.005	0.00077	0.05	No	4	0.003942	0.002115	75	None	No	0.0625	NP (NDs)
Selenium (mg/L)	WGWC-8	0.003875	0.00318	0.05	No	21	0.003528	0.0006299	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-9	0.00279	0.002217	0.05	No	21	0.002504	0.0005195	0	None	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	21	0.0009564	0.0001997	95.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-11	0.001	0.00016	0.002	No	21	0.00096	0.0001833	95.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00014	0.002	No	21	0.0005605	0.0004303	47.62	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-16	0.001	0.00017	0.002	No	21	0.0005267	0.0004215	42.86	None	No	0.01	NP (normality)
Thallium (mg/L)	WGWC-19	0.001	0.00018	0.002	No	21	0.000961	0.0001789	95.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-22	0.001	0.00047	0.002	No	4	0.0008675	0.000265	75	None	No	0.0625	NP (NDs)
Thallium (mg/L)	WGWC-24	0.0008018	0.0004282	0.002	No	4	0.000615	0.00008226	0	None	No	0.01	Param.

Parametric and Non-Parametric (NP) Confidence Interval

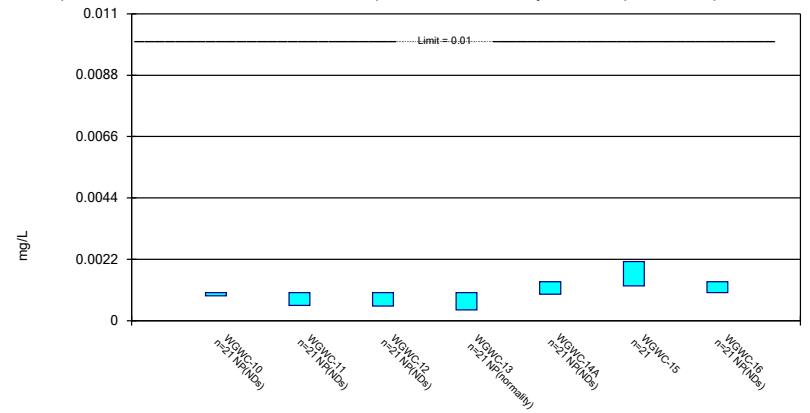
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

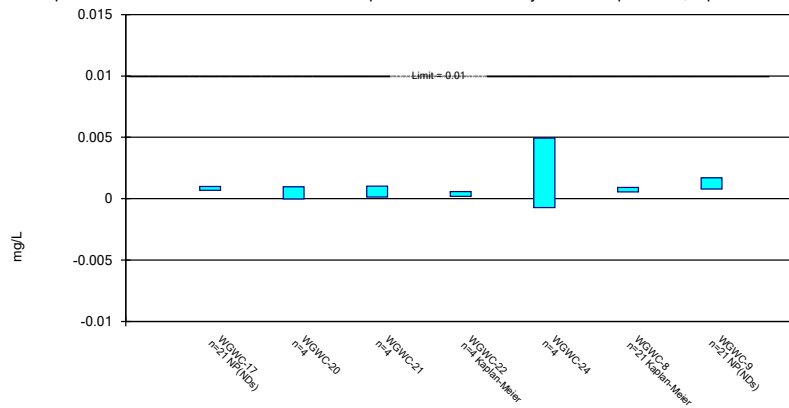
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

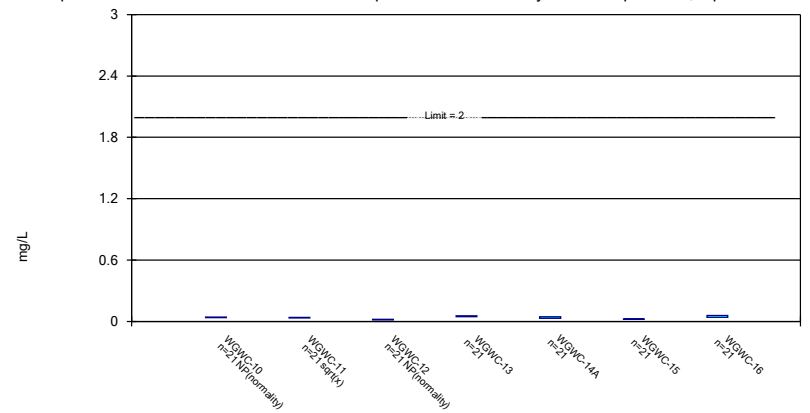
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

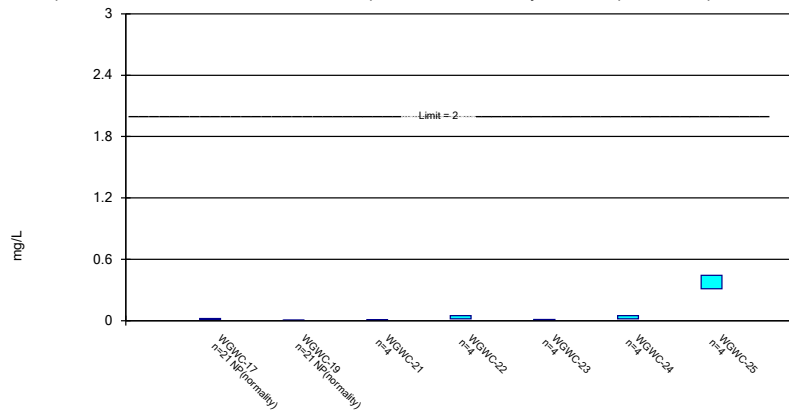
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

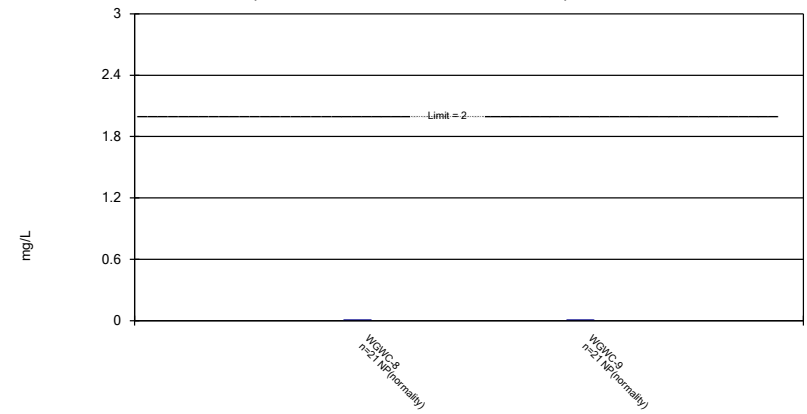
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

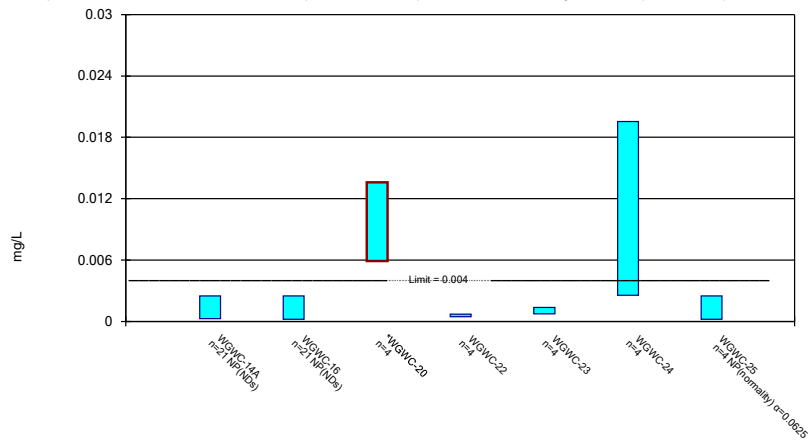
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Barium Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

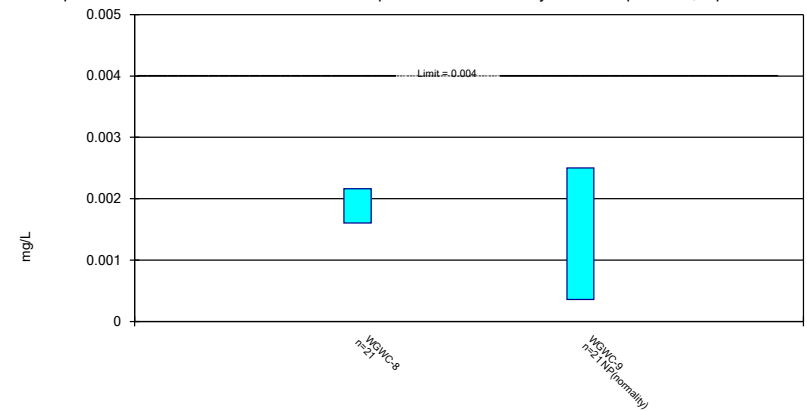
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

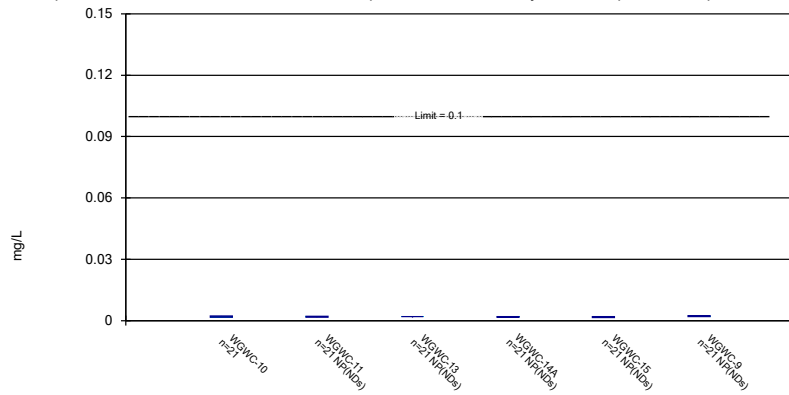
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

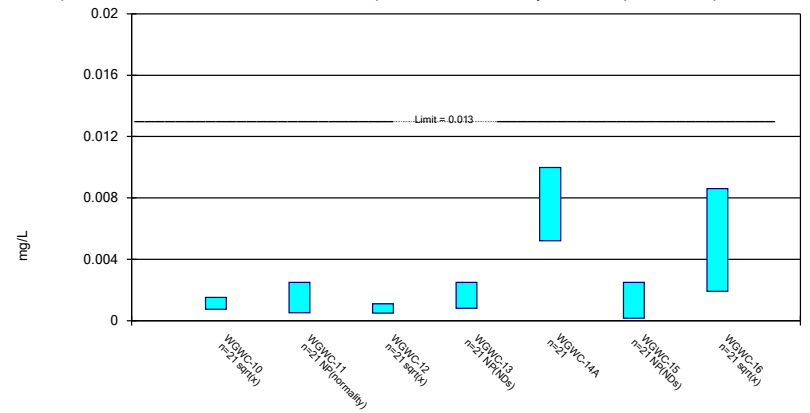
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

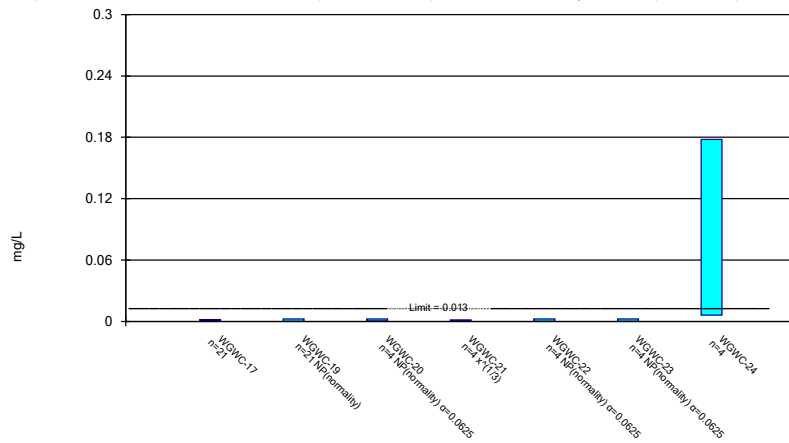
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

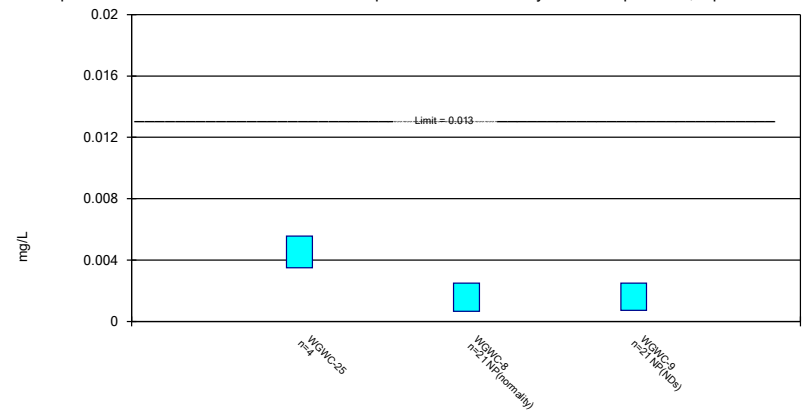
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

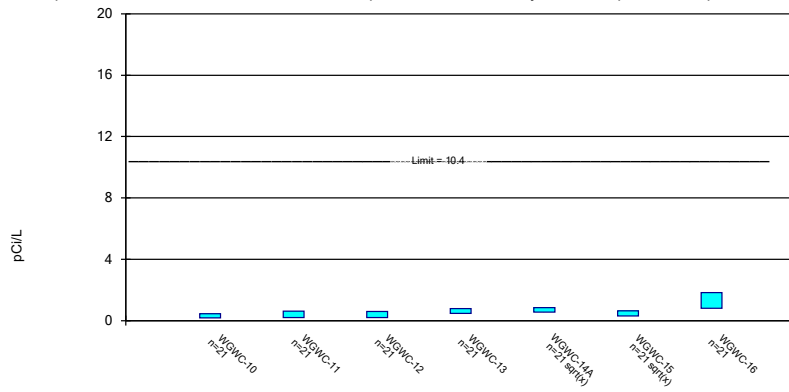
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

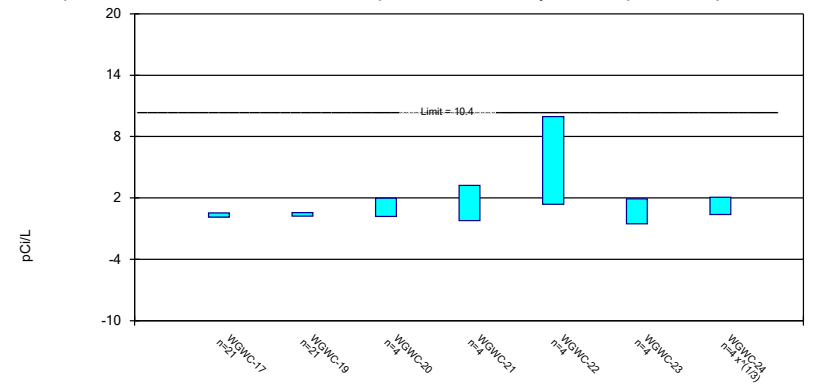
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

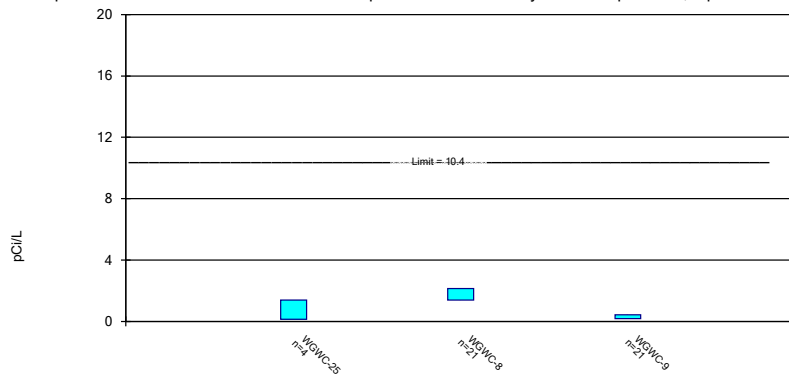
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

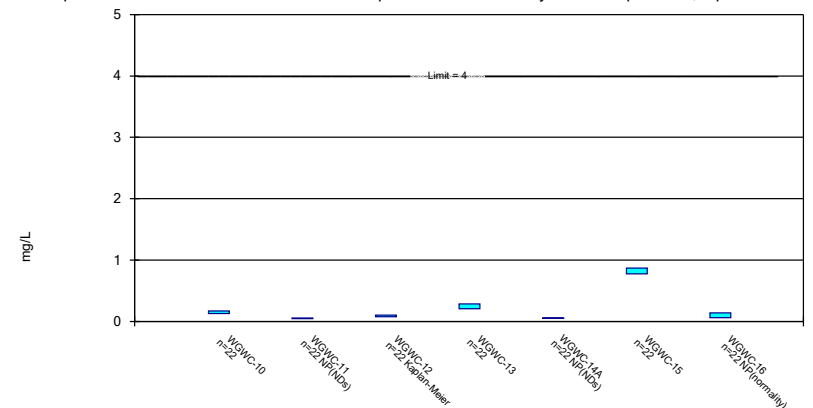
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

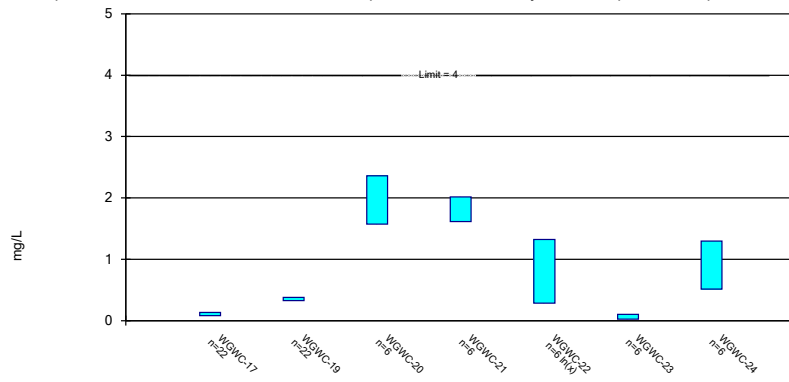
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

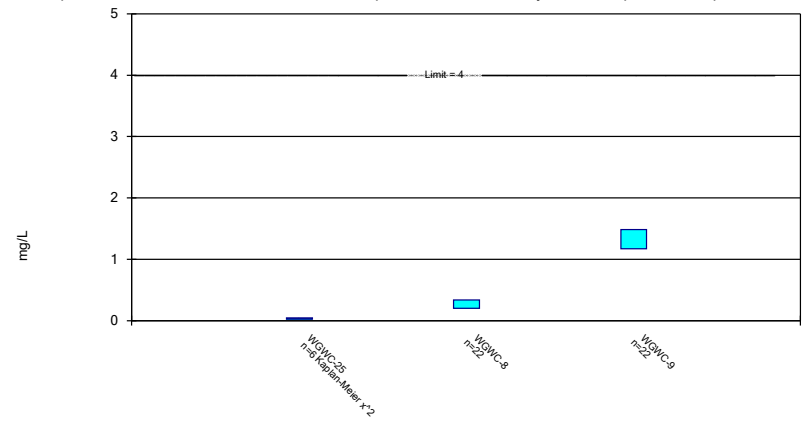
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric Confidence Interval

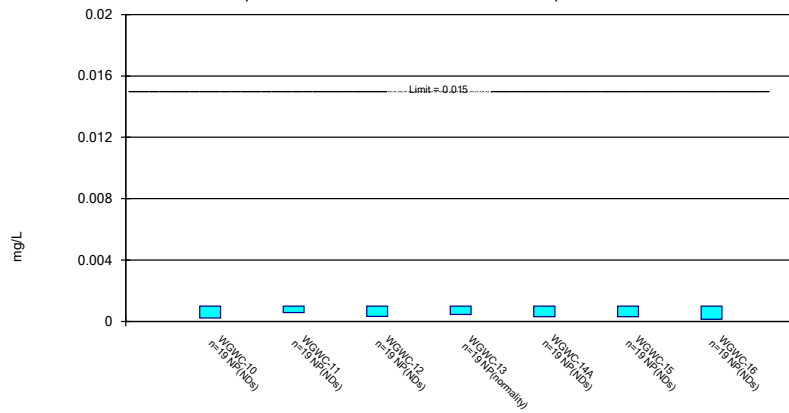
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Non-Parametric Confidence Interval

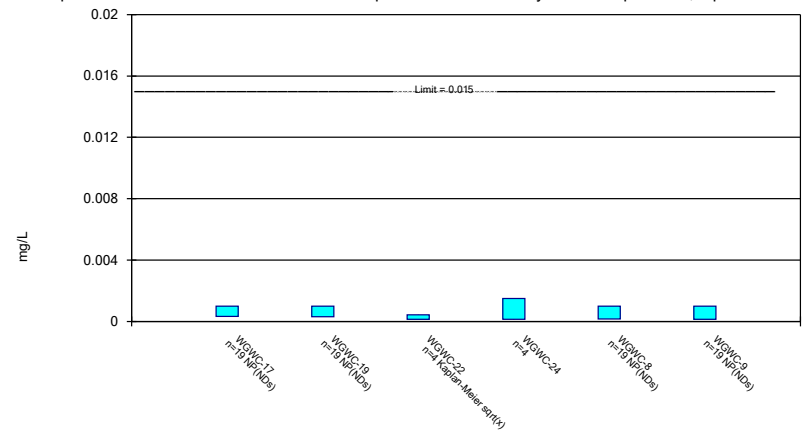
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

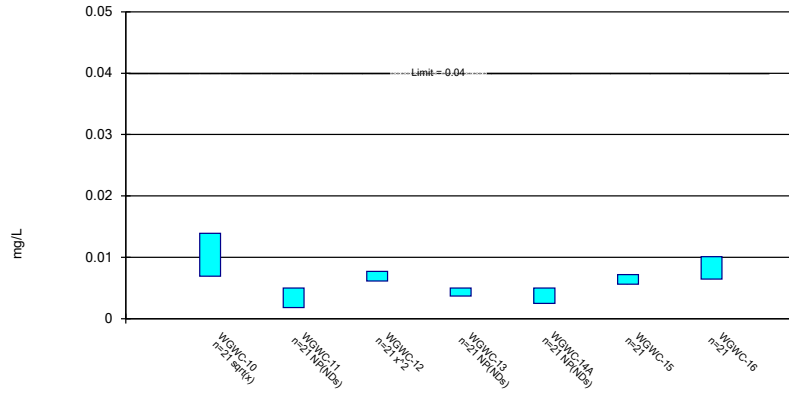
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

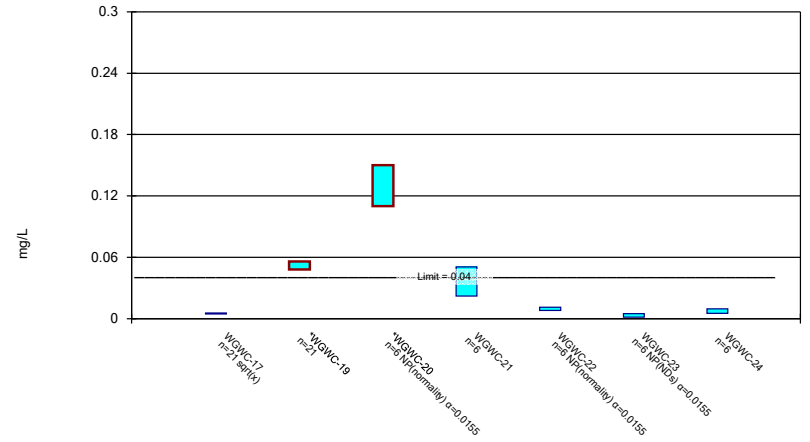
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

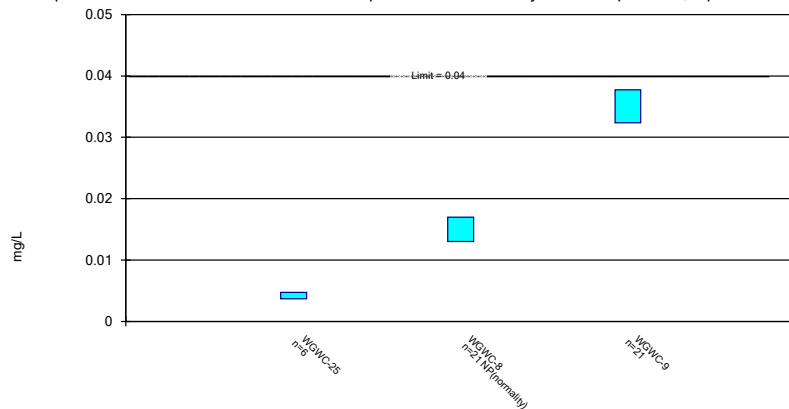
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

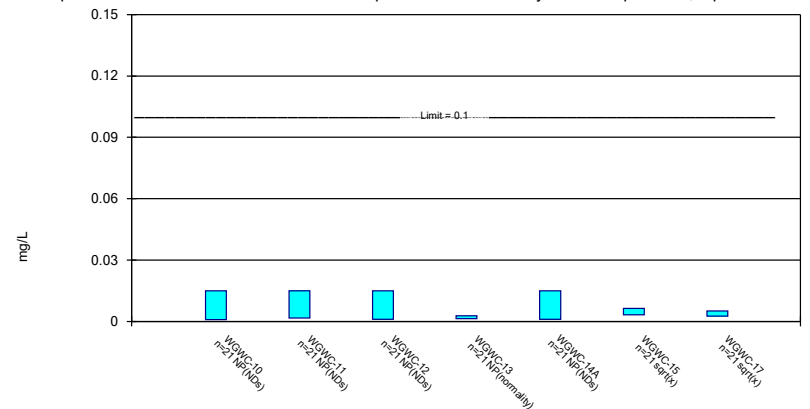
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

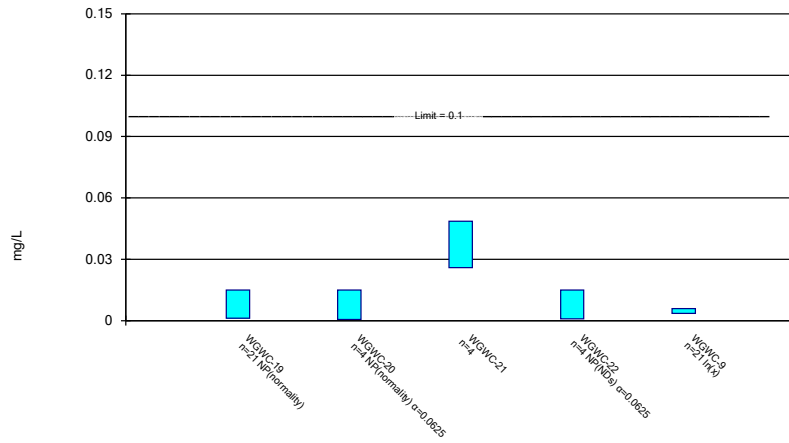
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

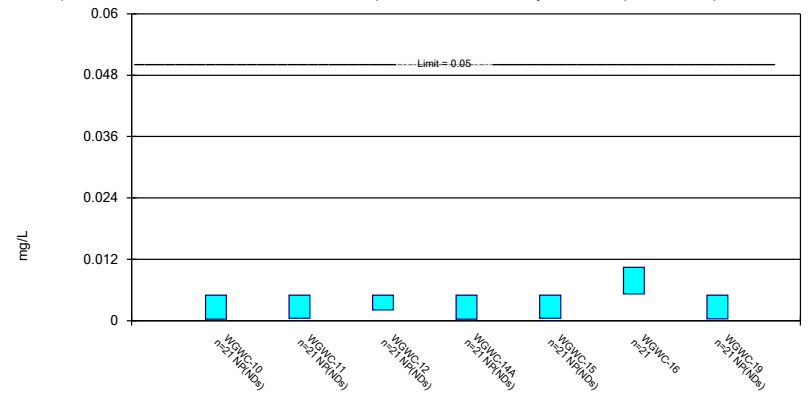
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

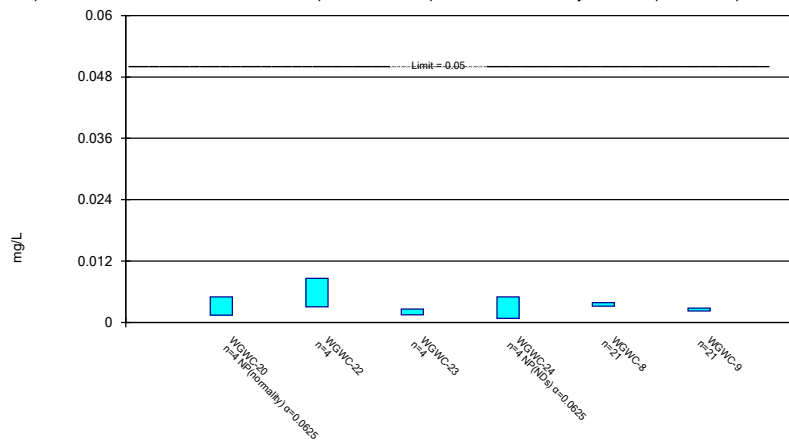
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

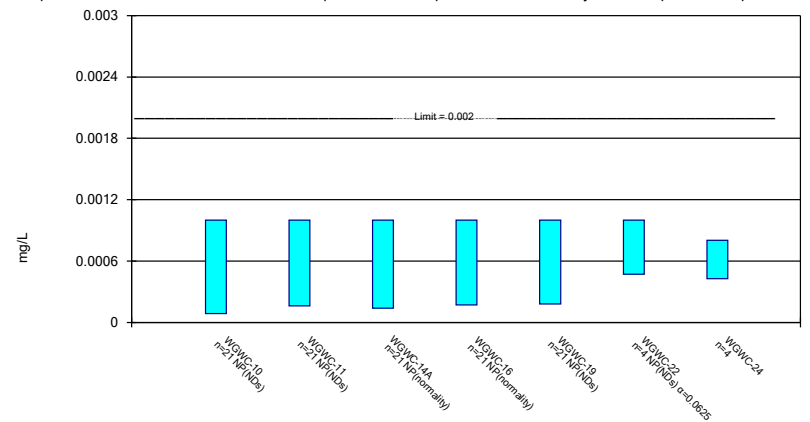
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 7/12/2022 9:30 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-12	WGWC-20	WGWC-21	WGWC-22	WGWC-23	WGWC-9
5/19/2016	<0.002					<0.002
7/20/2016	<0.002					<0.002
9/14/2016	<0.002					<0.002
11/11/2016	<0.002					
1/27/2017	<0.002					
2/9/2017						<0.002
3/15/2017	<0.002					0.0011 (J)
4/11/2017						<0.002
4/26/2017	<0.002					<0.002
8/10/2017	0.0023 (J)					<0.002
3/29/2018	<0.002					<0.002
2/27/2019	<0.002					
2/28/2019						<0.002
2/5/2020	<0.002					<0.002
3/18/2020	<0.002					
3/19/2020						0.00041 (J)
2/3/2021	<0.002					
2/4/2021						0.00041 (J)
3/12/2021	<0.002					<0.002
8/25/2021	<0.002					
8/26/2021		<0.002	0.00076 (J)	<0.002	<0.002	<0.002
1/11/2022			<0.002	0.00078 (J)	0.0012 (J)	
1/12/2022		0.00066 (J)				
3/3/2022			0.00053 (J)			0.008
3/4/2022	<0.002	0.0011 (J)		0.00082 (J)	0.0018 (J)	
6/6/2022			<0.002		0.0013 (J)	
6/7/2022		<0.002		0.00054 (J)		
Mean	0.002019	0.00144	0.001323	0.001035	0.001575	0.00212
Std. Dev.	7.5E-05	0.0006711	0.0007879	0.0006551	0.0003862	0.001666
Upper Lim.	0.0023	0.001379	0.0009061	0.0009941	0.002029	0.008
Lower Lim.	0.002	0.0003805	0.0003839	0.0004326	0.0008374	0.0011

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016	<0.001					0.00345	<0.001
5/19/2016		<0.001	<0.001	<0.001			
7/19/2016						0.0031	0.0009 (J)
7/20/2016	<0.001	<0.001	<0.001	<0.001			
9/14/2016	<0.001	<0.001	<0.001	<0.001		0.0024	0.0014
11/10/2016				<0.001		0.0023	0.0021
11/11/2016	<0.001	<0.001	<0.001				
1/24/2017						0.0019	0.0015
1/27/2017		0.00047 (J)	<0.001	0.00066 (J)			
2/6/2017	<0.001						
2/8/2017					<0.001		
2/23/2017					<0.001		
3/14/2017						0.0016	
3/15/2017	<0.001	<0.001	<0.001	<0.001			0.0014
3/17/2017					0.0006 (J)		
4/11/2017					0.0032		
4/25/2017						0.0019	0.0014
4/26/2017	<0.001	<0.001	<0.001	<0.001	0.0019		
5/17/2017					0.0014		
6/7/2017					0.0021		
7/11/2017					0.00095 (J)		
8/9/2017				<0.001		0.0017	0.0013
8/10/2017	<0.001	<0.001	0.00048 (J)				
3/29/2018		<0.001	<0.001	0.00067 (J)	<0.001		0.0014
3/30/2018	<0.001					0.0018	
6/14/2018	0.0005 (J)	<0.001	0.00052 (J)	0.00093 (J)	<0.001	0.002	<0.001
10/3/2018						0.0024	
10/4/2018	0.00089 (J)	0.00054 (J)	<0.001	0.0015	0.0017		0.0013
2/27/2019	<0.001	<0.001	<0.001	0.00036 (J)	<0.001	0.0015	0.00046 (J)
4/3/2019		<0.001	<0.001	0.00053 (J)	<0.001		
4/4/2019	<0.001					0.0019	<0.001
9/18/2019				0.00039 (J)	<0.001	0.0016	<0.001
9/19/2019	0.00038 (J)	<0.001	<0.001				
2/5/2020	0.00035 (J)	<0.001	<0.001	0.00048 (J)	<0.001		
2/7/2020						0.001	<0.001
3/18/2020	<0.001	<0.001	<0.001			0.00088 (J)	<0.001
3/19/2020				0.00039 (J)	<0.001		
9/23/2020	<0.001		<0.001			0.00061 (J)	<0.001
9/24/2020		0.00051 (J)		<0.001	<0.001		
2/3/2021		<0.001	<0.001				
2/4/2021	<0.001			0.00038 (J)	<0.001	0.00069 (J)	<0.001
3/11/2021	0.00031 (J)			0.00035 (J)	<0.001		<0.001
3/12/2021		<0.001	<0.001			0.00084 (J)	
8/25/2021		<0.001	<0.001	<0.001	<0.001		<0.001
8/26/2021	<0.001					0.0012	
3/3/2022	<0.001	<0.001		<0.001	<0.001	0.00057 (J)	<0.001
3/4/2022			0.00037 (J)				
Mean	0.0008776	0.0009295	0.0009224	0.0007924	0.001231	0.001683	0.00115
Std. Dev.	0.0002481	0.0001772	0.0001964	0.0003183	0.0005724	0.0007834	0.0003245
Upper Lim.	0.001	0.001	0.001	0.001	0.0014	0.002115	0.0014
Lower Lim.	0.00089	0.00054	0.00052	0.00039	0.00095	0.001251	0.001

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-20	WGWC-21	WGWC-22	WGWC-24	WGWC-8	WGWC-9
5/18/2016	<0.001						
5/19/2016						<0.001	<0.001
7/20/2016	0.00058 (J)					0.00055 (J)	0.00078 (J)
9/14/2016	<0.001						<0.001
9/15/2016						<0.001	
11/10/2016	0.00082 (J)						
11/14/2016						<0.001	
1/20/2017	<0.001						
2/6/2017						<0.001	
2/9/2017							0.0017
3/14/2017	<0.001						
3/15/2017						<0.001	0.00047 (J)
4/11/2017							<0.001
4/25/2017	0.00095 (J)						
4/26/2017						<0.001	<0.001
8/9/2017	<0.001						
8/10/2017						<0.001	<0.001
3/29/2018						<0.001	<0.001
3/30/2018	<0.001						
6/14/2018	0.00076 (J)					<0.001	<0.001
10/4/2018	0.00088 (J)					0.0015	<0.001
2/26/2019	0.0005 (J)						
2/27/2019						0.00047 (J)	
2/28/2019							<0.001
4/3/2019						<0.001	<0.001
4/4/2019	<0.001						
9/18/2019	<0.001						
9/19/2019						0.00032 (J)	<0.001
2/5/2020							<0.001
2/7/2020	0.00075 (J)					0.0011	
3/18/2020	0.00054 (J)						
3/19/2020						0.00071 (J)	<0.001
9/22/2020						0.0011	
9/23/2020	0.00067 (J)						<0.001
2/3/2021						0.0013	
2/4/2021	0.00035 (J)						<0.001
3/11/2021	<0.001					0.0009 (J)	
3/12/2021							<0.001
8/25/2021	<0.001						
8/26/2021		0.00031 (J)	0.00057 (J)	<0.001	0.0033	0.0013	<0.001
1/11/2022			0.00036 (J)	<0.001	0.0017		
1/12/2022		0.00052 (J)					
3/3/2022			0.00053 (J)		0.0029	0.0014	<0.001
3/4/2022	<0.001	0.00078 (J)		0.00046 (J)			
6/6/2022			0.00083 (J)		0.00054 (J)		
6/7/2022		0.00033 (J)		0.00029 (J)			
Mean	0.0008476	0.000485	0.0005725	0.0006875	0.00211	0.0009833	0.0009976
Std. Dev.	0.0002063	0.0002183	0.0001943	0.0003675	0.001248	0.0002867	0.0002024
Upper Lim.	0.001	0.0009805	0.001014	0.000568	0.004944	0.0009225	0.0017
Lower Lim.	0.00067	-1.051E-05	0.0001313	0.000182	-0.0007236	0.0005404	0.00078

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016	0.0391					0.0206	0.0715
5/19/2016		0.031	0.0214	0.055			
7/19/2016						0.019	0.069
7/20/2016	0.028	0.029	0.019	0.039			
9/14/2016	0.035	0.031	0.02	0.04		0.02	0.066
11/10/2016				0.04		0.02	0.069
11/11/2016	0.042	0.034	0.022				
1/24/2017						0.017	0.068
1/27/2017		0.042	0.023	0.042			
2/6/2017	0.041						
2/8/2017					0.037		
2/23/2017					0.051		
3/14/2017						0.018	
3/15/2017	0.04	0.032	0.024	0.058			0.065
3/17/2017					0.046		
4/11/2017					0.055		
4/25/2017						0.018	0.057
4/26/2017	0.039	0.03	0.004	0.054	0.042		
5/17/2017					0.052		
6/7/2017					0.06		
7/11/2017					0.038		
8/9/2017				0.055		0.02	0.069
8/10/2017	0.038	0.03	0.017				
3/29/2018		0.028	0.017	0.061	0.028		0.05
3/30/2018	0.042					0.021	
6/14/2018	0.038	0.03	0.015	0.055	0.023	0.022	0.046
10/3/2018						0.024	
10/4/2018	0.04	0.035	0.017	0.046	0.036		0.046
2/27/2019	0.04	0.04	0.016	0.054	0.028	0.023	0.028
4/3/2019		0.035	0.015	0.056	0.026		
4/4/2019	0.04					0.022	0.027
9/18/2019				0.062	0.025	0.026	0.032
9/19/2019	0.038	0.033	0.016				
2/5/2020	0.061	0.047	0.016	0.052	0.077		
2/7/2020						0.022	0.034
3/18/2020	0.035	0.038	0.016			0.021	0.034
3/19/2020				0.072	0.031		
9/23/2020	0.035		0.016			0.027	0.037
9/24/2020		0.061		0.038	0.034		
2/3/2021		0.039	0.015				
2/4/2021	0.035			0.047	0.029	0.028	0.039
3/11/2021	0.033			0.049	0.032		0.037
3/12/2021		0.045	0.017			0.028	
8/25/2021		0.04	0.016	0.046	0.03		0.035
8/26/2021	0.032					0.029	
3/3/2022	0.033	0.04		0.045	0.029	0.029	0.041
3/4/2022			0.016				
Mean	0.03829	0.03667	0.01707	0.05076	0.03852	0.0226	0.0486
Std. Dev.	0.006358	0.0078	0.004064	0.008786	0.01379	0.003811	0.01582
Upper Lim.	0.041	0.04048	0.02	0.05561	0.04613	0.0247	0.05732
Lower Lim.	0.035	0.03237	0.015	0.04592	0.03092	0.0205	0.03987

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-21	WGWC-22	WGWC-23	WGWC-24	WGWC-25
5/18/2016	0.0219						
7/20/2016	0.019						
9/14/2016	0.017						
11/10/2016	0.02						
11/11/2016		0.0022 (J)					
1/20/2017	0.018						
2/6/2017		0.0018 (J)					
3/14/2017	0.019						
3/15/2017		0.0015 (J)					
4/11/2017		0.0014 (J)					
4/25/2017	0.023						
4/26/2017		0.0014 (J)					
6/7/2017		0.0014 (J)					
7/11/2017		0.0013 (J)					
8/9/2017	0.017						
8/10/2017		0.0012 (J)					
3/29/2018		0.00097 (J)					
3/30/2018	0.015						
6/14/2018	0.013	0.0011 (J)					
10/4/2018	0.013	0.0012 (J)					
2/26/2019	0.012						
2/28/2019		<0.01					
4/2/2019		0.0013 (J)					
4/4/2019	0.011						
9/18/2019	0.011	<0.01					
2/7/2020	0.011	0.0065 (J)					
3/18/2020	0.012						
5/4/2020		<0.01					
9/23/2020	0.012	<0.01					
2/3/2021		<0.01					
2/4/2021	0.012						
3/11/2021	0.011	<0.01					
8/25/2021	0.011						
8/26/2021		<0.01	0.0086 (J)	0.031	0.0078 (J)	0.042	0.41
1/11/2022			0.0076 (J)	0.04	0.0072 (J)	0.029	0.38
3/3/2022		<0.01	0.0068 (J)			0.028	
3/4/2022	0.011			0.038	0.0081 (J)		0.38
6/6/2022			0.0079 (J)		0.0097 (J)	0.032	
6/7/2022				0.025			0.34
Mean	0.01476	0.003013	0.007725	0.0335	0.0082	0.03275	0.3775
Std. Dev.	0.004027	0.001953	0.0007455	0.006856	0.001068	0.006397	0.02872
Upper Lim.	0.019	0.005	0.009418	0.04906	0.01062	0.04727	0.4427
Lower Lim.	0.011	0.0013	0.006032	0.01794	0.005776	0.01823	0.3123

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-8	WGWC-9
5/19/2016	0.0026	<0.01
7/20/2016	0.0017 (J)	0.0014 (J)
9/14/2016		0.00092 (J)
9/15/2016	0.0039	
11/14/2016	0.00085 (J)	
2/6/2017	0.0011 (J)	
2/9/2017		0.0015 (J)
3/15/2017	0.0013 (J)	0.00054 (J)
4/11/2017		0.0007 (J)
4/26/2017	0.00098 (J)	<0.01
8/10/2017	0.0025	0.00053 (J)
3/29/2018	0.00085 (J)	<0.01
6/14/2018	0.0028	0.00088 (J)
10/4/2018	0.0017 (J)	0.00076 (J)
2/27/2019	<0.01	
2/28/2019		0.0023 (J)
4/3/2019	0.001 (J)	<0.01
9/19/2019	<0.01	0.0018 (J)
2/5/2020		0.0022 (J)
2/7/2020	<0.01	
3/19/2020	<0.01	0.0021 (J)
9/22/2020	<0.01	
9/23/2020		<0.01
2/3/2021	<0.01	
2/4/2021		0.0016 (J)
3/11/2021	<0.01	
3/12/2021		<0.01
8/26/2021	<0.01	<0.01
3/3/2022	<0.01	<0.01
Mean	0.003156	0.002725
Std. Dev.	0.001788	0.001895
Upper Lim.	0.005	0.005
Lower Lim.	0.0011	0.00088

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-16	WGWC-20	WGWC-22	WGWC-23	WGWC-24	WGWC-25
5/18/2016		<0.0025					
7/19/2016		<0.0025					
9/14/2016		<0.0025					
11/10/2016		<0.0025					
1/24/2017		<0.0025					
2/8/2017	<0.0025						
2/23/2017	<0.0025						
3/15/2017		<0.0025					
3/17/2017	<0.0025						
4/11/2017	<0.0025						
4/25/2017		<0.0025					
4/26/2017	<0.0025						
5/17/2017	<0.0025						
6/7/2017	<0.0025						
7/11/2017	<0.0025						
8/9/2017		<0.0025					
3/29/2018	<0.0025	<0.0025					
6/14/2018	<0.0025	<0.0025					
10/4/2018	<0.0025	<0.0025					
2/27/2019	0.00017 (J)	0.00022 (J)					
4/3/2019	<0.0025						
4/4/2019		<0.0025					
9/18/2019	0.00032 (J)	<0.0025					
2/5/2020	0.00024 (J)						
2/7/2020		<0.0025					
3/18/2020		<0.0025					
3/19/2020	0.00025 (J)						
9/23/2020		<0.0025					
9/24/2020	0.00024 (J)						
2/4/2021	0.00026 (J)	<0.0025					
3/11/2021	<0.0025	<0.0025					
8/25/2021	<0.0025	<0.0025					
8/26/2021			0.0081	0.00053 (J)	0.00089 (J)	0.014	0.00028 (J)
1/11/2022				0.00057 (J)	0.0012 (J)	0.014	0.0002 (J)
1/12/2022			0.012				
3/3/2022	<0.0025	<0.0025				0.01	
3/4/2022			0.01	0.00066 (J)	0.00097 (J)		<0.0025
6/6/2022					0.0011 (J)	0.0062	
6/7/2022			0.0089	0.00055 (J)			0.0003 (J)
Mean	0.001856	0.002391	0.00975	0.0005775	0.00104	0.01105	0.00082
Std. Dev.	0.001043	0.0004975	0.00169	5.737E-05	0.0001374	0.003743	0.001121
Upper Lim.	0.0025	0.0025	0.01359	0.0007078	0.001352	0.01955	0.0025
Lower Lim.	0.00026	0.00022	0.005913	0.0004472	0.0007282	0.002552	0.0002

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-8	WGWC-9
5/19/2016	0.00102 (J)	<0.0025
7/20/2016	0.0014 (J)	<0.0025
9/14/2016		<0.0025
9/15/2016	0.00093 (J)	
11/14/2016	0.0014 (J)	
2/6/2017	0.0017 (J)	
2/9/2017		0.00041 (J)
3/15/2017	0.0016 (J)	<0.0025
4/11/2017		<0.0025
4/26/2017	0.0017 (J)	<0.0025
8/10/2017	0.0017 (J)	0.00034 (J)
3/29/2018	0.0018 (J)	<0.0025
6/14/2018	0.0015 (J)	<0.0025
10/4/2018	0.0019 (J)	0.00036 (J)
2/27/2019	0.0021 (J)	
2/28/2019		0.00031 (J)
4/3/2019	0.0019 (J)	<0.0025
9/19/2019	0.0019	0.00041 (J)
2/5/2020		0.0004 (J)
2/7/2020	0.0023	
3/19/2020	0.0028	0.00056 (J)
9/22/2020	0.0025	
9/23/2020		0.00034 (J)
2/3/2021	0.0025	
2/4/2021		0.00039 (J)
3/11/2021	0.0022 (J)	
3/12/2021		0.00034 (J)
8/26/2021	0.002 (J)	0.00038 (J)
3/3/2022	0.0027	0.00036 (J)
Mean	0.001883	0.00129
Std. Dev.	0.000503	0.001074
Upper Lim.	0.002161	0.0025
Lower Lim.	0.001606	0.00036

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-13	WGWC-14A	WGWC-15	WGWC-9
5/18/2016	<0.002				<0.002	
5/19/2016		<0.002	<0.002			<0.002
7/19/2016					<0.002	
7/20/2016	0.0012 (J)	<0.002	<0.002			<0.002
9/14/2016	<0.002	<0.002	<0.002		<0.002	<0.002
11/10/2016			<0.002		<0.002	
11/11/2016	0.0015 (J)	<0.002				
1/24/2017					<0.002	
1/27/2017		<0.002	<0.002			
2/6/2017	0.0011 (J)					
2/8/2017				<0.002		
2/9/2017						<0.002
2/23/2017				<0.002		
3/14/2017					<0.002	
3/15/2017	0.0015 (J)	<0.002	<0.002			<0.002
3/17/2017				<0.002		
4/11/2017				<0.002		<0.002
4/25/2017					<0.002	
4/26/2017	0.0013 (J)	0.0011 (J)	<0.002	<0.002		<0.002
5/17/2017				<0.002		
6/7/2017				<0.002		
7/11/2017				<0.002		
8/9/2017			<0.002		<0.002	
8/10/2017	0.0016 (J)	<0.002				<0.002
3/29/2018		0.0012 (J)	<0.002	<0.002		<0.002
3/30/2018	0.0027				<0.002	
6/14/2018	0.0023 (J)	<0.002	<0.002	<0.002	<0.002	<0.002
10/3/2018					<0.002	
10/4/2018	0.0031	<0.002	<0.002	<0.002		<0.002
2/27/2019	0.0031	0.0021 (J)	0.0018 (J)	<0.002	0.0015 (J)	
2/28/2019						0.0025
4/3/2019		<0.002	<0.002	<0.002		<0.002
4/4/2019	0.0021 (J)				<0.002	
9/18/2019			<0.002	<0.002	<0.002	
9/19/2019	0.0022	<0.002				<0.002
2/5/2020	0.0022	<0.002	<0.002	0.0017 (J)		<0.002
2/7/2020					<0.002	
3/18/2020	<0.002	<0.002			<0.002	
3/19/2020			<0.002	<0.002		<0.002
9/23/2020	0.0018 (J)				<0.002	<0.002
9/24/2020		<0.002	<0.002	<0.002		
2/3/2021		<0.002				
2/4/2021	0.0018 (J)		<0.002	<0.002	<0.002	<0.002
3/11/2021	0.0023		0.0019 (J)	<0.002		
3/12/2021		0.0017 (J)			<0.002	<0.002
8/25/2021		<0.002	0.0017 (J)	<0.002		
8/26/2021	0.0024				<0.002	<0.002
3/3/2022	0.0023	<0.002	<0.002	<0.002	<0.002	<0.002
Mean	0.002024	0.00191	0.001971	0.001986	0.001976	0.002024
Std. Dev.	0.0005522	0.0002625	7.838E-05	6.547E-05	0.0001091	0.0001091
Upper Lim.	0.002328	0.0021	0.002	0.002	0.002	0.0025
Lower Lim.	0.001719	0.0017	0.0019	0.0017	0.0015	0.002

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016	0.00201 (J)					<0.0025	0.0069
5/19/2016		<0.0025	<0.0025	<0.0025			
7/19/2016						<0.0025	0.012
7/20/2016	0.00066 (J)	0.0025	0.0013 (J)	<0.0025			
9/14/2016	0.00095 (J)	<0.0025	0.00098 (J)	<0.0025		<0.0025	0.013
11/10/2016				<0.0025		<0.0025	0.016
11/11/2016	0.001 (J)	0.00052 (J)	0.0017 (J)				
1/24/2017						<0.0025	0.015
1/27/2017		0.00049 (J)	0.0022 (J)	<0.0025			
2/6/2017	0.00072 (J)						
2/8/2017					0.0051		
2/23/2017					0.014		
3/14/2017						<0.0025	
3/15/2017	0.00062 (J)	0.00064 (J)	0.0016 (J)	<0.0025			0.014
3/17/2017					0.013		
4/11/2017					0.016		
4/25/2017						<0.0025	0.014
4/26/2017	0.0014 (J)	0.001 (J)	0.00026 (J)	<0.0025	0.01		
5/17/2017					0.011		
6/7/2017					0.01		
7/11/2017					0.0085		
8/9/2017				0.0004 (J)		<0.0025	0.016
8/10/2017	<0.0025	0.0011 (J)	0.00049 (J)				
3/29/2018		<0.0025	0.0008 (J)	0.0008 (J)	0.015		0.0092
3/30/2018	0.0035					<0.0025	
6/14/2018	0.0012 (J)	<0.0025	0.00067 (J)	0.00054 (J)	0.011	<0.0025	0.0035
10/3/2018						<0.0025	
10/4/2018	0.00086 (J)	<0.0025	0.00079 (J)	<0.0025	0.0055		0.0078
2/27/2019	0.0005 (J)	0.0022 (J)	0.0006 (J)	0.00013 (J)	0.0049	<0.0025	0.00084 (J)
4/3/2019		0.00081 (J)	0.00043 (J)	<0.0025	0.0056		
4/4/2019	0.0017 (J)					<0.0025	0.00077 (J)
9/18/2019				<0.0025	0.005	<0.0025	0.00011 (J)
9/19/2019	0.0023	<0.0025	0.00028 (J)				
2/5/2020	0.0013	0.00026 (J)	0.00058	<0.0025	0.0044		
2/7/2020						<0.0025	0.00016 (J)
3/18/2020	0.0012 (J)	0.00069 (J)	0.00071 (J)			<0.0025	0.00016 (J)
3/19/2020				<0.0025	0.0039		
9/23/2020	0.00062 (J)		0.00039 (J)			<0.0025	<0.0025
9/24/2020		<0.0025		0.00032 (J)	0.0035		
2/3/2021		0.00072 (J)	0.00017 (J)				
2/4/2021	0.00059 (J)			<0.0025	0.0041	0.00015 (J)	0.00026 (J)
3/11/2021	0.00058 (J)			<0.0025	0.0037		0.00013 (J)
3/12/2021		0.0022 (J)	0.00042 (J)			<0.0025	
8/25/2021		0.00045 (J)	0.0005 (J)	<0.0025	0.0029		<0.0025
8/26/2021	0.00044 (J)					<0.0025	
3/3/2022	0.00045 (J)	0.00026 (J)		<0.0025	0.0024 (J)	<0.0025	<0.0025
3/4/2022			0.00056 (J)				
Mean	0.001195	0.001492	0.0008538	0.002009	0.007595	0.002388	0.00654
Std. Dev.	0.0008045	0.0009494	0.0006437	0.0009069	0.004341	0.0005128	0.006203
Upper Lim.	0.001508	0.0025	0.001094	0.0025	0.00999	0.0025	0.008605
Lower Lim.	0.0007381	0.00052	0.0004832	0.0008	0.0052	0.00015	0.001904

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23	WGWC-24
5/18/2016	0.00245 (J)						
7/20/2016	0.0018 (J)						
9/14/2016	0.0014 (J)						
11/10/2016	0.0016 (J)						
11/11/2016		<0.0025					
1/20/2017	0.0014 (J)						
2/6/2017		0.00058 (J)					
3/14/2017	0.0023 (J)						
3/15/2017		0.00045 (J)					
4/11/2017		<0.0025					
4/25/2017	0.0023 (J)						
4/26/2017		<0.0025					
6/7/2017		<0.0025					
7/11/2017		<0.0025					
8/9/2017	0.0011 (J)						
8/10/2017		0.00049 (J)					
3/29/2018		<0.0025					
3/30/2018	0.0016 (J)						
6/14/2018	0.00055 (J)	<0.0025					
10/4/2018	0.00041 (J)	<0.0025					
2/26/2019	0.00086 (J)						
2/28/2019		0.00019 (J)					
4/2/2019		<0.0025					
4/4/2019	<0.0025						
9/18/2019	0.00018 (J)	0.00045 (J)					
2/7/2020	0.00077	0.00024 (J)					
3/18/2020	0.00052 (J)						
5/4/2020		0.00018 (J)					
9/23/2020	0.0009 (J)	0.00024 (J)					
2/3/2021		0.00025 (J)					
2/4/2021	0.00042 (J)						
3/11/2021	0.00035 (J)	0.00022 (J)					
8/25/2021	0.00042 (J)						
8/26/2021		0.00022 (J)	0.00046 (J)	0.00042 (J)	0.00038 (J)	0.00017 (J)	0.13
1/11/2022				0.00032 (J)	0.00025 (J)	0.00016 (J)	0.11
1/12/2022			0.00037 (J)				
3/3/2022		0.00034 (J)		0.00042 (J)			0.086
3/4/2022	0.00026 (J)		<0.0025		0.00034 (J)	<0.0025	
6/6/2022				0.001 (J)		<0.0025	0.042
6/7/2022			<0.0025		<0.0025		
Mean	0.001147	0.001255	0.001457	0.00054	0.0008675	0.001332	0.092
Std. Dev.	0.0007793	0.00111	0.001204	0.0003103	0.00109	0.001348	0.03788
Upper Lim.	0.001577	0.0025	0.0025	0.001378	0.0025	0.0025	0.178
Lower Lim.	0.0007172	0.00024	0.00037	0.0001093	0.00025	0.00016	0.006006

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-25	WGWC-8	WGWC-9
5/19/2016		<0.0025	<0.0025
7/20/2016		<0.0025	<0.0025
9/14/2016			<0.0025
9/15/2016		<0.0025	
11/14/2016		<0.0025	
2/6/2017		<0.0025	
2/9/2017			0.00073 (J)
3/15/2017		<0.0025	<0.0025
4/11/2017			<0.0025
4/26/2017		<0.0025	<0.0025
8/10/2017		<0.0025	<0.0025
3/29/2018		0.00066 (J)	<0.0025
6/14/2018		0.0011 (J)	<0.0025
10/4/2018		<0.0025	<0.0025
2/27/2019		0.0019 (J)	
2/28/2019			<0.0025
4/3/2019		0.0037	<0.0025
9/19/2019		0.0028	<0.0025
2/5/2020			<0.0025
2/7/2020		0.0011	
3/19/2020		0.00092 (J)	<0.0025
9/22/2020		0.00065 (J)	
9/23/2020			<0.0025
2/3/2021		0.00014 (J)	
2/4/2021			<0.0025
3/11/2021		0.00043 (J)	
3/12/2021			<0.0025
8/26/2021	0.005	0.0005 (J)	<0.0025
1/11/2022	0.0048		
3/3/2022		0.0003 (J)	<0.0025
3/4/2022	0.004		
6/7/2022	0.0043		
Mean	0.004525	0.001748	0.002416
Std. Dev.	0.0004573	0.001047	0.0003862
Upper Lim.	0.005563	0.0025	0.0025
Lower Lim.	0.003487	0.00065	0.00073

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016	0.182 (U)					0.569	1.03
5/19/2016		0.431 (U)	0.0698 (U)	0.219 (U)			
7/19/2016						0.29 (U)	2.39
7/20/2016	-0.135 (U)	-0.263 (U)	-0.0646 (U)	0.404 (U)			
9/14/2016	0.311 (U)	0.13 (U)	0.199 (U)	0.692		0.412 (U)	3.05
11/10/2016				1		0.709	2.87
11/11/2016	0.542	0.0257 (U)	0.467				
1/24/2017						0.779	2.68
1/27/2017		0.898	0.836	0.668			
2/6/2017	0.104 (U)						
2/8/2017					0.958		
2/23/2017					0.771		
3/14/2017						0.247 (U)	
3/15/2017	0.523	0.121 (U)	0.254 (U)	0.847			1.64
3/17/2017					1.7		
4/11/2017					0.901		
4/25/2017						0.515	0.878
4/26/2017	0.069 (U)	0.0309 (U)	0.267 (U)	0.408 (U)	0.434		
5/17/2017					0.632		
6/7/2017					1.06		
7/11/2017					0.716		
8/9/2017				0.816		1.7	2.5
8/10/2017	0.189 (U)	0.326 (U)	0.912				
3/29/2018		0.461	0.419	0.51	0.58		1.6
3/30/2018	0.575					0.0985 (U)	
6/14/2018	0.523	0.275 (U)	-0.263 (U)	0.463	0.55	0.171 (U)	1.09
10/3/2018						0.766	
10/4/2018	0.84	1.18	1.29	0.99	0.563		1.99
2/27/2019	0.236 (U)	0.374	0.415	1.08	0.538	0.363 (U)	0.721
4/3/2019		0.187 (U)	0.264 (U)	0.446	0.497		
4/4/2019	0.233 (U)					0.418	0.632
9/18/2019				0.392	0.376 (U)	0.484	0.278 (U)
9/19/2019	0.124 (U)	0.338 (U)	0.329 (U)				
2/5/2020	0.0961 (U)	0.163 (U)	0.225 (U)	0.609	0.5		
2/7/2020						0.125 (U)	0.797
3/18/2020	0.461 (U)	0.866	-0.0262 (U)			0.303 (U)	0.437
3/19/2020				0.47	0.376 (U)		
9/23/2020	0.442 (U)		0.785			0.448 (U)	0.276 (U)
9/24/2020		1.2		1.02	0.796		
2/3/2021		0.718	0.322 (U)				
2/4/2021	0.0332 (U)			0.139 (U)	0.564	0.488 (U)	0.727
3/11/2021	0.42 (U)			0.473	0.764		0.942
3/12/2021		0.0729 (U)	0.633			0.591	
8/25/2021		0.401	0.443 (U)	0.913	0.705		0.518
8/26/2021	0.321 (U)					0.678	
3/3/2022	0.587	0.622		0.621	0.956	0.358 (U)	0.573
3/4/2022			0.408				
Mean	0.3179	0.4075	0.3897	0.6276	0.7113	0.5006	1.315
Std. Dev.	0.2368	0.3852	0.3562	0.2722	0.2987	0.3384	0.9083
Upper Lim.	0.4486	0.62	0.5862	0.7778	0.8419	0.6311	1.816
Lower Lim.	0.1873	0.195	0.1932	0.4775	0.5469	0.31	0.8141

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23	WGWC-24
5/18/2016	0.116 (U)						
7/20/2016	0.247 (U)						
9/14/2016	0.594						
11/10/2016	0.431						
11/11/2016		-0.11 (U)					
1/20/2017	1.35						
2/6/2017		0.471					
3/14/2017	-0.107 (U)						
3/15/2017		0.255 (U)					
4/11/2017		0.19 (U)					
4/25/2017	0.228 (U)						
4/26/2017		0.22 (U)					
6/7/2017		0.126 (U)					
7/11/2017		0.511					
8/9/2017	-0.0246 (U)						
8/10/2017		0.882					
3/29/2018		0.252 (U)					
3/30/2018	0.135 (U)						
6/14/2018	-0.373 (U)	0.0458 (U)					
10/4/2018	0.775	0.381					
2/26/2019	0.431						
2/28/2019		0.254 (U)					
4/2/2019		0.209 (U)					
4/4/2019	0.386						
9/18/2019	0.167 (U)	0.403 (U)					
2/7/2020	0.244 (U)	0.2 (U)					
3/18/2020	0.0655 (U)						
5/4/2020		0.0697 (U)					
9/23/2020	0.643	1.18					
2/3/2021		0.684					
2/4/2021	0.438 (U)						
3/11/2021	0.247 (U)	0.286 (U)					
8/25/2021	0.565						
8/26/2021		0.796	1.6	1.17	3.54	0.703	1.63
1/11/2022				0.919	6.91	0.218 (U)	0.749
1/12/2022			1.09				
3/3/2022		0.909		1.31			0.893
3/4/2022	0.573		0.925		7.57	0.437 (U)	
6/6/2022				2.61		1.45	0.845
6/7/2022			0.67		4.67		
Mean	0.3396	0.3912	1.071	1.502	5.673	0.702	1.029
Std. Dev.	0.3589	0.3281	0.3926	0.756	1.887	0.5367	0.4049
Upper Lim.	0.5376	0.5722	1.963	3.219	9.957	1.92	2.065
Lower Lim.	0.1416	0.2102	0.18	-0.2142	1.388	-0.5164	0.3783

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-25	WGWC-8	WGWC-9
5/19/2016		0.711 (U)	0.209 (U)
7/20/2016		1.14	-0.084 (U)
9/14/2016			0.42 (U)
9/15/2016		1.26	
11/14/2016		0.749	
2/6/2017		1.05	
2/9/2017			0.393
3/15/2017		1.32	0.271 (U)
4/11/2017			0.488 (U)
4/26/2017		1.07	0.14 (U)
8/10/2017		1.88	0.379
3/29/2018		2.31	0.278 (U)
6/14/2018		1.86	0.157 (U)
10/4/2018		2.44	0.48
2/27/2019		2.42	
2/28/2019			0.271 (U)
4/3/2019		1.55	0.0621 (U)
9/19/2019		2.06	0.537
2/5/2020			-0.137 (U)
2/7/2020		1.66	
3/19/2020		1.21	0.23 (U)
9/22/2020		1.75	
9/23/2020			0.0587 (U)
2/3/2021		2	
2/4/2021			0.353 (U)
3/11/2021		2.38	
3/12/2021			0.831
8/26/2021	1.12	2.87	0.681
1/11/2022	0.606		
3/3/2022		3.18	0.431 (U)
3/4/2022	0.818		
6/7/2022	0.5		
Mean	0.761	1.756	0.3071
Std. Dev.	0.2734	0.6816	0.236
Upper Lim.	1.382	2.132	0.4373
Lower Lim.	0.1402	1.38	0.1769

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016	0.206					0.779	0.1 (J)
5/19/2016		0.039 (J)	0.12 (J)	0.384			
7/19/2016						0.97	0.14 (J)
7/20/2016	0.23	<0.1	0.11 (J)	0.34			
9/14/2016	0.17 (J)	<0.1	0.095 (J)	0.31		0.89	0.18 (J)
11/10/2016				0.26		0.88	0.11 (J)
11/11/2016	0.14 (J)	<0.1	<0.1				
1/24/2017						0.92	0.15 (J)
1/27/2017		<0.1	<0.1	0.28			
2/6/2017	0.15 (J)						
2/8/2017					<0.1		
2/23/2017					<0.1		
3/14/2017						0.77	
3/15/2017	0.16 (J)	<0.1	<0.1	0.3			0.1 (J)
3/17/2017					<0.1		
4/11/2017					<0.1		
4/25/2017						0.95	0.13 (J)
4/26/2017	0.17 (J)	<0.1	<0.1	0.33	<0.1		
5/17/2017					<0.1		
6/7/2017					<0.1		
7/11/2017					<0.1		
8/9/2017				0.32		0.91	0.18 (J)
8/10/2017	0.2	<0.1	0.11 (J)				
10/11/2017					<0.1	0.88	<0.1
10/12/2017	0.14 (J)	<0.1	0.091 (J)	0.28			
3/29/2018		<0.1	0.089 (J)	0.27	<0.1		0.13 (J)
3/30/2018	0.13 (J)					0.79	
6/14/2018	0.15 (J)	<0.1	0.1 (J)	0.27	<0.1	0.79	<0.1
10/3/2018						0.79	
10/4/2018	0.18 (J)	<0.1	0.12 (J)	0.23	<0.1		0.85 (J)
2/27/2019	0.21	0.047 (J)	0.06 (J)	0.25	<0.1	0.81	0.47
4/3/2019		0.048 (J)	0.084 (J)	0.24	0.048 (J)		
4/4/2019	0.13 (J)					0.78	0.08 (J)
9/18/2019				0.22	0.035 (J)	0.81	0.058 (J)
9/19/2019	0.13 (J)	0.037 (J)	0.093 (J)				
2/5/2020	0.14	0.045 (J)	0.098 (J)	0.2	0.04 (J)		
2/7/2020						0.79	0.072 (J)
3/18/2020	0.052 (J)	<0.1	0.033 (J)			0.71	0.084 (J)
3/19/2020				0.15	<0.1		
9/23/2020	0.09 (J)		0.064 (J)			0.63	0.049 (J)
9/24/2020		0.18		<0.1	0.028 (J)		
2/3/2021		0.027 (J)	0.082 (J)				
2/4/2021	0.12			0.16	0.033 (J)	0.69	0.052 (J)
3/11/2021	0.15			0.18	0.04 (J)		0.061 (J)
3/12/2021		0.044 (J)	0.096 (J)			0.88	
8/25/2021		0.056 (J)	0.14	0.2	0.071 (J)		0.099 (J)
8/26/2021	0.16					0.77	
3/3/2022	0.067 (J)	0.055 (J)		0.21	0.057 (J)	0.88	0.067 (J)
3/4/2022			0.068 (J)				
Mean	0.1489	0.05355	0.08423	0.247	0.04782	0.8213	0.1483
Std. Dev.	0.04364	0.02893	0.02796	0.07463	0.008694	0.08562	0.1803
Upper Lim.	0.1723	0.055	0.09929	0.2871	0.057	0.8673	0.14

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
Lower Lim.	0.1254	0.047	0.0744	0.2069	0.048	0.7754	0.061

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23	WGWC-24
5/18/2016	0.121 (J)						
7/20/2016	0.16 (J)						
9/14/2016	0.19 (J)						
11/10/2016	0.15 (J)						
11/11/2016		0.32					
1/20/2017	0.18 (J)						
2/6/2017		0.45					
3/14/2017	0.11 (J)						
3/15/2017		0.37					
4/11/2017		0.37					
4/25/2017	0.13 (J)						
4/26/2017		0.4					
6/7/2017		0.35					
7/11/2017		0.39					
8/9/2017	0.19 (J)						
8/10/2017		0.42					
10/11/2017	0.14 (J)						
10/12/2017		0.36					
3/29/2018		0.34					
3/30/2018	0.095 (J)						
6/14/2018	0.11 (J)	0.35					
10/4/2018	0.11 (J)	0.35					
2/26/2019	0.068 (J)						
2/28/2019		0.28					
4/2/2019		0.33					
4/4/2019	0.087 (J)						
9/18/2019	0.066 (J)	0.32					
2/7/2020	0.079 (J)	0.35					
3/18/2020	<0.1						
5/4/2020		0.36					
9/23/2020	0.05 (J)	0.25					
2/3/2021		0.3					
2/4/2021	0.064 (J)						
3/8/2021			1.8				
3/9/2021				1.7	1.1	0.092 (J)	1
3/11/2021	0.05 (J)	0.31					
4/7/2021				1.6		0.093 (J)	1.1
4/8/2021			1.7		1.4		
8/25/2021	0.093 (J)						
8/26/2021		0.38	2	2	0.51	0.081 (J)	1.2
1/11/2022				1.9	0.45	0.045 (J)	1
1/12/2022			1.8				
3/3/2022		0.4		1.8			0.71
3/4/2022	0.06 (J)		2		0.42	0.045 (J)	
6/6/2022				1.9		0.028 (J)	0.43
6/7/2022			2.5		0.37		
Mean	0.107	0.3523	1.967	1.817	0.7083	0.064	0.9067
Std. Dev.	0.04584	0.04608	0.2875	0.1472	0.4325	0.02804	0.2852
Upper Lim.	0.1316	0.377	2.362	2.019	1.325	0.1025	1.298
Lower Lim.	0.08235	0.3275	1.572	1.614	0.2869	0.02548	0.5149

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-25	WGWC-8	WGWC-9
5/19/2016		0.304	1.58
7/20/2016		0.27	2
9/14/2016			1.8
9/15/2016		0.24	
11/14/2016		0.2	
2/6/2017		0.27	
2/9/2017			1.3
3/15/2017		0.25	1.3
4/11/2017			1.4
4/26/2017		0.31	1.5
8/10/2017		0.37	1.6
10/12/2017		0.35	1.5
3/29/2018		0.36	1.4
6/14/2018		0.56	1.4
10/4/2018		0.27	1.4
2/27/2019		0.054 (J)	
2/28/2019			1.4
4/3/2019		0.5	1.3
9/19/2019		0.42	1.3
2/5/2020			1.3
2/7/2020		0.25	
3/19/2020		0.057 (J)	1
9/22/2020		0.14	
9/23/2020			0.82
2/3/2021		0.15	
2/4/2021			0.91
3/8/2021	<0.1		
3/11/2021		0.16	
3/12/2021			0.98
4/8/2021	0.028 (J)		
8/26/2021	0.047 (J)	0.21	1
1/11/2022	0.028 (J)		
3/3/2022		0.19	1
3/4/2022	0.038 (J)		
6/7/2022	<0.1		
Mean	0.04017	0.2675	1.327
Std. Dev.	0.0104	0.127	0.2909
Upper Lim.	0.04596	0.3357	1.483
Lower Lim.	0.02233	0.1993	1.171

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016	<0.001					<0.001	<0.001
5/19/2016		<0.001	<0.001	<0.001			
7/19/2016						<0.001	<0.001
7/20/2016	<0.001	<0.001	<0.001	<0.001			
9/14/2016	<0.001	<0.001	<0.001	0.00055 (J)		<0.001	<0.001
11/10/2016				0.00047 (J)		<0.001	<0.001
11/11/2016	<0.001	<0.001	<0.001				
1/24/2017						<0.001	<0.001
1/27/2017		<0.001	<0.001	<0.001			
2/6/2017	<0.001						
2/8/2017					<0.001		
2/23/2017					<0.001		
3/14/2017						<0.001	
3/15/2017	<0.001	<0.001	<0.001	<0.001			<0.001
3/17/2017					<0.001		
4/11/2017					<0.001		
4/25/2017						<0.001	<0.001
4/26/2017	<0.001	<0.001	<0.001	<0.001	<0.001		
5/17/2017					<0.001		
6/7/2017					<0.001		
7/11/2017					<0.001		
8/9/2017				<0.001		<0.001	<0.001
8/10/2017	<0.001	<0.001	<0.001				
3/29/2018		<0.001	<0.001	<0.001	<0.001		<0.001
3/30/2018	<0.001					<0.001	
2/27/2019	0.00023 (J)	0.00058 (J)	<0.001	0.00068 (J)	<0.001	<0.001	0.00014 (J)
4/3/2019		<0.001	<0.001	0.00047 (J)	<0.001		
4/4/2019	<0.001					<0.001	<0.001
9/18/2019				0.00045 (J)	<0.001	<0.001	<0.001
9/19/2019	0.00041 (J)	<0.001	<0.001				
2/5/2020	0.00016 (J)	<0.001	<0.001	0.00045 (J)	<0.001		
2/7/2020						<0.001	<0.001
3/18/2020	0.00021 (J)	<0.001	<0.001			<0.001	<0.001
3/19/2020				0.0006 (J)	0.00017 (J)		
9/23/2020	0.00013 (J)		<0.001			<0.001	<0.001
9/24/2020		0.00037 (J)		<0.001	0.00018 (J)		
2/3/2021		<0.001	<0.001				
2/4/2021	0.00019 (J)			0.00038 (J)	0.00013 (J)	0.0003 (J)	0.00013 (J)
3/11/2021	0.00032 (J)			0.00075 (J)	0.00031 (J)		<0.001
3/12/2021		0.00038 (J)	<0.001			<0.001	
8/25/2021		0.00023 (J)	<0.001	0.00025 (J)	0.00041 (J)		<0.001
8/26/2021	0.00026 (J)					<0.001	
3/3/2022	0.00025 (J)	<0.001		0.00023 (J)	0.00057 (J)	<0.001	<0.001
3/4/2022			0.00033 (J)				
Mean	0.00064	0.0008716	0.0009647	0.0006989	0.0007774	0.0009632	0.0009089
Std. Dev.	0.000394	0.0002622	0.0001537	0.0002898	0.0003485	0.0001606	0.0002727
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00021	0.00058	0.00033	0.00045	0.00031	0.0003	0.00014

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-22	WGWC-24	WGWC-8	WGWC-9
5/18/2016	<0.001					
5/19/2016					<0.001	<0.001
7/20/2016	<0.001				<0.001	<0.001
9/14/2016	<0.001					<0.001
9/15/2016					<0.001	
11/10/2016	<0.001					
11/11/2016		<0.001				
11/14/2016					<0.001	
1/20/2017	<0.001					
2/6/2017		<0.001			<0.001	
2/9/2017						<0.001
3/14/2017	<0.001					
3/15/2017		<0.001			<0.001	<0.001
4/11/2017		<0.001				<0.001
4/25/2017	<0.001					
4/26/2017		<0.001			<0.001	<0.001
6/7/2017		<0.001				
7/11/2017		<0.001				
8/9/2017	<0.001					
8/10/2017		<0.001			<0.001	<0.001
3/29/2018		<0.001			<0.001	<0.001
3/30/2018	<0.001					
2/26/2019	0.00033 (J)					
2/27/2019					0.00017 (J)	
2/28/2019		<0.001				0.00014 (J)
4/2/2019		<0.001				
4/3/2019					<0.001	<0.001
4/4/2019	<0.001					
9/18/2019	<0.001	<0.001				
9/19/2019					<0.001	<0.001
2/5/2020						<0.001
2/7/2020	<0.001	<0.001			<0.001	
3/18/2020	0.0002 (J)					
3/19/2020					0.00016 (J)	<0.001
5/4/2020		<0.001				
9/22/2020					0.00013 (J)	
9/23/2020	<0.001	<0.001				<0.001
2/3/2021		<0.001			0.00013 (J)	
2/4/2021	<0.001					<0.001
3/11/2021	<0.001	<0.001			<0.001	
3/12/2021						<0.001
8/25/2021	<0.001					
8/26/2021		<0.001	0.00022 (J)	0.0012	0.00014 (J)	<0.001
1/11/2022			0.00023 (J)	0.00082 (J)		
3/3/2022		0.0003 (J)		0.00076 (J)	0.00052 (J)	<0.001
3/4/2022	<0.001		0.00036 (J)			
6/6/2022				0.00047 (J)		
6/7/2022			<0.001			
Mean	0.0009226	0.0009632	0.0004525	0.0008125	0.00075	0.0009547
Std. Dev.	0.0002328	0.0001606	0.0003705	0.0003002	0.0003866	0.0001973
Upper Lim.	0.001	0.001	0.0004239	0.001494	0.001	0.001
Lower Lim.	0.00033	0.0003	0.0001454	0.000131	0.00016	0.00014

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals
 Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16
5/18/2016	0.032					<0.005	<0.005
5/19/2016		<0.005	<0.005	<0.005			
7/19/2016						0.0036 (J)	0.0091
7/20/2016	0.021	<0.005	0.0057	<0.005			
9/14/2016	0.02	<0.005	0.0077	<0.005		<0.005	0.012
11/10/2016				0.0038 (J)		0.0064	0.013
11/11/2016	0.017	<0.005	0.007				
1/24/2017						0.0075	0.011
1/27/2017		<0.005	0.0074	<0.005			
2/6/2017	0.016						
2/8/2017					0.0039 (J)		
2/23/2017					<0.005		
3/14/2017						0.0057	
3/15/2017	0.014	<0.005	0.0077	<0.005			0.01
3/17/2017					<0.005		
4/11/2017					<0.005		
4/25/2017						0.0059	0.0081
4/26/2017	0.011	<0.005	0.0011	<0.005	<0.005		
5/17/2017					0.0033 (J)		
6/7/2017					<0.005		
7/11/2017					<0.005		
8/9/2017				<0.005		0.0068	0.013
8/10/2017	0.011	<0.005	0.0064				
3/29/2018		0.0018 (J)	0.01	0.0022 (J)	0.0025 (J)		0.015
3/30/2018	0.016					0.0077	
6/14/2018	0.0084	0.0011 (J)	0.0062	0.0018 (J)	0.0018 (J)	0.0052	0.009
10/3/2018						0.006	
10/4/2018	0.0085	0.0014 (J)	0.0066	0.0025 (J)	0.0016 (J)		0.012
2/27/2019	0.0068	<0.005	0.0068	<0.005	<0.005	0.0055	0.0075
4/3/2019		<0.005	0.0075	<0.005	0.0015 (J)		
4/4/2019	0.0059					0.0054	0.0077
9/18/2019				<0.005	<0.005	0.0054	0.0056
9/19/2019	0.0075	<0.005	0.0067				
2/5/2020	0.0061	<0.005	0.0063	<0.005	<0.005		
2/7/2020						0.0068	0.0053
3/18/2020	0.0071	<0.005	0.0081			0.0086	0.0057
3/19/2020				<0.005	<0.005		
9/23/2020	0.0054		0.007			0.0071	0.0059
9/24/2020		<0.005		<0.005	<0.005		
2/3/2021		<0.005	0.0075				
2/4/2021	0.0049 (J)			<0.005	<0.005	0.0086	0.0051
3/11/2021	0.0051			0.0037 (J)	0.0035 (J)		0.005
3/12/2021		<0.005	0.0089			0.0096	
8/25/2021		<0.005	0.0061	<0.005	<0.005		0.0046 (J)
8/26/2021	0.0044 (J)					0.0059	
3/3/2022	0.0038 (J)	<0.005		0.0018 (J)	0.0019 (J)	0.0068	0.0041 (J)
3/4/2022			0.0061				
Mean	0.01104	0.00449	0.006752	0.004324	0.004048	0.006405	0.008271
Std. Dev.	0.007155	0.001284	0.001704	0.001185	0.001364	0.001431	0.003324
Upper Lim.	0.01388	0.005	0.0077	0.005	0.005	0.007194	0.0101
Lower Lim.	0.006939	0.0018	0.006118	0.0037	0.0025	0.005615	0.006438

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-23	WGWC-24
5/18/2016	<0.005						
7/20/2016	0.0042 (J)						
9/14/2016	0.0058						
11/10/2016	0.0066						
11/11/2016		0.045					
1/20/2017	0.0044 (J)						
2/6/2017		0.05					
3/14/2017	0.0048 (J)						
3/15/2017		0.052					
4/11/2017		0.048					
4/25/2017	0.0049 (J)						
4/26/2017		0.044					
6/7/2017		0.047					
7/11/2017		0.045					
8/9/2017	0.0067						
8/10/2017		0.056					
3/29/2018		0.072					
3/30/2018	0.0067						
6/14/2018	0.0046 (J)	0.048					
10/4/2018	0.005	0.062					
2/26/2019	0.0063						
2/28/2019		0.045					
4/2/2019		0.052					
4/4/2019	0.0042 (J)						
9/18/2019	0.0047 (J)	0.052					
2/7/2020	0.0045 (J)	0.044					
3/18/2020	0.0054						
5/4/2020		0.049					
9/23/2020	0.0056	0.056					
2/3/2021		0.06					
2/4/2021	0.0047 (J)						
3/8/2021			0.11				
3/9/2021				0.022	0.011	<0.005	0.0084
3/11/2021	0.0049 (J)	0.051					
4/7/2021				0.031		<0.005	0.0077
4/8/2021			0.11		0.0081		
8/25/2021	0.0048 (J)						
8/26/2021		0.057	0.11	0.032	0.011	<0.005	0.0076
1/11/2022				0.038	0.011	<0.005	0.0091
1/12/2022			0.15				
3/3/2022		0.057		0.044			0.0066
3/4/2022	0.0042 (J)		0.14		0.011	0.0015 (J)	
6/6/2022				0.051		0.002 (J)	0.0044 (J)
6/7/2022			0.12		0.0093		
Mean	0.005143	0.052	0.1233	0.03633	0.01023	0.003917	0.0073
Std. Dev.	0.0008286	0.007043	0.01751	0.01029	0.001247	0.001686	0.001649
Upper Lim.	0.005567	0.05589	0.15	0.05047	0.011	0.005	0.009566
Lower Lim.	0.004678	0.04811	0.11	0.0222	0.0081	0.0015	0.005034

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-25	WGWC-8	WGWC-9
5/19/2016		0.0215	0.0335
7/20/2016		0.026	0.024
9/14/2016			0.039
9/15/2016		0.057	
11/14/2016		0.017	
2/6/2017		0.012	
2/9/2017			0.04
3/15/2017		0.014	0.035
4/11/2017			0.034
4/26/2017		0.0091	0.029
8/10/2017		0.013	0.038
3/29/2018		0.018	0.048
6/14/2018		0.015	0.034
10/4/2018		0.013	0.039
2/27/2019		0.014	
2/28/2019			0.037
4/3/2019		0.015	0.035
9/19/2019		0.014	0.036
2/5/2020			0.034
2/7/2020		0.014	
3/19/2020		0.015	0.039
9/22/2020		0.013	
9/23/2020			0.033
2/3/2021		0.014	
2/4/2021			0.035
3/8/2021	0.0046 (J)		
3/11/2021		0.013	
3/12/2021			0.034
4/8/2021	0.0044 (J)		
8/26/2021	0.0044 (J)	0.013	0.03
1/11/2022	0.0043 (J)		
3/3/2022		0.014	0.03
3/4/2022	0.0035 (J)		
6/7/2022	0.004 (J)		
Mean	0.0042	0.01689	0.03507
Std. Dev.	0.000395	0.009837	0.004864
Upper Lim.	0.004743	0.017	0.03775
Lower Lim.	0.003657	0.013	0.03239

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-17
5/18/2016	<0.015					0.0153	0.00526 (J)
5/19/2016		<0.015	<0.015	0.00491 (J)			
7/19/2016						0.0093 (J)	
7/20/2016	<0.015	<0.015	0.00095 (J)	0.0025 (J)			0.0066 (J)
9/14/2016	0.00091 (J)	<0.015	0.0009 (J)	0.0028 (J)		0.012 (J)	0.0081 (J)
11/10/2016				0.0016 (J)		0.0065 (J)	0.0076 (J)
11/11/2016	<0.015	<0.015	<0.015				
1/20/2017							0.0094 (J)
1/24/2017						0.0049 (J)	
1/27/2017		<0.015	<0.015	0.0023 (J)			
2/6/2017	<0.015						
2/8/2017					<0.015		
2/23/2017					<0.015		
3/14/2017						0.0034 (J)	0.0044 (J)
3/15/2017	<0.015	<0.015	<0.015	0.0022 (J)			
3/17/2017					<0.015		
4/11/2017					<0.015		
4/25/2017						0.004 (J)	0.0074 (J)
4/26/2017	<0.015	<0.015	<0.015	0.0019 (J)	<0.015		
5/17/2017					<0.015		
6/7/2017					0.001 (J)		
7/11/2017					<0.015		
8/9/2017				0.0028 (J)		0.0042 (J)	0.0066 (J)
8/10/2017	0.00093 (J)	0.0011 (J)	0.0046 (J)				
3/29/2018		<0.015	<0.015	0.0028 (J)	<0.015		
3/30/2018	<0.015					0.0049 (J)	0.0024 (J)
6/14/2018	<0.015	<0.015	<0.015	0.0018 (J)	<0.015	0.0056 (J)	0.0026 (J)
10/3/2018						0.0041 (J)	
10/4/2018	<0.015	<0.015	<0.015	<0.015	<0.015		0.00085 (J)
2/26/2019							0.0032 (J)
2/27/2019	<0.015	<0.015	0.00063 (J)	0.0019 (J)	<0.015	0.0061	
4/3/2019		<0.015	<0.015	<0.015	<0.015		
4/4/2019	<0.015					0.0039 (J)	0.002 (J)
9/18/2019				0.0021 (J)	<0.015	0.0052	0.0026 (J)
9/19/2019	<0.015	<0.015	0.00073 (J)				
2/5/2020	<0.015	<0.015	<0.015	0.0012 (J)	<0.015		
2/7/2020						0.0024 (J)	0.0025 (J)
3/18/2020	<0.015	<0.015	<0.015			0.002 (J)	0.0024 (J)
3/19/2020				0.0018 (J)	<0.015		
9/23/2020	<0.015		<0.015			0.0031 (J)	0.0027 (J)
9/24/2020		0.0017 (J)		<0.015	<0.015		
2/3/2021		<0.015	<0.015				
2/4/2021	<0.015			0.0012 (J)	<0.015	0.0022 (J)	0.0025 (J)
3/11/2021	<0.015			0.0013 (J)	<0.015		0.0022 (J)
3/12/2021		<0.015	0.00062 (J)			0.0019 (J)	
8/25/2021		<0.015	<0.015	0.00092 (J)	<0.015		0.0022 (J)
8/26/2021	<0.015					0.0029 (J)	
3/3/2022	<0.015	<0.015		0.00094 (J)	<0.015	0.0025 (J)	
3/4/2022			<0.015				0.0021 (J)
Mean	0.01366	0.0137	0.01112	0.003903	0.01433	0.005067	0.004077
Std. Dev.	0.004235	0.004092	0.006342	0.004722	0.003055	0.003399	0.002505
Upper Lim.	0.015	0.015	0.015	0.0028	0.015	0.006357	0.005121

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-17
Lower Lim.	0.00093	0.0017	0.00095	0.0013	0.001	0.003208	0.002568

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-9
5/19/2016					0.00762 (J)
7/20/2016					0.0084 (J)
9/14/2016					0.0071 (J)
11/11/2016	<0.015				
2/6/2017	0.001 (J)				
2/9/2017					0.018
3/15/2017	<0.015				0.0057 (J)
4/11/2017	<0.015				0.0047 (J)
4/26/2017	<0.015				0.004 (J)
6/7/2017	0.0015 (J)				
7/11/2017	<0.015				
8/10/2017	0.0016 (J)				0.0046 (J)
3/29/2018	0.0012 (J)				0.0048 (J)
6/14/2018	0.0014 (J)				0.0046 (J)
10/4/2018	<0.015				0.003 (J)
2/28/2019	0.0013 (J)				0.0053
4/2/2019	<0.015				
4/3/2019					0.0026 (J)
9/18/2019	0.0011 (J)				
9/19/2019					0.0048 (J)
2/5/2020					0.0044 (J)
2/7/2020	0.0014 (J)				
3/19/2020					0.0042 (J)
5/4/2020	0.0013 (J)				
9/23/2020	0.0013 (J)				0.0027 (J)
2/3/2021	0.0013 (J)				
2/4/2021					0.003 (J)
3/11/2021	0.0012 (J)				
3/12/2021					0.003 (J)
8/26/2021	0.0011 (J)	0.00079 (J)	0.044	<0.015	0.0028 (J)
1/11/2022			0.037	<0.015	
1/12/2022		0.00062 (J)			
3/3/2022	0.0013 (J)		0.036		0.0027 (J)
3/4/2022		<0.015		0.00084 (J)	
6/6/2022			0.032		
6/7/2022		<0.015		<0.015	
Mean	0.005857	0.007852	0.03725	0.01146	0.005144
Std. Dev.	0.006626	0.008254	0.004992	0.00708	0.003374
Upper Lim.	0.015	0.015	0.04858	0.015	0.005876
Lower Lim.	0.0012	0.00062	0.02592	0.00084	0.003492

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-14A	WGWC-15	WGWC-16	WGWC-19
5/18/2016	<0.005				<0.005	0.00735	
5/19/2016		<0.005	<0.005				
7/19/2016					<0.005	0.0075	
7/20/2016	<0.005	<0.005	<0.005				
9/14/2016	<0.005	<0.005	<0.005		<0.005	0.0091	
11/10/2016					<0.005	0.0056	
11/11/2016	<0.005	<0.005	<0.005				<0.005
1/24/2017					<0.005	0.012	
1/27/2017		<0.005	<0.005				
2/6/2017	<0.005						<0.005
2/8/2017				<0.005			
2/23/2017				<0.005			
3/14/2017					<0.005		
3/15/2017	<0.005	<0.005	<0.005			0.012	<0.005
3/17/2017				<0.005			
4/11/2017				<0.005			<0.005
4/25/2017					<0.005	0.013	
4/26/2017	<0.005	<0.005	<0.005	<0.005			<0.005
5/17/2017				<0.005			
6/7/2017				<0.005			<0.005
7/11/2017				<0.005			<0.005
8/9/2017					<0.005	0.016	
8/10/2017	0.00031 (J)	0.00049 (J)	0.0021				0.00036 (J)
3/29/2018		<0.005	<0.005	0.0003 (J)		0.016	<0.005
3/30/2018	<0.005				<0.005		
6/14/2018	<0.005	<0.005	<0.005	<0.005	0.0005 (J)	0.012	<0.005
10/3/2018					<0.005		
10/4/2018	<0.005	<0.005	<0.005	<0.005		0.013	<0.005
2/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005	0.0081	
2/28/2019							<0.005
4/2/2019							<0.005
4/3/2019		<0.005	<0.005	<0.005			
4/4/2019	<0.005				<0.005	0.0091	
9/18/2019				<0.005	<0.005	0.0044 (J)	<0.005
9/19/2019	<0.005	<0.005	<0.005				
2/5/2020	<0.005	<0.005	<0.005	<0.005			
2/7/2020					<0.005	0.0036 (J)	<0.005
3/18/2020	<0.005	<0.005	<0.005		<0.005	0.0046 (J)	
3/19/2020				<0.005			
5/4/2020							<0.005
9/23/2020	<0.005		<0.005		<0.005	0.0028 (J)	<0.005
9/24/2020		<0.005		<0.005			
2/3/2021		<0.005	<0.005				<0.005
2/4/2021	<0.005			<0.005	<0.005	0.0023 (J)	
3/11/2021	<0.005			<0.005		0.0023 (J)	<0.005
3/12/2021		<0.005	<0.005		<0.005		
8/25/2021		<0.005	<0.005	<0.005		0.0019 (J)	
8/26/2021	<0.005				<0.005		<0.005
3/3/2022	<0.005	<0.005		<0.005	<0.005	0.0018 (J)	<0.005
3/4/2022			<0.005				
Mean	0.004777	0.004785	0.004862	0.004776	0.004786	0.007831	0.004779
Std. Dev.	0.001023	0.0009842	0.0006328	0.001026	0.000982	0.004721	0.001013

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-14A	WGWC-15	WGWC-16	WGWC-19
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.01044	0.005
Lower Lim.	0.00031	0.00049	0.0021	0.0003	0.0005	0.005226	0.00036

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-20	WGWC-22	WGWC-23	WGWC-24	WGWC-8	WGWC-9
5/19/2016					0.00518	0.00228
7/20/2016					0.0038	0.0016
9/14/2016						0.0024
9/15/2016					0.0034	
11/14/2016					0.0033	
2/6/2017					0.0033	
2/9/2017						0.0023
3/15/2017					0.003	0.0031
4/11/2017						0.0023
4/26/2017					0.0032	0.0019
8/10/2017					0.0031	0.0021
3/29/2018					0.0034	0.0021
6/14/2018					0.0031	0.0025
10/4/2018					0.0033	0.002
2/27/2019					0.0035	
2/28/2019						0.0027
4/3/2019					0.0031	0.0019
9/19/2019					0.0021 (J)	0.0026 (J)
2/5/2020						0.0033 (J)
2/7/2020					0.0048 (J)	
3/19/2020					0.0037 (J)	0.0033 (J)
9/22/2020					0.0039 (J)	
9/23/2020						0.0029 (J)
2/3/2021					0.0036 (J)	
2/4/2021						0.003 (J)
3/11/2021					0.0038 (J)	
3/12/2021						0.0034 (J)
8/26/2021	0.0016 (J)	0.0049 (J)	0.002 (J)	<0.005	0.0037 (J)	0.0028 (J)
1/11/2022		0.0065	0.0024 (J)	<0.005		
1/12/2022	<0.005					
3/3/2022				0.00077 (J)	0.0038 (J)	0.0021 (J)
3/4/2022	0.0014 (J)	0.0072	0.002 (J)			
6/6/2022			0.0018 (J)	<0.005		
6/7/2022	0.0014 (J)	0.0047 (J)				
Mean	0.00235	0.005825	0.00205	0.003942	0.003528	0.002504
Std. Dev.	0.001769	0.00122	0.0002517	0.002115	0.0006299	0.0005195
Upper Lim.	0.005	0.008596	0.002621	0.005	0.003875	0.00279
Lower Lim.	0.0014	0.003054	0.001479	0.00077	0.00318	0.002217

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-14A	WGWC-16	WGWC-19	WGWC-22	WGWC-24
5/18/2016	<0.001			<0.001			
5/19/2016		<0.001					
7/19/2016				8.5E-05 (J)			
7/20/2016	<0.001	<0.001					
9/14/2016	<0.001	<0.001		0.00017 (J)			
11/10/2016				0.00017 (J)			
11/11/2016	<0.001	<0.001			<0.001		
1/24/2017				0.00023 (J)			
1/27/2017		<0.001					
2/6/2017	<0.001				<0.001		
2/8/2017			0.00011 (J)				
2/23/2017			0.00012 (J)				
3/15/2017	<0.001	<0.001		0.00021 (J)	<0.001		
3/17/2017			<0.001				
4/11/2017			<0.001		<0.001		
4/25/2017				0.00024 (J)			
4/26/2017	<0.001	<0.001	<0.001		<0.001		
5/17/2017			<0.001				
6/7/2017			<0.001		<0.001		
7/11/2017			<0.001		<0.001		
8/9/2017				0.0002 (J)			
8/10/2017	<0.001	<0.001			<0.001		
3/29/2018		<0.001	0.0002 (J)	0.00019 (J)	<0.001		
3/30/2018	8.5E-05 (J)						
6/14/2018	<0.001	<0.001	0.00014 (J)	0.00017 (J)	<0.001		
10/4/2018	<0.001	<0.001	0.00013 (J)	0.00015 (J)	<0.001		
2/27/2019	<0.001	<0.001	0.00016 (J)	0.00015 (J)			
2/28/2019					<0.001		
4/2/2019					<0.001		
4/3/2019		<0.001	0.00012 (J)				
4/4/2019	<0.001			9.5E-05 (J)			
9/18/2019			<0.001	<0.001	<0.001		
9/19/2019	<0.001	<0.001					
2/5/2020	<0.001	<0.001	0.00022 (J)				
2/7/2020				<0.001	<0.001		
3/18/2020	<0.001	<0.001		<0.001			
3/19/2020			0.00017 (J)				
5/4/2020					<0.001		
9/23/2020	<0.001			<0.001	<0.001		
9/24/2020		<0.001	<0.001				
2/3/2021		0.00016 (J)			0.00018 (J)		
2/4/2021	<0.001		0.00021 (J)	<0.001			
3/11/2021	<0.001		0.00019 (J)	<0.001	<0.001		
3/12/2021		<0.001					
8/25/2021		<0.001	<0.001	<0.001			
8/26/2021	<0.001				<0.001	<0.001	0.00072 (J)
1/11/2022						<0.001	0.00062 (J)
3/3/2022	<0.001	<0.001	<0.001	<0.001	<0.001		0.0006 (J)
3/4/2022						0.00047 (J)	
6/6/2022							0.00052 (J)
6/7/2022						<0.001	
Mean	0.0009564	0.00096	0.0005605	0.0005267	0.000961	0.0008675	0.000615

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 7/12/2022 9:32 AM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-14A	WGWC-16	WGWC-19	WGWC-22	WGWC-24
Std. Dev.	0.0001997	0.0001833	0.0004303	0.0004215	0.0001789	0.000265	8.226E-05
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001	0.0008018
Lower Lim.	8.5E-05	0.00016	0.00014	0.00017	0.00018	0.00047	0.0004282