Prepared for

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2024 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT WANSLEY ASH POND 1 (AP-1)

Prepared by

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CERTIFICATION STATEMENT

This *2024 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 [CFR] 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, Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.



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August 30, 2024
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SUMMARY

This summary of the *2024 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 2024 (referred to herein as the "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 6[1] 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 and the Site

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. 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 on August 31, 2022. As part of that plan, Georgia Power has elected to close Plant Wansley AP-1 by removal. In March 2023, a permit application for AP-1 closure by removal was submitted to the Georgia Environmental Protection Division (GA EPD).

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 and assessment of corrective measures (ACM) program were established in

[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

January 2018 and October 2022, respectively. During the semiannual reporting period, the Site remained in assessment monitoring as corrective measures are being evaluated.

During the semiannual reporting period, Geosyntec conducted groundwater sampling in February 2024 in support of the assessment monitoring program. Groundwater samples were submitted to Eurofins Environment Testing America (Eurofins) for analysis. Per the federal CCR Rule, groundwater data obtained from the semiannual assessment monitoring event were evaluated in accordance with the certified statistical methods. The evaluation identified statistically significant values of select Appendix III[2] and Appendix IV[3] constituents in excess of established groundwater protection standards (GWPS) in select monitoring wells, as summarized in the table below for the semiannual reporting period.

An Alternate Source Demonstration (ASD)[4] 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, statistically significant levels (SSLs) of Appendix IV constituents were identified for groundwater data collected during the semiannual reporting period that are not addressed by preexisting ASDs. Pursuant to § 257.96, Georgia Power initiated an ACM program on October 27, 2022. An *Assessment of Corrective Measures Report* for AP-1 was submitted to GA EPD on March 24, 2023, 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.

[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] 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).

Appendix III Constituent	February 2024
Boron	WGWC-8, WGWC-9, WGWC-16, WGWC-20, WGWC-21, WGWC-22, WGWC-24, WGWC-25
Calcium	WGWC-8, WGWC-20, WGWC-21
Chloride	WGWC-8, WGWC-16, WGWC-20, WGWC-21, WGWC-24, WGWC-25
Fluoride	WGWC-9, WGWC-15, WGWC-19, WGWC-21
pH	WGWC-24
Sulfate	WGWC-8, WGWC-9, WGWC-16, WGWC-20, WGWC-21, WGWC-22, WGWC-24
Total Dissolved Solids	WGWC-8, WGWC-20, WGWC-21, WGWC-22
Appendix IV Constituent[5]	**February 2024**
Beryllium	WGWC-20, WGWC-24
Cobalt	WGWC-24
Lithium	WGWC-19, WGWC-20

[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.

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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
CSM	conceptual site model
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
Piedmont	Piedmont Physiographic Province
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 *2024 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 2024 (referred to herein as the "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.

Due to statistically significant levels (SSLs) of beryllium and lithium identified in the *2022 Semiannual Groundwater Monitoring and Corrective Action Report* (Geosyntec, 2022), Georgia Power initiated an assessment of correc tive measures (ACM) program for AP-1 in October 2022, within 90 days of SSL notification in accordance with § 257.96. Pursuant to § 257.96(b), Georgia Power continues to monitor groundwater associated with AP-1 in accordance with the assessment monitoring program established for AP-1 in 2018, including semiannual monitoring and reporting pursuant to § 257.90 through § 257.95 of the federal CCR Rule and GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a).

During this semiannual reporting period, SSLs of Appendix IV constituents beryllium, cobalt, and lithium were identified at the Site. Groundwater quality and flow data from the current reporting period indicate that the identified SSLs of beryllium, cobalt, and lithium are horizontally delineated to below their corresponding groundwater protection standards (GWPS) and contained within the property boundary or resolved with a previously submitted alternate source demonstration (ASD) (Geosyntec, 2020, 2021b). The data also confirms vertical delineation of the beryllium and cobalt SSLs. Efforts to evaluate and confirm vertical delineation of lithium to below its respective GWPS are ongoing by Georgia Power.

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. Georgia Power will conduct closure activities in accordance with § 257.102 and corresponding Rule 391-3-4-.10(7)(b). The proposed closure by removal approach provides a source control measure that reduces the potential for migration of CCR constituents to groundwater. Details of the closure approach are provided in the Written Closure Plan, published to Georgia Power's CCR Rule Compliance website.

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 04 – Plant Wansley* (HAR Rev 04) submitted to GA EPD in support of the AP-1 solid waste handling permit (Geosyntec, 2024a).

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, referred to as "detection monitoring wells", were selected based on the characterization of site-specific hydrogeologic conditions.

As part of the assessment monitoring program, assessment monitoring wells have been installed since 2020 to supplement the pre-existing detection monitoring wells and characterize the nature and extent of beryllium, cobalt, and lithium in groundwater downgradient of AP-1. Pursuant to § 257.95(g)(1)(iv), the wells classified as "assessment monitoring wells" will continue to be sampled concurrently with the detection monitoring well network as part of the ongoing assessment groundwater monitoring program.

An on-site network of piezometers is used in combination with the detection and assessment monitoring well networks to gauge groundwater levels to define groundwater flow direction and gradients. The piezometers may be sampled as needed to support the ACM program.

The locations of the detection monitoring wells, assessment monitoring wells, and piezometers 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 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

Two piezometers (PZ-30 and PZ-31) were installed in March 2024. PZ-30 was installed to replace PZ-11 after its abandonment in advance of closure construction activities. PZ-31 was installed south of WGWC-24 to provide additional data on the characterization of groundwater flow in the vicinity of WGWC-24. The locations of the wells are shown on **Figure 2**. A well installation report that includes detailed boring and well construction logs for the installation of these piezometers is provided in **Appendix A** and was submitted to GA EPD under separate cover in August 2024 (Geosyntec, 2024b).

Turbid groundwater was observed in background detection well WGWA-5 during the February 2024 semiannual groundwater sample collection. The well was redeveloped following unsuccessful extended purging, but the turbidity remained high. A video inspection of the well was conducted to evaluate the well condition; it showed the well end cap had separated from the well screen. Due to the well cap separation, it was determined that WGWA-5 should not be used for future groundwater sampling and was reclassified as a piezometer (**Table 1**). It will therefore no longer be sampled during semiannual assessment monitoring events. The background detection well network was determined to be sufficient without WGWA-5; therefore, it will not be replaced at this time.

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 2024, the networks were inspected and corrective actions were not required, as documented in **Appendix B**. As noted above, a video inspection of WGWA-5 was completed following the February 2024 event, and based on observations (**Appendix B**), the well has been reclassified as a piezometer for collection of groundwater elevation measurements only. This documentation was prepared 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 based on statically significant increases (SSIs) of Appendix III constituents documented in the *2017 Annual Groundwater Monitoring and Corrective Action Report* (ERM, 2018). A notice of assessment monitoring was placed in the operating record on May 15, 2018. Currently identified SSLs of Appendix IV constituents exceeding their respective GWPS at AP-1 are beryllium in WGWC-20 and WGWC-24, cobalt in WGWC-24, and lithium in WGWC-19[6] and WGWC-20.

Pursuant to § 257.96, an ACM program was initiated for AP-1 in October 2022. An *Assessment of Corrective Measures Report* (ACM Report) for AP-1 was submitted to GA EPD on March 24, 2023 (Geosyntec, 2023). In accordance with § 257.96(b), groundwater continues to be monitored at AP-1 under the assessment monitoring program while the ACM phase is implemented.

In support of the routine assessment monitoring program, the first 2024 semiannual assessment monitoring event was conducted in February 2024. The wells sampled and the dates the samples were collected at AP-1 during the semiannual reporting period are summarized in **Table 2**. Details of the events and analytical results are discussed in Section 3.

2.3 Additional Groundwater and Surface Water Sampling

Supplemental groundwater samples were collected from the detection monitoring well network during the February 2024 assessment monitoring event and were analyzed for major cations, major anions, iron, manganese, and sulfide. These data were collected in support of evaluating the geochemical composition of the groundwater and interstitial water will be discussed as part of the ACM program. The laboratory reports associated with the data are provided in **Appendix C**.

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 February 2024. The field sampling forms and laboratory report associated with the surface water sampling are provided in **Appendix C**.

[6] The SSL of lithium in WGWC-19 is addressed with the ASD and the ASD Addendum previously submitted to GA EPD (ACC, 2019b; Geosyntec, 2020; Geosyntec, 2021b). Details of the ASD are discussed in Section 5.1.

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 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 during the February 2024 assessment monitoring event and used to calculate the corresponding groundwater elevations, which are presented in **Table 3**. The February 2024 elevations reported 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 2024 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 the exception of a minor component of flow from AP-1 in a localized area near the eastern corner of AP-1. In June, the inward groundwater flow direction observed at WGWC-24 was confirmed by water level measurements collected from PZ-31, as shown on the **Figure 3** inset. This groundwater flow pattern is consistent with previous observations.

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 2024 gauging 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** and the locations of the flow paths used in the calculations and associated potentiometric contour lines are shown on **Figure 3.** For the semiannual reporting period, the calculated average hydraulic gradient between PZ-01 and WGWC-17 is 0.084 feet per foot (ft/ft); the average hydraulic gradient between PZ-10 and WGWC-19 is 0.098 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 $\left(\frac{feet}{day}\right)$

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

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

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 x 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, 2024a). 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 hydraulic gradients discussed above for the February 2024 gauging event, the average calculated groundwater flow velocity for the semiannual reporting period was approximately 0.091 ft/day (PZ-01 to WGWC-17) and 0.106 ft/day (PZ-10 to WGWC-19), for an average groundwater flow velocity in the vicinity of AP-1 of 0.098 ft/day, or approximately 36 ft/year. The observed groundwater flow velocities are generally consistent with historical observations.

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 ± 0.1 standard units (s.u.)
- Conductivity ± 5 %
- ± 0.2 milligrams per liter (mg/L) or ± 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 Savannah, Georgia, following chain-of-custody protocol. The field sampling and equipment calibration forms generated during the 2024 semiannual reporting period are provided in **Appendix C**.

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 and the geochemical parameters analyzed for this project. Analytical methods used for groundwater sample analyses, and associated results, are listed in the analytical laboratory reports included in **Appendix C**. The groundwater analytical results from the semiannual reporting period 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 validated data meet project objectives and the associated data validation reports are provided in **Appendix C** 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 semiannual reporting period. The data were analyzed by Groundwater Stats Consulting (GSC); the report generated from the analyses are provided in **Appendix D**.

4.1 Statistical Methods

Groundwater data from the 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; 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 D** 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**.

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 SSIs. An "initial exceedance" occurs when an Appendix III constituent reported in the groundwater of a downgradient detection 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 detection 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 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.

(1) The maximum contaminant level (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 D**, 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 during the semiannual reporting period:

4.2.1 February 2024 Data

- Beryllium: WGWC-20 and WGWC-24
- Cobalt: WGWC-24
- Lithium: WGWC-19 and WGWC-20

Wells with SSLs were further evaluated using the Sen's Slope/Mann Kendall trend test (**Appendix D**). No statistically significant trends were identified for beryllium, cobalt, or lithium in WGWC-20 or WGWC-24.

4.2.2 Summary of Statistical Analyses

The SSLs identified for the semiannual reporting period are generally consistent with the 2023 annual reporting period.

The lithium SSL in WGWC-19 is addressed with the ASD and the ASD Addendums previously submitted to GA EPD (ACC, 2019b; Geosyntec, 2020; Geosyntec, 2021b), as explained in Section 5 below.

5.0 NATURE AND EXTENT

Based on the groundwater data presented herein, beryllium and lithium SSLs in WGWC-20 have been horizontally delineated by WGWC-27 to below the established GWPS (0.004 mg/L and 0.040 mg/L, respectively) and are contained within the property boundary. Vertical delineation of beryllium in WGWC-20 to below the established GWPS was accomplished by WGWC-28D while vertical delineation of lithium in WGWC-20 is currently ongoing. Horizontal delineation of beryllium and cobalt in WGWC-24 to below the established GWPS is complete as the groundwater flow direction observed at WGWC-24 is inward to AP-1 (confirmed by water level measurements collected from PZ-31 in June 2024, as shown on the **Figure 3** inset). Vertical delineation of beryllium and cobalt in WGWC-24 to below the established GWPS was accomplished by PZ-26D based on February 2024 groundwater data. Georgia Power will continue to monitor the assessment monitoring wells and adaptively manage the Site as new data become available.

5.1 Alternate Source Demonstration

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 WGWC-19[7] 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 Addendums present supplemental data collected since submittal of the 2019 ASD, which provide additional lines of evidence to demonstrate that the SSL of lithium identified at WGWC-19 is associated with naturally occurring lithium within rock formations at the Site.

[7] SSLs of lithium in excess of the prior state GWPS (0.009 mg/L) were previously identified in WGWC-8, WGWC-9, and WGWC-10 and detailed in the submitted ASD and ASD Addendums (ACC, 2019b; Geosyntec, 2020; Geosyntec, 2021b). However, all previously identified SSLs in these three wells have at all times complied with the current GWPS (0.040 mg/L), as established by GA EPD on February 22, 2022.

6.0 MONITORING PROGRAM STATUS

6.1 Assessment Monitoring Status

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 while ACM efforts are implemented to address SSLs of beryllium, cobalt, and lithium in select AP-1 wells. Pursuant to § 257. 95(g)(1)(iv), assessment monitoring wells installed in support of the ACM program will be sampled as part of the ongoing assessment groundwater monitoring program.

6.2 Assessment of Corrective Measures

The ACM efforts completed during this semiannual reporting period are presented in the *Semiannual Remedy Selection and Design Progress Report* provided in **Appendix E.** The semiannual progress report summarizes:

(i) The current conceptual site model (CSM) applicable to evaluating groundwater corrective measures proposed in the ACM Report (Geosyntec, 2023).

(ii) Summary of work completed to date to achieve delineation of constituents exceeding GWPS and a summary of data collected to date to support remedy selection.

(iii) The status of evaluating applicable corrective measures at the Site.

(iv) The planned activities and anticipated schedule for the following semiannual reporting period.

In accordance with § 257.97(a), Georgia Power will include future semiannual progress reports with each groundwater monitoring and corrective action report to document results associated with additional data collection, and present progress toward selection and design of a groundwater remedy.

7.0 CONCLUSIONS AND FUTURE ACTIONS

This *2024 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 the AP-1 well network confirmed the continued presence of SSLs of beryllium in WGWC-20 and WGWC-24, cobalt in WGWC-24, and lithium in WGWC-19 and WGWC-20 above the corresponding GWPS.

Based on the most current data from this reporting period, as described in Section 5, the SSLs of beryllium and lithium in WGWC-20 are horizontally delineated downgradient to below the GWPS. Additionally, the SSL of beryllium in WGWC-20 is vertically delineated to below the GWPS. Evaluation of the vertical delineation of lithium in WGWC-20 is ongoing.

Review of the groundwater flow direction in the vicinity of WGWC-24 indicates groundwater is flowing inward to AP-1 (confirmed by water level data collected from PZ-31 in June 2024), indicating horizontal delineation is complete for beryllium and cobalt in WGWC-24. Groundwater data from PZ-26D also confirms vertical delineation of the beryllium and cobalt SSLs in this well. Georgia Power will continue to monitor the assessment monitoring wells and adaptively manage the Site as new data become available.

The 2018 ASD and 2021 ASD Addendum present multiple lines of evidence that illustrate that the lithium SSL identified in groundwater at WGWC-19 are associated with naturally occurring lithium within rock formations at the Site and are not originating from AP-1.

In accordance with GA EPD Rule 391-3-4-.10(6) and § 257.96, Georgia Power initiated an ACM program for the Site on October 27, 2022. Georgia Power will continue to monitor AP-1 groundwater under the assessment monitoring program as aspects of the ACM program are implemented to address the Appendix IV SSLs. The next routine semiannual assessment monitoring event is scheduled for August 2024.

8.0 REFERENCES

Atlantic Coast Consulting, Inc. (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.

Environmental Resources Management (ERM), 2017. *Statistical Analysis Method Certification – 40 C.F.R. §257.93(f) – Plant Wansley Ash Pond (AP-1) – Georgia Power Company*. October 2017.

ERM, 2018. *2017 Annual Groundwater Monitoring and Corrective Action Report - Plant Wansley Ash Pond*. January 2018.

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. *2022 Semiannual Groundwater Monitoring and Corrective Action Report – Plant Wansley Ash Pond 1 (AP-1).* August 2022.

Geosyntec, 2023. *Assessment of Corrective Measures Report – Plant Wansley Ash Pond 1 (AP-1)*. March 2023.

Geosyntec, 2024a. *Hydrogeologic Assessment Report (Revision 04) – Plant Wansley*. July 2024.

Geosyntec, 2024b. *Well Design, Installation, and Development Report – Plant Wansley Ash Pond 1 (AP-1)*. August 2024.

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)
Detection 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-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	12/04/2014	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	12/08/2014	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	11/04/2015	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-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
PZ-30	Piezometer	3/30/2024	1240592.30	2027321.68	812.43	814.80	787.83	777.83	37.47	10
PZ-31	Piezometer	3/22/2024	1239941.77	2024324.33	807.86	810.90	778.96	768.96	42.44	10
WAMW-1	Piezometer	09/16/2018	1241843.66	2028944.63	780.05	782.66	668.40	658.40	124.60	10
WAMW-2	Piezometer	09/14/2018	1241547.56	2028806.27	768.39	770.82	694.19	684.19	86.92	10
WGWA-5*	Upgradient	12/23/2014	1241997.94	2022368.85	899.28	902.15	888.88	878.88	23.66	10
WGWC-14	Piezometer	11/04/2015	1240621.86	2024584.92	806.87	809.50	764.87	754.87	54.63	10
WGWC-26D	Piezometer	9/26/2022	1243343.66	2029758.85	805.06	808.23	749.31	739.31	68.92	10

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)
Assessment Monitoring Well										
PZ-26D	Assessment	10/12/2020	1239919.45	2024146.35	802.31	804.93	735.23	725.23	80.10	10
WGWC-27	Assessment	9/27/2022	1243215.51	2029878.92	778.05	780.54	749.15	739.15	41.39	10
WGWC-28D	Assessment	8/11/2023	1243337.13	2029751.04	805.36	808.24	609.06	599.06	209.70	10

Notes:
ft = feet
ft BTOC = feet below top of casing
* = PZ-11 was abandoned in May 2024. WGWA-5 was reclassified from a detection monitoring well to a piezometer due to internal well damage.
(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. Survey of WGWC-26D and WGWC-27 was completed by GEL Solutions and certified on October 13, 2022. Survey of WGWC-28D was completed by GEL Solutions and certified September 5, 2023. Survey of PZ-30 and PZ-31 was completed by GEL Solutions and certified on July 1, 2024.
(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	February 13 - 16, 2024	Status of Monitoring Well
	Purpose of Sampling Event:	**Assessment**	
Detection Monitoring Well			
WGWA-1	Upgradient	X	Assessment
WGWA-2	Upgradient	X	Assessment
WGWA-3	Upgradient	X	Assessment
WGWA-4	Upgradient	X	Assessment
WGWA-5*	Upgradient	X	Piezometer
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	Downgradient	X	Assessment
WGWC-21	Downgradient	X	Assessment
WGWC-22	Downgradient	X	Assessment
WGWC-23	Downgradient	X	Assessment
WGWC-24	Downgradient	X	Assessment
WGWC-25	Downgradient	X	Assessment
Assessment Monitoring Well			
PZ-26D	--	X	Assessment
WGWC-27	--	X	Assessment
WGWC-28D	--	X	Assessment

Notes:
-- = Not applicable
* = Although detection well WGWA-5 was sampled as a detection well in February 2024, it has been reclassified as a piezometer due to internal well damage.

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

Well ID	Top of Casing Elevation [1] (ft)	February 12, 2024		June 26, 2024	
		Depth to Water (ft BTOC)	Groundwater Elevation [1] (ft)	Depth to Water (ft BTOC)	Groundwater Elevation [1] (ft)
Detection Monitoring Well					
WGWA-1	782.93	28.80	754.13	NM	NM
WGWA-2	758.23	6.48	751.75	NM	NM
WGWA-3	828.91	1.63	827.28	NM	NM
WGWA-4	834.34	4.63	829.71	NM	NM
WGWA-6	897.13	19.78	877.35	NM	NM
WGWA-7	897.33	31.18	866.15	NM	NM
WGWA-18	878.02	21.67	856.35	NM	NM
WGWC-8	780.08	3.74	776.34	NM	NM
WGWC-9	812.03	20.85	791.18	NM	NM
WGWC-10	812.38	22.35	790.03	NM	NM
WGWC-11	823.96	28.57	795.39	NM	NM
WGWC-12	823.04	27.93	795.11	NM	NM
WGWC-13	809.78	20.32	789.46	NM	NM
WGWC-14A	810.94	22.01	788.93	24.08	786.86
WGWC-15	804.69	18.60	786.09	NM	NM
WGWC-16	804.21	17.37	786.84	19.55	784.66
WGWC-17	816.00	29.40	786.60	NM	NM
WGWC-19	783.42	21.45	761.97	NM	NM
WGWC-20	807.95	29.90	778.05	NM	NM
WGWC-21	834.41	50.65	783.76	NM	NM
WGWC-22	810.37	18.28	792.09	NM	NM
WGWC-23	823.80	33.15	790.65	NM	NM
WGWC-24	804.80	12.93	791.87	17.83	786.97
WGWC-25	808.98	15.05	793.93	18.50	790.48
Piezometer					
PZ-01	856.72	38.8	817.92	NM	NM
PZ-04	889.01	6.03	882.98	NM	NM
PZ-06	915.15	26.7	888.45	NM	NM
PZ-08	867.29	30.92	836.37	NM	NM
PZ-10	832.02	26.3	805.72	NM	NM
PZ-11	823.09	28.44	794.65	NM	NM
PZ-12	818.74	31.96	786.78	NM	NM
PZ-15	826.86	33.08	793.78	29.32	797.54
PZ-16	800.70	11.35	789.35	14.09	786.61
PZ-17	831.01	38.8	792.21	NM	NM
PZ-18	814.51	17.95	796.56	NM	NM
PZ-20	787.30	19.58	767.72	NM	NM
PZ-23D	834.32	50.55	783.77	NM	NM
PZ-27D	809.28	16.46	792.82	NM	NM
PZ-28	816.18	28.75	787.43	NM	NM
PZ-29S	805.30	22.35	782.95	NM	NM
PZ-29D	805.24	25.37	779.87	NM	NM
PZ-30	814.80	NM	NM	NM	NM
PZ-31	810.90	NM	NM	20.28	790.62
WAMW-1	782.66	22.19	760.47	NM	NM
WAMW-2	770.82	14.18	756.64	NM	NM
WGWA-5	902.15	6.18	895.97	NM	NM
WGWC-14	809.50	21.21	788.29	NM	NM
WGWC-26D	808.23	30.96	777.27	NM	NM
Assessment Monitoring Well					
PZ-26D	804.93	12.85	792.08	NM	NM
WGWC-27	780.54	10.80	769.74	NM	NM
WGWC-28D	808.24	32.46	775.78	NM	NM

Notes:
ft = feet
ft BTOC = feet below top of casing
NM = Not Measured
(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. Survey of WGWC-26D and WGWC-27 was completed by GEL Solutions and certified October 13, 2022. Survey of WGWC-28D was completed by GEL Solutions and certified September 5, 2023. Survey of PZ-30 and PZ-31 was completed by GEL Solutions and certified on July 1, 2024.

Table 4

Horizontal Groundwater Gradient and Flow Velocity Calculations

Plant Wansley AP-1, Heard and Carroll Counties, Georgia

	February 12, 2024			
Flow Path Direction [(1)]	**h_1 (ft)**	**h_2 (ft)**	**L (ft)**	**i (ft/ft)**
PZ-01 to WGWC-17	817.92	786.60	373	0.084
PZ-10 to WGWC-19	805.72	761.97	446	0.098

			February 12, 2024		
Flow Path Direction [(1)]	**K_h (ft/day)**	**n_e**	**i (ft/ft)**	**V (ft/day)[(2)]**	**V (ft/day)[(3)]**
PZ-01 to WGWC-17	0.27	0.25	0.084	0.091	0.098
PZ-10 to WGWC-19			0.098	0.106	

Notes:

ft = feet

ft/day = feet per day

ft/ft = feet per foot

h_1, h_2 = 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) Flow path direction relative to the orientation of AP-1 and illustrated on Figure 3 of associated report.

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

(3) 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-5*[4]	WGWA-6	WGWA-7	WGWA-18	WGWC-8
	Sample Date:	2/13/2024	2/13/2024	2/13/2024	2/13/2024	2/16/2024	2/16/2024	2/13/2024	2/13/2024	2/13/2024	2/13/2024
	Constituent [1,2]										
Appendix III	Boron	<0.022	<0.022	<0.022	<0.022	<0.022	< 0.022	<0.022	<0.022	<0.022	3.0
	Calcium	1.3	12	1.7	17	0.92	0.90	27	11	4.6	91
	Chloride	3.5	2.4	1.5	1.1	1.6	--	1.4	1.6	1.7	88
	Fluoride	<0.040	<0.040	<0.040	0.087 J	<0.20	--	0.070 J	<0.040	0.076 J	<0.40
	pH [3]	5.46	5.97	5.52	7.1	5.23	--	7.75	6.19	5.84	5.31
	Sulfate	<0.40	0.64 J	0.68 J	6.2	1.5	--	6.7	0.56 J	5.1	190
	TDS	36	140	34	110	34	--	120	51	43	620
Appendix IV	Antimony	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	< 0.00034	<0.00034	<0.00034	<0.00034	<0.00034
	Arsenic	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	< 0.00086	0.00098 J	0.00097 J	0.00093 J	0.0017
	Barium	0.047	0.025	0.014	0.0062 J	0.014	0.013	0.0076 J	0.0099 J	0.013	0.0014 J
	Beryllium	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	< 0.00020	<0.00020	<0.00020	<0.00020	0.0027
	Cadmium	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	< 0.000078	<0.000078	<0.000078	<0.000078	0.00041 J
	Chromium	<0.0012	<0.0012	0.0015 J	<0.0012	<0.0012	< 0.0012	<0.0012	0.049	<0.0012	<0.0012
	Cobalt	0.00064 J	0.00049 J	<0.00022	<0.00022	0.00059 J	0.00054 J	<0.00022	0.00044 J	0.00063 J	<0.00022
	Fluoride	<0.040	<0.040	<0.040	0.087 J	<0.20	--	0.070 J	<0.040	0.076 J	<0.40
	Lead	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	< 0.00021	<0.00021	<0.00021	<0.00021	<0.00021
	Lithium	0.0049 J	0.0082	<0.0020	0.0061	<0.0020	< 0.0020	0.0054	<0.0020	0.0028 J	0.012
	Mercury	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	< 0.000080	<0.000080	<0.000080	<0.000080	<0.000080
	Molybdenum	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	< 0.00086	<0.00086	0.0012 J	<0.00086	<0.00086
	Comb. Radium 226/228	0.208 U	0.0248 U	-0.146 U	2.21	0.558 U	--	10.8	-0.137 U	0.309 U	2.44
	Selenium	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	< 0.00099	<0.00099	<0.00099	<0.00099	0.0070
	Thallium	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	< 0.00026	<0.00026	<0.00026	<0.00026	<0.00026
Major Ions	Bicarbonate Alkalinity	<5.0	64	11	63	6.2	--	<5.0	37	16	<5.0
	Total Alkalinity	<5.0	64	11	63	6.2	--	<5.0	37	16	<5.0
	Iron	0.020 J	0.034 J	0.035 J	1.0	0.10	--	0.26	0.32	0.11	0.019 J
	Magnesium	1.1	4.4	1.0	2.5	0.60	--	2.1	0.63	1.1	22
	Manganese	0.0084	0.030	<0.0022	0.18	0.0051	--	0.14	0.090	0.079	0.012
	Potassium	1.2	2.6	1.3	2.8	1.1	--	3.1	1.6	2.2	9.2
	Sodium	3.2	9.4	2.7	7.3	1.2	--	5.4	2.6	3.4	35
	Sulfide	<0.81	<0.81	0.81	<0.83	<0.81	--	0.93	1.7	<0.81	<0.81

Notes:
-- = Parameter was not analyzed.
TDS = total dissolved solids
* = WGWA-5 was reclassified from a detection monitoring well to a piezometer due to internal well damage.
<= Indicates the parameter was not detected above the analytical method detection limit (MDL)
J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL)
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, alkalinity was analyzed by SM2320B, sulfide was analyzed by EPA Method 9034, and combined radium by EPA Methods 9315/9320.
(3) The pH value presented was recorded at the time of sample collection in the field.
(4) The sample was filtered at the time of sample collection in the field. The results reported for this sample are for dissolved metals.

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

	Well ID:	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19
	Sample Date:	2/14/2024	2/15/2024	2/16/2024	2/14/2024	2/15/2024	2/15/2024	2/15/2024	2/15/2024	2/15/2024	2/15/2024
	Constituent [1,2]										
Appendix III	Boron	0.56	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	0.74	0.027 J	<0.022
	Calcium	9.1	7.7	1.6	13	3.7	0.66	31	20	6.2	14
	Chloride	3.2	1.8	4.3	2.8	1.3	2.5	1.4	32	1.6	3.5
	Fluoride	0.73	<0.20	<0.20	0.044 J	0.21 J	<0.20	0.89	<0.20	<0.20	0.40
	pH [3]	6.13	6.41	5.6	6.67	6.3	5.18	7.88	5.31	6.16	6.87
	Sulfate	37	3.2	2.1	8.8	4.3	1.2	16	50	5.4	5.7
	TDS	150	53	31	85	84	31	130	150	79	100
Appendix IV	Antimony	0.0063	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034
	Arsenic	<0.00086	<0.00086	<0.00086	0.0010	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086
	Barium	<0.00089	0.034	0.042	0.017	0.037	0.027	0.031	0.045	0.011	0.0012 J
	Beryllium	0.00037 J	<0.00020	<0.00020	<0.00020	<0.00020	0.00026 J	<0.00020	<0.00020	<0.00020	<0.00020
	Cadmium	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078
	Chromium	0.0020	0.0036	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	Cobalt	<0.00022	<0.00022	<0.00022	0.00045 J	<0.00022	0.0017 J	<0.00022	<0.00022	<0.00022	<0.00022
	Fluoride	0.73	<0.20	<0.20	0.044 J	0.21 J	<0.20	0.89	<0.20	<0.20	0.40
	Lead	<0.00021	0.00070 J	<0.00021	<0.00021	<0.00021	0.00029 J	<0.00021	<0.00021	<0.00021	<0.00021
	Lithium	0.026	0.0088	<0.0020	0.0045 J	<0.0020	<0.0020	0.0055	0.0032 J	0.0026 J	0.056
	Mercury	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080
	Molybdenum	0.0033 J	<0.00086	<0.00086	<0.00086	0.0012 J	<0.00086	0.0021 J	<0.00086	0.0023 J	0.0014 J
	Comb. Radium 226/228	0.279 U	0.126 U	-0.00801 U	0.813	0.585	0.482 U	0.607	0.582	0.257 U	0.523
	Selenium	0.0022 J	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099
	Thallium	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026
Major Ions	Bicarbonate Alkalinity	37	34	12	48	33	12	100	10	48	93
	Total Alkalinity	37	34	12	48	33	12	100	10	48	93
	Iron	0.023 J	<0.012	<0.012	1.8	0.056	0.012 J	0.016 J	0.023 J	0.086	0.079
	Magnesium	2.4	1.7	1.2	2.8	0.51	0.67	4.9	6.4	3.5	10
	Manganese	0.013	0.015	0.0083	0.016	<0.0022	0.041	0.54	0.011	0.0078	0.013
	Potassium	1.4	1.9	1.3	2.1	1.7	1.7	1.6	2.5	1.7	1.5
	Sodium	21	3.6	3.1	5.6	9.3	3.6	9.0	9.8	8.4	7.9
	Sulfide	<0.81	<0.81	<0.89	<0.81	<0.86	<0.81	<0.89	<0.81	<0.83	<0.83

Notes:
-- = Parameter was not analyzed.
TDS = total dissolved solids
* = WGWA-5 was reclassified from a detection monitoring well to a piezometer due to internal well damage.
<= Indicates the parameter was not detected above the analytical method detection limit (MDL)
J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL)
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, alkalinity was analyzed by SM2320B, sulfide was analyzed by EPA Method 9034, and combined radium by EPA Methods 9315/9320.
(3) The pH value presented was recorded at the time of sample collection in the field.
(4) The sample was filtered at the time of sample collection in the field. The results reported for this sample are for dissolved metals.

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

	Well ID:	WGWC-20	WGWC-21	WGWC-22	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-28D	PZ-26D
	Sample Date:	2/13/2024	2/15/2024	2/14/2024	2/15/2024	2/14/2024	2/15/2024	2/15/2024	2/14/2024	2/15/2024
	Constituent [1,2]									
Appendix III	Boron	5.6	0.14	0.33	<0.022	1.0	0.29	0.26	9.3	0.072 J
	Calcium	210	73	21	2.5	24	29	22	390	15
	Chloride	230	59	4.1	3.5	22	12	29	520	14
	Fluoride	<1.0	2.2	0.23	<0.20	<0.20	<0.20	1.2	<2.0	0.29 J
	pH [3]	5.34	6.7	5.84	5.62	4.72	6.24	6.23	6.47	6.48
	Sulfate	280	420	64	8.7	55	21	37	300	36
	TDS	1200	740	210	76	180	130	170	1700	160
Appendix IV	Antimony	0.00044 J	<0.00034	0.00076 J	<0.00034	<0.00034	<0.00034	0.00056 J	<0.00034	<0.00034
	Arsenic	0.0010	<0.00086	0.0011	<0.00086	0.0012	0.00096 J	<0.00086	0.0022	<0.00086
	Barium	<0.00089	0.0064 J	0.041	0.0050 J	0.052	0.14	0.0040 J	0.017	0.021
	Beryllium	0.012	0.00021 J	0.00044 J	0.0013 J	0.0065	<0.00020	0.0012 J	0.0019 J	<0.00020
	Cadmium	0.00042 J	<0.000078	0.00013 J	<0.000078	0.00023 J	<0.000078	<0.000078	<0.000078	<0.000078
	Chromium	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	Cobalt	<0.00022	<0.00022	<0.00022	<0.00022	0.045	0.0062	0.0018 J	0.00064 J	0.0069
	Fluoride	<1.0	2.2	0.23	<0.20	<0.20	<0.20	1.2	<2.0	0.29 J
	Lead	<0.00021	<0.00021	<0.00021	<0.00021	0.00037 J	<0.00021	<0.00021	0.00022 J	<0.00021
	Lithium	0.15	0.074	0.0028 J	0.0044 J	0.0044 J	0.0063	0.038	0.21	0.031
	Mercury	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080
	Molybdenum	<0.00086	0.023	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	0.0094 J	0.0024 J
	Comb. Radium 226/228	1.06	1.30	5.46	0.232 U	0.674	0.672	5.82	13.3	1.06
	Selenium	0.0035 J	<0.00099	0.0041 J	0.0030 J	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099
	Thallium	<0.00026	<0.00026	<0.00026	<0.00026	0.00033 J	<0.00026	<0.00026	<0.00026	<0.00026
Major Ions	Bicarbonate Alkalinity	9.9	110	51	25	<5.0	94	33	43	61
	Total Alkalinity	9.9	110	51	25	<5.0	94	33	43	61
	Iron	<0.012	0.27	0.053	<0.012	0.012 J	4.0	0.87	2.7	1.5
	Magnesium	43	8.9	4.6	0.45 J	5.4	6.0	3.4	64	3.0
	Manganese	0.46	0.069	0.046	0.0032 J	1.6	1.1	0.37	0.71	0.13
	Potassium	6.3	3.3	12	2.3	7.5	6.3	2.0	24	1.8
	Sodium	47	190	21	13	9.1	7.7	15	77	26
	Sulfide	<0.81	0.99	<0.81	<0.86	<0.81	<0.86	1.2	0.88	<0.83

Notes:
-- = Parameter was not analyzed.
TDS = total dissolved solids
* = WGWA-5 was reclassified from a detection monitoring well to a piezometer due to internal well damage.
<= Indicates the parameter was not detected above the analytical method detection limit (MDL)
J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL)
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, alkalinity was analyzed by SM2320B, sulfide was analyzed by EPA Method 9034, and combined radium by EPA Methods 9315/9320.
(3) The pH value presented was recorded at the time of sample collection in the field.
(4) The sample was filtered at the time of sample collection in the field. The results reported for this sample are for dissolved metals.

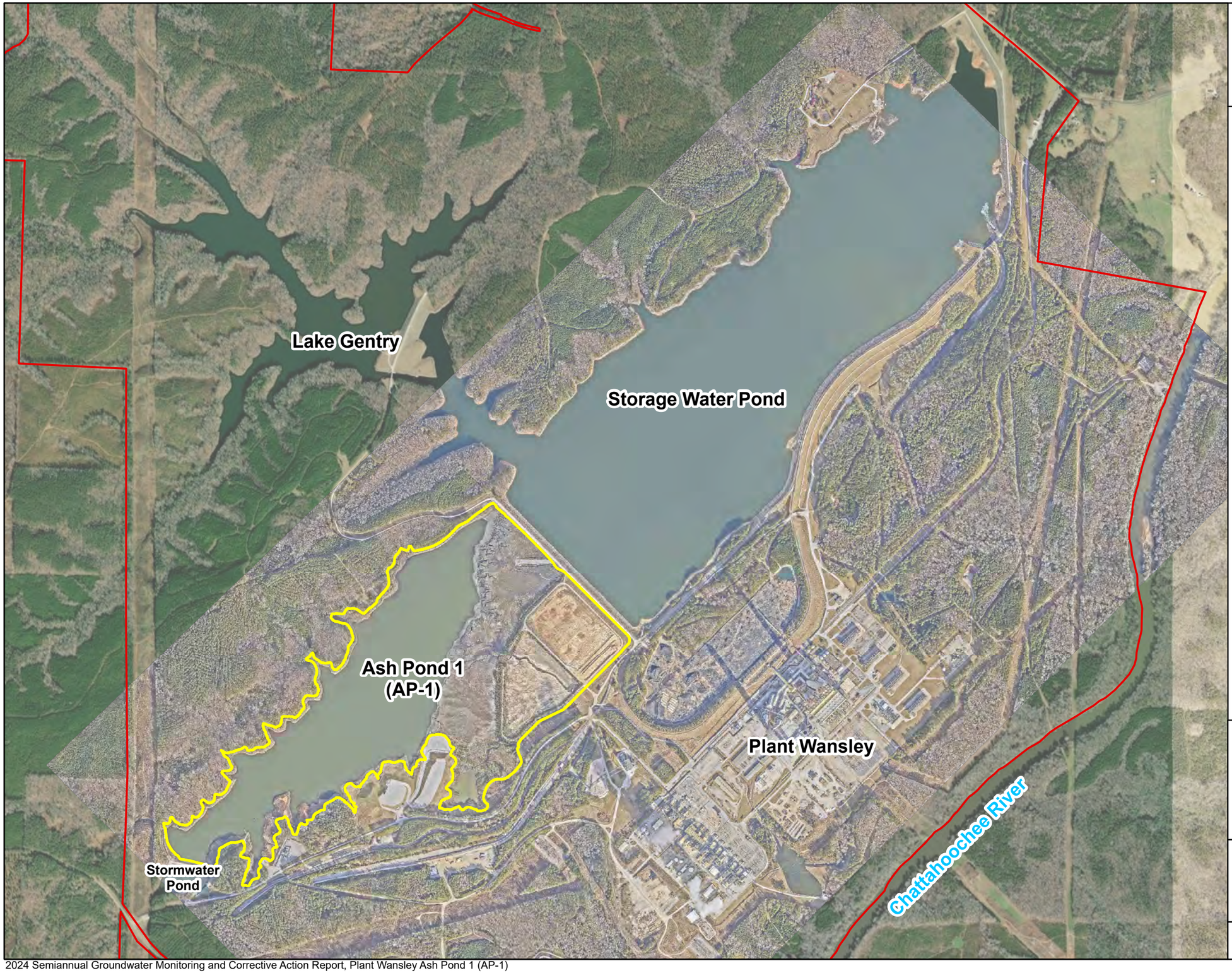
Table 6

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	0.0060	N/A	0.0022	0.0060
Arsenic	mg/L	0.010	N/A	0.0014	0.010
Barium	mg/L	2.0	N/A	0.062	2.0
Beryllium	mg/L	0.0040	N/A	0.0025	0.0040
Cadmium	mg/L	0.0050	N/A	0.0025	0.0050
Chromium	mg/L	0.10	N/A	0.0063	0.10
Cobalt	mg/L	N/A	0.006	0.013	0.013
Fluoride	mg/L	4.0	N/A	0.28	4.0
Lead	mg/L	N/A	0.015	0.001	0.015
Lithium	mg/L	N/A	0.04	0.0090	0.040
Mercury	mg/L	0.0020	N/A	0.00020	0.0020
Molybdenum	mg/L	N/A	0.10	0.015	0.10
Selenium	mg/L	0.050	N/A	0.0050	0.050
Thallium	mg/L	0.0020	N/A	0.0010	0.0020
Combined Radium-226/228	pCi/L	5.0	N/A	11.4	11.4

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



N

Legend

Approximate Property Boundary

Approximate AP-1 Boundary



Notes:
1. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, January 30, 2024.
2. Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community.

0 700 1,400 2,800

SCALE IN FEET

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 2024

FIGURE 1



N

Legend

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Approximate AP-1 Boundary

Notes:
1. Assessment monitoring wells installed October 2020 (PZ-26D), September 2022 (WGWC-27), and August 2023 (WGWC-28D). Piezometers installed March 2024 (PZ-30, PZ-31).
2. WGWA-5 was reclassified from a detection well to a piezometer due to internal well damage, following the semiannual monitoring event.
3. PZ-11 was abandoned in March 2024, following the semiannual monitoring event.
4. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, January 30, 2024.
5. Service Layer Credits: Source: ESRI_World_Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community.

0 400 800 1,600
SCALE IN FEET

GROUNDWATER MONITORING WELL NETWORK MAP

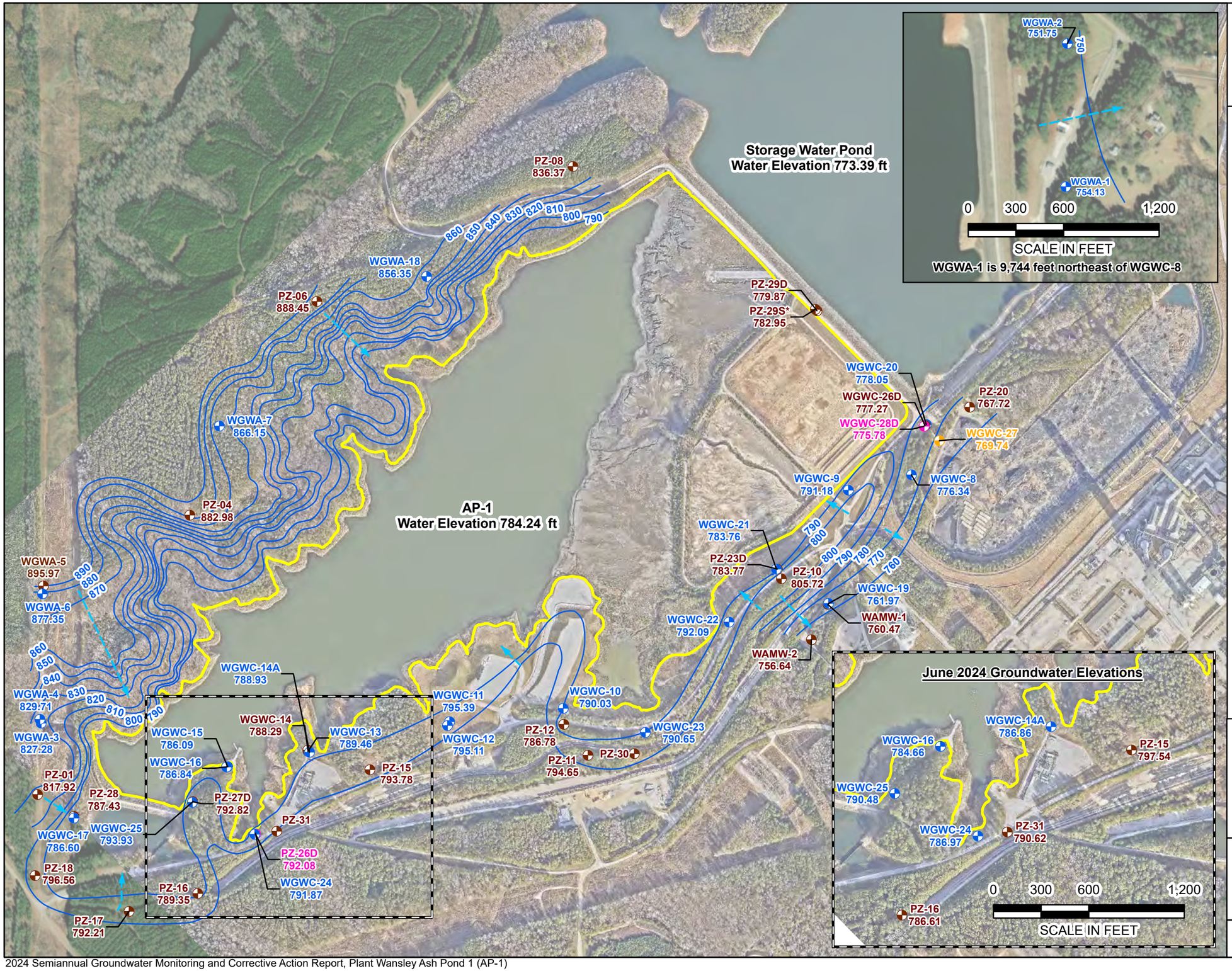
GEORGIA POWER COMPANY
PLANT WANSLEY AP-1
HEARD AND CARROLL COUNTIES, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | AUGUST 2024

FIGURE 2



Legend

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Groundwater Elevation Iso-Contour
- Approximate Groundwater Flow Direction
- Approximate AP-1 Boundary

ADRIA LEE REIMER
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No.PG002004

Notes:
1. Water level elevation recorded on February 12, 2024, and on June 26, 2024 in the vicinity of WGWC-24 on the inset map. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
2. * indicates piezometer PZ-29S is installed within the dike materials and may not be representative of actual groundwater conditions.
3. PZ-11 was abandoned in March 2024, following the semiannual monitoring event.
4. WGWA-5 was reclassified from a detection well to a piezometer due to internal well damage, following the semiannual monitoring event.
5. PZ-30 and PZ-31 were installed March 2024, following the semiannual monitoring event. In June 2024, a subset of groundwater level elevations were collected at WGWC-24 and surrounding wells and piezometers, including PZ-31, to evaluate groundwater flow direction.
6. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, January 30, 2024.
7. Service Layer Credits: Source: ESRI_World_Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community.

0 400 800 1,600
SCALE IN FEET

POTENTIOMETRIC SURFACE CONTOUR MAP - FEBRUARY 2024

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

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | AUGUST 2024

FIGURE 3

APPENDIX A

Well Design, Installation, and Development Report, Plant Wansley Ash Pond 1 (AP-1)

Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

WELL DESIGN, INSTALLATION, DEVELOPMENT, AND ABANDONMENT REPORT

PLANT WANSLEY ASH POND 1 (AP-1)

Prepared by

Geosyntec consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW7327B

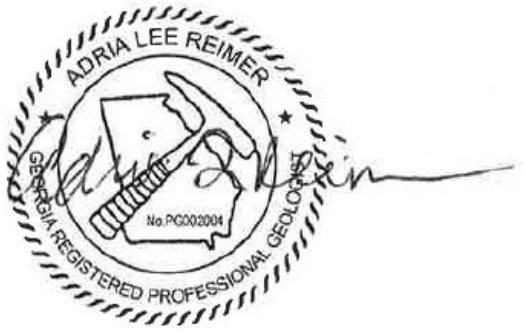
August 2024

Georgia Power

CERTIFICATION PAGE

I hereby certify that this *Well Design, Installation, Development, and Abandonment Report – Plant Wansley AP-1* has been prepared by, or under the direct supervision of, a Qualified Groundwater Scientist with Geosyntec Consultants and is in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule [40 Code of Federal Regulations 257 Subpart D], specifically §257.91(e)(1), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10.

According to 391-3-4-.01, a Qualified Groundwater Scientist is "a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action."



Date: August 30, 2024
Adria Reimer, P.G.
Georgia Professional Geologist No. 2004
Principal Geologist
Geosyntec Consultants

Geosyntec
consultants

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Appendix B Boring and Well Construction Logs
Appendix C Well Development and Equipment Calibration Forms
Appendix D Certified Well Survey Data
Appendix E Well Abandonment Logs

LIST OF ACRONYMS

AP	Ash Pond
ACC	Atlantic Coast Consulting
ASTM	American Society for Testing and Materials
CCR	coal combustion residuals
CFR	Code of Federal Regulations
DO	dissolved oxygen
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
NAD	North America Datum
NAVD	North American Vertical Datum
NSF	National Sanitation Foundation
ORP	oxygen reduction potential
PVC	polyvinyl chloride
TOC	top of casing
US EPA	United States Environmental Protection Agency

1. INTRODUCTION

This report provides details regarding the design, installation, and development of two (2) piezometers[1] (PZ-30 and PZ-31) and the abandonment of two (2) piezometers (PZ-11 and PB-7) at Georgia Power Company (Georgia Power) Plant Wansley (Site) Ash Pond 1 (AP-1). PZ-11 and PB-7 were abandoned in advance of closure construction activities. PZ-30 was installed to replace PZ-11, a piezometer used to measure the potentiometric surface south of AP-1. PB-7 was originally installed to evaluate lithology, therefore a replacement for this location was not needed. PZ-31 was installed east of WGWC-24 to provide additional data on the characterization of groundwater flow in the vicinity of WGWC-24.

The well installations were completed to meet the requirements promulgated in the United States Environmental Protection Agency (US EPA) coal combustion residual (CCR) rule [40 Code of Federal Regulations (CFR) Part 257, Subpart D], specifically 40 CFR §257.91(e)(1) and Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10.

Plant Wansley is located in Heard and Carroll counties near Carrollton, Georgia. The current groundwater monitoring system at AP-1 includes a network of detection monitoring wells, assessment monitoring wells, and piezometers. The locations of the new piezometers, abandoned piezometers, and other existing wells and piezometers, are shown on **Figure 1**.

[1] For the purposes of this report, unless otherwise specified, the term "well" will be used interchangeably with "piezometer".

2. DRILLING AND WELL INSTALLATION

Well installation and development activities were performed according to accepted industry standards and following guidelines within the *Manual for Groundwater Monitoring* (GA EPD, 1991). Well drilling, installation, and surface completion activities were performed by Cascade Drilling, Inc. of Aiken, South Carolina and Cascade Drilling, Inc. of Ocala Florida. In accordance with the Georgia Water Well Standards Act, the driller was required to have an insurance bond on file with the State of Georgia at the time of drilling. A copy of this bond is provided in **Appendix A**. A professional geologist employed with Geosyntec Consultants (Geosyntec) and registered to practice in the State of Georgia documented the drilling and installation efforts to record observations, soil and rock descriptions, subsurface stratigraphy, groundwater elevations, and other field activities.

PZ-30 and PZ-31 were installed and completed in March 2024. The locations of the wells are shown on **Figure 1**. Well construction details are provided in **Table 1** and the boring and well construction logs are included in **Appendix B**.

2.1 Drilling Method

The boreholes were advanced using rotasonic drilling techniques with continuous core collection. A track mounted Terra Sonic 150 drill rig was used to install the wells, using a nominal 6-inch outer drill casing and a 4-inch diameter core barrel. Care was taken so that the drilling methods did not introduce contamination of the groundwater from surface activities.

2.2 Screened Interval

Details regarding the piezometer screened intervals are provided in **Table 1**. PZ-30 is screened from approximately 787.83 to 777.83 feet elevation and PZ-31 is screened from approximately 778.96 to 768.96 feet elevation [referenced to the North American Vertical Datum of 1988 (NAVD 88)]. The piezometers are constructed with a 10-foot well screen segment.

2.3 Well Casings and Screens

The piezometers were constructed of 2-inch inner diameter Schedule 40 polyvinyl chloride (PVC) casing with flush-threaded fittings. The wells were installed with a 10-foot nominal length U-Pack® dual-wall well screen with 0.010-inch slots. The casings

and screens arrived pre-cleaned and packaged by the manufacturer. The U-Pack well screens were constructed onsite by packing sand between slotted PVC and the well screens. Well construction materials are sufficiently durable to resist chemical and physical degradation and do not interfere with the quality of groundwater samples. Casings and screens are flush-threaded. Solvent or glue was not used to construct the wells. The wells were completed with a 6-inch-long PVC sump attached to the bottom of the screen. The PVC products used were American Society for Testing and Materials (ASTM) and National Sanitation Foundation (NSF) rated. Details regarding well screened intervals are provided in **Table 1**.

2.4 Well Intake Design

The wells were designed and constructed to: (1) allow sufficient groundwater flow to the well for gauging and, if applicable, sampling; (2) minimize the passage of formation materials (turbidity) into the well; and (3) ensure sufficient structural integrity to prevent collapse of the well. The annular space between the face of the formation and the screen was filled to minimize passage of formation materials into the well. A filter pack of clean, well-rounded, quartz sand was installed in the wells. The 0.01-inch slot size was selected to minimize the inflow of formation material without impairing influent groundwater flow.

2.5 Filter Pack

Highly Pure Quartzite manufactured by Filtersil was used as the filter pack material for the piezometers. The filter pack material meets the ASTM D5092 uniformity coefficient specification of 2.5 or less, with a uniformity coefficient of 1.78.

Filter pack material was placed within the U-Pack well screens and in the annular space between the outside of the screen and the borehole wall to ensure an adequate thickness of filter pack material between the well and the formation. Placement of the filter pack between the borehole wall and PVC was placed via gravity-pouring. Filter pack material placed in the annular space outside of the screen extended a minimum of two (2) feet above the top of screen. No bridging occurred during filter pack placement.

Upon placement of the filter pack, each well was pumped with a submersible pump to ensure settlement of the filter pack. The top of filter pack depth was measured following pumping to confirm appropriate extension of filter sand above the screen. The depth of top of filter pack was measured and recorded on the well construction logs provided in **Appendix B**.

2.6 Annular Seal

A minimum of two feet of bentonite chips (Pel-Plug time-release-coated 3/8-inch bentonite pellets) were placed immediately above the filter pack by gravity-pouring into the annular space and hydrated per manufacturer's specifications. A tremie pipe was used to probe the annular space to ensure that no bridging occurred.

The annulus above the bentonite seal was grouted with AQUAGUARD® bentonite grout placed via tremie pipe (initial grouting) and direct pour methods (for topping off) from the top of the bentonite seal. During grouting, care was taken to assure that the bentonite seal was not disturbed by locating the base of the tremie pipe approximately 2 feet above the bentonite seal and injecting grout at low pressure/velocity. A cement apron 4-feet by 4-feet by 4-inches was poured around each well. The pads were mounded slightly outward to direct surface drainage away from the wells.

2.7 Cap and Protective Casing

Well risers were fitted with a locking cap and a lockable cover. A one-quarter inch vent hole was drilled into the PVC riser pipe to provide an avenue for the escape of gas. The protective cap guards the casing from damage and the locking cap serves as a security device to prevent well tampering. Bollards were installed around the four corners of the concrete pad to protect the wells.

A weep hole was drilled in the outer protective casing near the bottom above the concrete pad. Pea gravel was placed inside the protective casing between the riser pipe and the outer casing. The wells were clearly marked with the proper well identification number on the stand-up casing.

3. WELL DEVELOPMENT

Piezometers were developed by Atlantic Coast Consulting (ACC) using a combination of surging and pumping to (i) restore the natural hydraulic conductivity of the formation, and (ii) to remove fine-grained sediment to ensure low-turbidity groundwater samples. The piezometers were alternately surged and purged until visually clear of particulates. Turbidity, pH, temperature, specific conductivity, oxidation-reduction potential (ORP), and dissolved oxygen (DO) measurements were recorded to ensure that the well was fully developed, and field parameters were stabilized. The development field forms provided by ACC are included in **Appendix C**.

4. SURVEY

Upon completion of the well installation, horizontal locations and vertical elevations were surveyed by GEL Solutions, a Georgia-licensed surveyor and certified on July 1, 2024. The top of the PVC casing [top of casing (TOC) elevation] and the survey pin installed at the well pads was surveyed to within 0.5-foot horizontal accuracy and to 0.01-foot vertical accuracy. The horizontal location (i.e., northing and easting) was recorded in feet relative to the North America Datum of 1983 (NAD) with the vertical elevation recorded in feet relative to the North American Vertical Datum of 1988. Certified survey data is provided in the well construction table (**Table 1**). A copy of the certified survey data for the new AP-1 piezometers is provided in **Appendix D**.

5. WELL ABANDONMENT

A total of two (2) piezometers (PZ-11 and PB-7) were abandoned by Cascade Drilling, Inc. of Aiken, South Carolina on March 19, 2024. The work was completed under the direction and supervision of a Geosyntec professional geologist licensed in the State of Georgia.

The locations of the abandoned piezometers are presented on **Figure 1**. Piezometer construction and abandonment details are presented in **Table 2**. All piezometers were constructed of 2-inch diameter PVC well screen and riser installed in a 6-inch diameter borehole. PZ-11 was screened in saprolite/bedrock and PB-7 was screened in saprolite. Water level and total piezometer depths were measured and recorded to calculate the estimated volumes of grout needed before initiating abandonment procedures for a given piezometer.

Abandonment consisted of tremie grouting the PVC screen and riser pipe in place, over-drilling the top 10 feet of the original borehole, and either grouting to ground surface (PB-7), or grouting to three feet below ground surface and placing bentonite chips to ground surface (PZ-11). During the over-drilling, the grouted PVC casing was extracted as part of the drill cuttings.

Over-drilling was performed using a Terra Sonic 150 track-mounted rig, using sonic drilling techniques. Tremie grouting was conducted by pumping a non-shrinking cement/bentonite grout slurry through the end of a PVC tremie pipe placed at the bottom of the piezometer/borehole, which was raised as the grout slurry level rose to the ground surface/target elevation. The volume of grout material used as well as the anticipated (calculated) volume is shown in **Table 2**. If grout loss occurred, locations were topped off or brought back to the correct target elevation. Once the cement/bentonite grout was cured, if applicable, bentonite chips were placed in the borehole by gravity-pouring to ground surface. A tremie pipe was used to probe the borehole to ensure that no bridging occurred.

Piezometer abandonment forms are provided in **Attachment E**.

6. REFERENCES

Georgia Environmental Protection Division (GA EPD), Georgia Department of Natural Resources, 1991. *Manual for Groundwater Monitoring*. September 1991.

United States Environmental Protection Agency. 2015a. Federal Register. Volume 80. No. 74. Friday April 17, 2015. Part II. Environmental Protection Agency. 40 CFR Parts 257 and 261. Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule. [EPA-HQ-RCRA–2009–0640; FRL–9919–44–OSWER]. RIN–2050–AE81, April 2015

TABLES

Table 1
Summary of Well Construction Details
Plant Wansley AP-1
Heard and Carroll Counties, Georgia

Well ID	Location	Installation Date	Northing [1]	Easting [1]	Ground Surface Elevation [2] (ft NAVD88)	Top of Casing Elevation (ft NAVD88)	Top of Screen Elevation (ft NAVD88)	Bottom of Screen Elevation (ft NAVD88)	Well Depth (ft bgs) [3]
PZ-30	Downgradient	3/20/2024	1240592.30	2027321.68	812.43	814.80	787.83	777.83	35.1
PZ-31	Downgradient	3/22/2024	1239941.77	2024324.33	807.86	810.90	778.96	768.96	39.4

Notes:
AP = ash pond
ID = identification
ft = feet
bgs = below ground surface
(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Survey was completed by GEL Solutions and certified July 1, 2024.
(2) Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Ground surface elevation defined at the survey nail installed within the well pad.
(3) Total well depth accounts for 6-inch sump.

Table 2
Summary of Well Abandonment Details
Plant Wansley AP-1
Heard and Carroll Counties, Georgia

Well ID	Installation Date	Northing [1]	Easting [1]	Ground Surface Elevation [2] (ft)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Total Depth (ft bgs)	Top of Casing Elevation [2] (ft)	Top of Screen Elevation [2] (ft)	Bottom of Screen Elevation [2] (ft)
PZ-11	12/5/2014	1240578.87	2026933.09	820.21	20.50	30.50	30.90	823.09	799.71	789.71
PB-7	4/12/2017	1240837.08	2026768.14	816.51	75.00	85.00	85.00	819.58	741.51	731.51

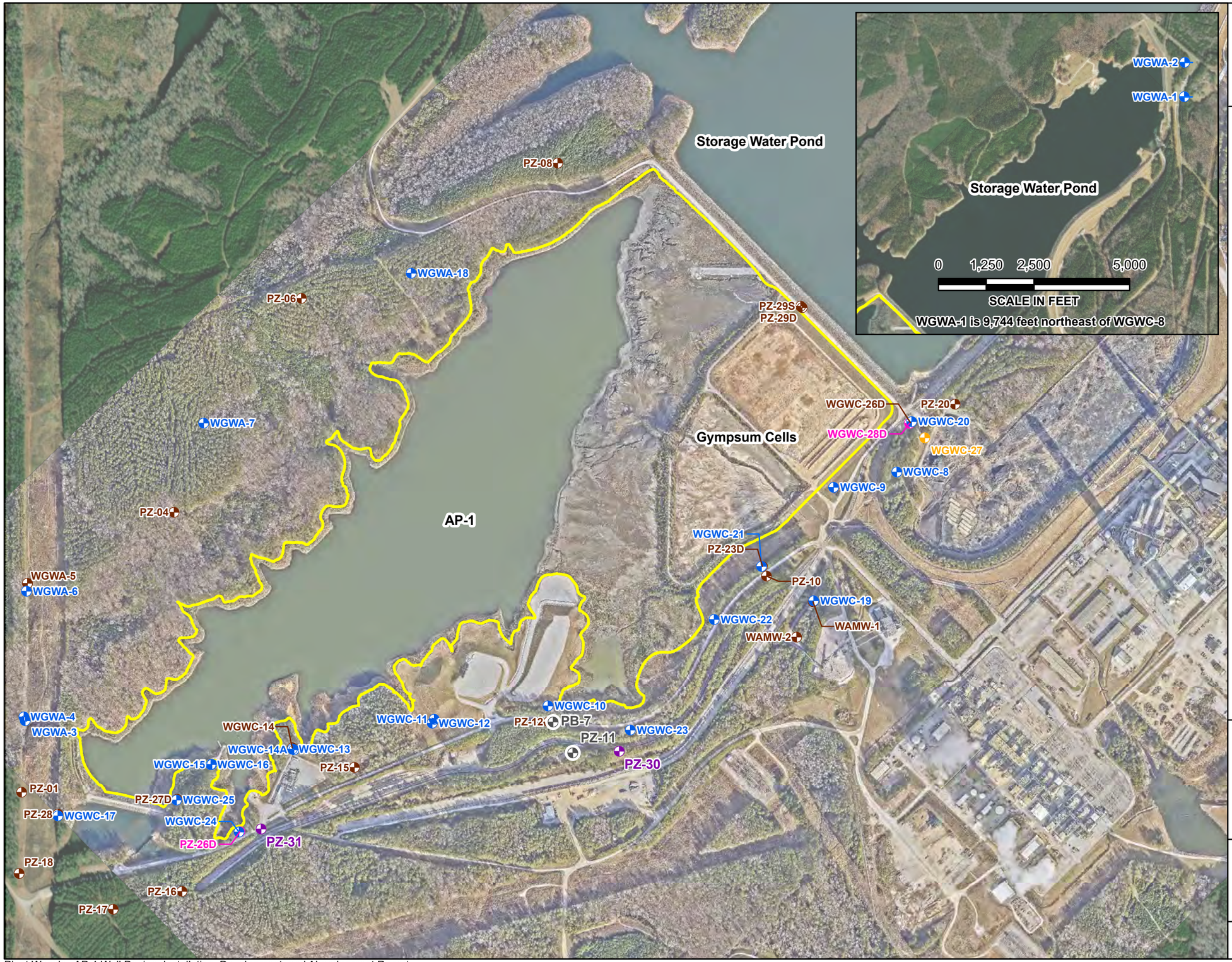
Notes:
ID = identification
ft = feet
ft bgs = feet below ground surface
ft BTOC = feet below top of casing
gal = US liquid gallon
PVC = polyvinyl chloride
(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet.
(2) Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Ground surface elevation defined at the survey nail installed within the well pad.
(3) PZ-11 total well depth accounts for 4-inch sump.

Table 2
Summary of Well Abandonment Details
Plant Wansley AP-1
Heard and Carroll Counties, Georgia

Well ID	Screen Interval Length	Well Depth (ft BTOC)[3]	Depth to Water (ft BTOC)[3]	Abandonment Date	Estimated PVC Grout Volume (gal)	Actual PVC Grout Volume (gal)	Estimated Open Hole Grout Volume [4] (gal)	Actual Open Hole Grout Volume (gal)
PZ-11	10	33.78	22.23	3/19/2024	5.5	7.0	14.5	15.0
PB-7	10	88.07	31.70	3/19/2024	14.0	18.0	14.5	16.0

Notes:
ID = identification
ft = feet
ft bgs = feet below ground surface
ft BTOC = feet below top of casing
gal = US liquid gallon
PVC = polyvinyl chloride
(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet.
(2) Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Ground surface elevation defined at the survey nail installed within the well pad.
(3) PZ-11 total well depth accounts for 4-inch sump.

FIGURES



N

Legend

- Newly Installed Piezometer
- Abandoned Piezometer
- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Approximate AP-1 Boundary

Notes:
1. Piezometer PZ-30 and PZ-31 were installed in March 2024.
2. PB-7 and PZ-11 were abandoned in March 2024.
3. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, January 30, 2024.
4. Service Layer Credits: Source: ESRI_World_Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community.

0 400 800 1,600

SCALE IN FEET

AP-1 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 2024

FIGURE 1

APPENDIX A

Well Driller Performance Bonds

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company , Surety upon

a certain Bond No. 800033976

dated effective September 27, 2017
(MONTH-DAY-YEAR)

on behalf of Ricky Davis / Cascade Drilling, L.P.
(PRINCIPAL)

and in favor of Department of Natural Resources, State of Georgia
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2023
(MONTH-DAY-YEAR)

and ending on June 30, 2025
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and 00/100 Dollars ($30,000.00)

Description of bond Performance Bond for Water Well Contractors

Premium:

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on April 13, 2023
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By _____
ATTORNEY-IN-FACT Carlos A. Albelo

intact INSURANCE

Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Megan Sivley, Melissa Haddick, Sandra Parker, Orlando Aguirre, Stacy Killebrew, Carlos A. Albelo**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this first day of January, 2023.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

By _____
Sarah A. Kolar, General Counsel

STATE OF MINNESOTA
HENNEPIN COUNTY

On this first day of January, 2023, before me personally came Sarah A. Kolar, General Counsel of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and she acknowledged the execution of the same, and being by me duly sworn, that she is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.

ALISON DWAN NASH-TROUT
NOTARY PUBLIC - MINNESOTA
My Commission Expires
January 31, 2026

_____
Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 13th day of April, 2023.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

This Power of Attorney expires
January 31, 2025

_____
Kara Barrow, Secretary

Please direct bond verifications to surety@intactinsurance.com

APPENDIX B

Boring and Well Construction Logs

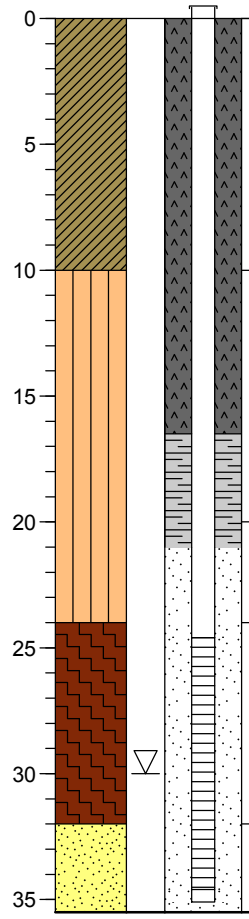
Geosyntec consultants
engineers | scientists | innovators

Client: Southern Company Services
Project: Plant Wansley Well Installation
Address: 1371 Liberty Church Rd, Carrollton, GA

WELL LOG

Well No. PZ-30
Page: 1 of 1

Drilling Start Date:	3/28/2024	Boring Depth (ft):	35.5	Well Depth (ft):	35.1
Drilling End Date:	3/30/2024	Boring Diameter (in):	6"	Well Diameter (in):	2
Drilling Company:	Cascade Drilling	Sampling Method(s):	Core Barrel	Screen Slot (in):	0.010
Drilling Method:	Sonic	DTW During Drilling (ft):	30.0	Riser Material:	Sch 40 PVC
Drilling Equipment:	Terra Sonic 150CC	Ground Surface Elev. (ft):	812.43	Screen Material:	Sch 40 PVC U-Pack
Driller:	K. Grant	Top of Casing Elev. (ft):	814.80	Seal Material(s):	Bentonite
Logged By:	T. Kessler/Z. Webb	North, East (Y,X):	1240592.30, 2027321.68	Filter Pack:	20/40 Sand



DEPTH (ft)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft MSL)
0	(0') Silty CLAY (CL); pinkish gray, dry to moist, trace angular to subangular gravel throughout, no recovery-soil logged from air knifed material.	Logged air knife material.	810
5			805
10	(8') Trace rock from 8-10 feet bgs - highly weathered schist (broken into gravel). (10') Sandy SILT (ML); pinkish gray, dry, friable, relict rock structure, abundant PWR, trace fine-grained sand throughout.	Hard drilling and increased rig chatter.	800
15	(16') PWR increases with depth. (16.5') PWR includes iron staining.	Increased chatter from 14-15 feet bgs. Hard drilling, swelling noted in core.	795
20	(20') Sandy SILT (ML); pinkish gray, dry, PWR (broken into medium to coarse gravel-sized pieces), trace fine-grained sand throughout, with iron staining throughout.	Hard drilling from 20-30 feet bgs.	790
25	(24') GNEISS; moderate orange pink with bluish white banding, hard, moderately weathered, abundant iron staining throughout.	**Filter Pack:** Four and one half 50-lbs bags of 20/40 sand equating to 225 cubic feet in volume. **Top Seal:** One five-gallon bucket of bentonite pellets.	785
30	(30') Coarse grained subangular reddish yellow sand, with iron staining throughout.		
35	(32') SAND (SP); reddish yellow, coarse grained subangular sand with trace PWR and abundant subrounded to subangular gneiss fragments. (35.5') Boring terminated.		780

NOTES: Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Well completed with 6 inch long PVC sump below well screen, and aboveground (+2.37 feet) PVC stickup with metal protective cover and guard posts set in concrete. Well depth measured from ground surface.

Geosyntec consultants
engineers | scientists | innovators

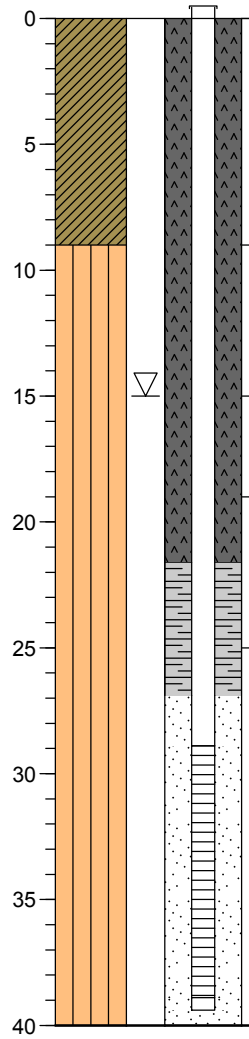
Client: Southern Company Services
Project: Plant Wansley Well Installation
Address: 1371 Liberty Church Rd, Carrollton, GA

WELL LOG

Well No. PZ-31
Page: 1 of 1

Drilling Start Date:	3/21/2024	Boring Depth (ft):	40	Well Depth (ft):	39.4
Drilling End Date:	3/22/2024	Boring Diameter (in):	6"	Well Diameter (in):	2
Drilling Company:	Cascade Drilling	Sampling Method(s):	Core Barrel	Screen Slot (in):	0.010
Drilling Method:	Sonic	DTW During Drilling (ft):	15.0	Riser Material:	Sch 40 PVC
Drilling Equipment:	Terra Sonic 150CC	Ground Surface Elev. (ft):	807.86	Screen Material:	Sch 40 PVC U-Pack
Driller:	K. Grant	Top of Casing Elev. (ft):	810.90	Seal Material(s):	Bentonite
Logged By:	Z. Webb	North, East (Y,X):	1239941.77, 2024324.33	Filter Pack:	20/40 Sand

DEPTH (ft)	SOIL/ROCK VISUAL DESCRIPTION	REMARKS	ELEVATION (ft MSL)
0	(0') Silty CLAY (CL); red, moist becoming drier with depth, low plasticity.	Logged air knife material.	805
5			
10	(9') Sandy SILT (ML); red, moist, soft, low plasticity, with coarse grained sand interspersed, abundant mica.		800
15	(15') Sandy SILT (ML); light brown, moist, low plasticity, some coarse grained sand and rock fragments throughout, abundant mica, orange bands within core (iron staining).		795
20	(19') Sandy SILT (ML); light brown, moist, low plasticity, PWR fragments throughout, abundant mica, reddish yellow bands.		790
25	(25') Sandy SILT (ML); pale brown, moist, low plasticity, mica and PWR fragments throughout, orange bands.		785
30	(29') Decreasing moisture content with depth, chalkier with depth, reddish yellow bands throughout, iron staining.	**Filter Pack:** Four and one half 50-lbs bags of 20/40 sand equating to 225 cubic feet in volume. **Top Seal:** One five-gallon bucket of bentonite pellets.	780
35			775
40	(40') Boring terminated.		770



NOTES: Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Well completed with 6 inch long PVC sump below well screen, and aboveground (+3.04 feet) PVC stickup with metal protective cover and guard posts set in concrete. Well depth measured from ground surface.

APPENDIX C

Well Development and Equipment Calibration Forms

Atlantic Coast Consulting, Inc.
Well Development Field Record

Job Name: Plant Wansley Ash Pond | Job No. I054-118 | Well ID PZ-30

Developed By: J. Berisford | Date of Installation: | Sheet 1 of 1

Started Dev. 4-10-2024 / 10:15 (Date / Time) | Completed Dev. 4-10-2024 / 12:10 (Date / Time)

W.L. Before Dev. 22.35 / 4-10-2024 / 10:11 (BTOC / Date / Time) | W.L. After Dev. 30.00 / 4-10-2024 / 12:10 (BTOC / Date / Time)

Well Depth Before Dev.: 38.03 BTOC | Well Depth After Dev.: 38.04 BTOC

Water Column (H): 15.68 Ft. | Well Dia.: 2 In. | Well Volume: 2.51 Gal. | Screen Length: 10 Ft.

			Field Parameters						
Date / Time	Volume Removed (Gal.)	Water Level (BTOC)	pH (S.U.)	Specific Cond. (µS/cm)	DO mg/L	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Remarks
4-10-24/1055	5.1	29.60	6.21	112.40	5.69	121	18.22	125.1	Surged Pump
4-10-24/1105	7.8	37.80	6.14	116.64	4.76	101	18.16	131.6	Surged Pump
4-10-24/1110	9.2	30.00	6.20	111.26	5.38	96	18.45	131.1	
4-10-24/1115	9.8	30.00	6.07	107.54	5.69	81	18.57	134.1	
4-10-24/1120	10.5	30.00	5.99	104.87	6.41	79	18.76	137.1	
4-10-24/1125	11.2	30.00	5.89	103.35	6.93	64	18.70	139.4	
4-10-24/1130	11.8	30.00	5.79	101.81	7.19	62	18.69	144.7	
4-10-24/1135	12.5	30.00	5.88	105.12	6.47	55	18.50	150.7	
4-10-24/1140	13.2	30.00	5.89	104.50	6.36	33	18.73	149.2	
4-10-24/1145	13.8	30.00	5.80	102.75	6.87	98	18.93	152.9	Surged Pump
4-10-24/1150	14.5	30.00	5.78	102.57	7.04	42	18.86	156.4	
4-10-24/1155	15.2	30.00	5.76	103.51	7.08	16	18.84	164.7	
4-10-24/1200	15.8	30.00	5.74	102.09	7.18	7.04	18.82	163.2	
4-10-24/1205	16.5	30.00	5.74	102.96	7.10	2.77	18.67	166.5	
4-10-24/1210	17.2	30.00	5.83	105.98	6.59	1.76	18.66	172.4	End of development
Total Volume Removed:	17.2 gallons								

Development Method: Predeveloped by surging with foot valve and surge block for 10 minutes. Started monsoon pump on at 10:30.

Resurged pump until five well volumes removed and turbidity fell under 5 NTUs.

Notes:
- H = well depth (BTOC) - W.L. (BTOC)
- 2" diameter well: 0.16 X H = volume in gallons
- BTOC = Below top of casing
- W.L. = Water Level
- DO = Dissolved oxygen
- ORP = Oxidation reduction potential
- S.U. = Standard Units
- mV = millivolts
- µS/cm = microsiemens per centimeters
- Ft. = feet
- in. inch
- Gal. = Gallons
- NTU = Nephelometric turbidity units
- °C = Degrees celsius
- mg/L = milligrams per liter

Atlantic Coast Consulting, Inc.
Well Development Field Record

Job Name: Plant Wansley Ash Pond | Job No. I054-118 | Well ID PZ-31

Developed By: J. Berisford | Date of Installation: | Sheet 1 of 1

Started Dev. 4-10-2024 / 12:37 (Date / Time) | Completed Dev. 4-10-2024 / 15:36 (Date / Time)

W.L. Before Dev. 17.89 / 4-10-2024 / 12:29 (BTOC / Date / Time) | W.L. After Dev. 28.40 / 4-10-2024 / 15:35 (BTOC / Date / Time)

Well Depth Before Dev.: 42.25 BTOC | Well Depth After Dev.: 42.25 BTOC

Water Column (H): 24.36 Ft. | Well Dia.: 2 In. | Well Volume: 3.90 Gal. | Screen Length: 10 Ft.

			Field Parameters						
Date / Time	Volume Removed (Gal.)	Water Level (BTOC)	pH (S.U.)	Specific Cond. (µS/cm)	DO mg/L	Turbidity (NTU)	Temperature (°C)	ORP (mV)	Remarks
4-10-24/1255	4.75	17.89	5.81	58.88	0.95	1000	19.85	164.3	Surged well
4-10-24/1300	7.15	23.70	5.77	62.64	0.66	989	19.87	163.5	
4-10-24/1305	9.55	27.20	5.73	63.56	0.71	879	19.89	153.4	
4-10-24/1310	11.95	28.30	5.69	60.83	0.99	864	19.79	155.7	Surged well
4-10-24/1335	22.75	28.50	5.68	57.18	1.40	201	19.97	160.2	
4-10-24/1345	25.15	28.40	5.62	55.96	1.85	148	20.31	171.9	
4-10-24/1355	27.55	28.40	5.56	52.11	2.17	360	20.12	136.9	Surged well
4-10-24/1405	30.0	28.40	5.57	52.61	2.13	108	20.09	165.9	
4-10-24/1435	37.2	28.40	5.47	48.80	2.63	71	19.90	164.6	
4-10-24/1455	42.0	28.40	5.46	48.91	2.71	22	19.83	157.1	
4-10-24/1500	43.2	28.40	5.47	49.24	2.68	17	19.89	156.3	
4-10-24/1505	44.4	28.40	5.45	48.82	2.77	11	19.86	160.5	
4-10-24/1510	45.6	28.40	5.45	48.19	2.80	8.93	19.91	155.6	
4-10-24/1515	46.8	28.40	5.46	48.76	2.78	5.11	19.91	155.0	
4-10-24/1520	48.0	28.40	5.45	49.03	2.79	4.83	19.95	159.5	
4-10-24/1525	49.2	28.40	5.44	48.43	2.86	2.37	19.90	154.2	
4-10-24/1530	50.4	28.40	5.44	47.98	2.89	1.12	19.88	153.2	
4-10-24/1535	51.6	28.40	5.43	48.09	2.90	0.83	19.90	153.0	End of development
Total Volume Removed:	51.6 gallons								

Development Method: Predeveloped by surging with foot valve and surge block for 10 minutes. Started monsoon pump on at 12:50.

Resurged pump until five well volumes removed and turbidity fell under 5 NTUs.

Notes:
- H = well depth (BTOC) - W.L. (BTOC)
- 2" diameter well: 0.16 X H = volume in gallons
- BTOC = Below top of casing
- W.L. = Water Level
- DO = Dissolved oxygen
- ORP = Oxidation reduction potential
- S.U. = Standard Units
- mV = millivolts
- µS/cm = microsiemens per centimeters
- Ft. = feet
- in. inch
- Gal. = Gallons
- NTU = Nephelometric turbidity units
- °C = Degrees celsius
- mg/L = milligrams per liter

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Wansley AP

Date: 4/10/2024

Calibrated By: J. Bamford

Field Conditions: cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	~~Aqua TROLL~~ HOTO	1101816
Turbidity Meter	HACH 2100Q	16040C049743

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	N/A	—	—
pH (SU)	4.00	3651090	10/25	Pine
pH (SU)	7.00	3650918	10/25	Pine
pH (SU)	10.00	3660538	7/25	Pine
Specific Conductance (µS/cm)	1,413	3650727	10/24	Pine
ORP (mV)	240.0	36110038	5/24	Pine

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	N/A	PI 11/20	—
	10	A3134	8/24	HACH
	20	A3138	8/24	HACH
	100	A3139	8/24	HACH

Calibration					
Time Start: 1034			Time Finish: 1042		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	100.0	18.97	± 10%	EPA 2023
pH (SU)	4.00	4.00	19.15	± 0.1	GWMP
pH (SU)	7.00	7.02	19.22	± 0.1	GWMP
pH (SU)	10.00	10.05	19.21	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1,413~~ 1284	1285	19.19	± 10% of standard	NA
ORP (mV)	~~240.0~~ 236	235	19.15	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.19	± 10% of standard	EPA 2023
	10	9.89		
	20	20.1		
	100	98		

Calibration Check					
Time Start 1220			Time Finish 1230		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.07	19.71	± 0.1	GWMP
pH (SU)	7.00	7.05	19.55	± 0.1	GWMP
pH (SU)	10.00	9.92	19.61	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1,413~~ 1284	1307	19.60	± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.21	± 10% of standard	EPA 2023
	10	9.91		
	20	20.2		
	100	99		

Notes:

APPENDIX D

Certified Well Survey Data

GEL ENGINEERING OF NC INC

Plant Wansley Monitoring Wells

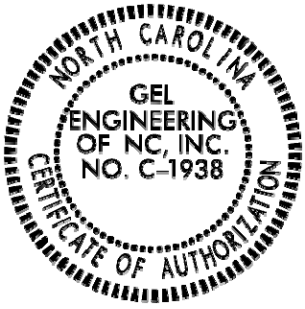
Field Surveys: 7/01/2024

Well ID	Casing Northing	Casing Easting	Top of Casing Elevation	Nail or Pad Northing	Nail or Pad Easting	Nail or Pad Elevation	Description
PZ-30	1240592.295	2027321.682	814.80	1240591.324	2027321.634	812.43	NAIL
PZ-31	1239941.772	2024324.328	810.90	1239940.65	2024324.993	807.86	NAIL
Benchmark	Northing	Easting	Elevation				
BM-W1	1243475.416	2029633.083	804.08				

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION OF THE NAIL IN THE CONCRETE PAD & THE PVC WELL CASING. DATE OF FIELD SURVEY & INSPECTION: 7/01/2024. FIELD SURVEY POSITIONAL TOLERANCE=0.5 FEET HORIZONTAL-NAD'83, 0.01 VERTICAL-NAVD '88. EQUIPMENT USED FOR HORIZONTAL LOCATION: TRIMBLE R12 RTK GPS & TRIMBLE S5 ROBOTIC TOTAL STATION. THE VERTICAL LOCATION OF EACH SURVEYED POINT WAS ESTABLISHED BASED UPON LEVEL RUNS WITH A DIGITAL LEVEL LOOP FROM VERTICAL CONTROL ESTABLISHED BY ON-SITE BENCHMARK BM-W1 SET BY GEL SOLUTIONS USING A TRIMBLE DINI LEVEL



7/1/2024





COA - LS003119
Exp. 12/31/2024

APPENDIX E

Well Abandonment Logs

Piezometer Abandonment Field Form

Project Name: Plant Wansley Piezometer Abandonment Piezometer ID: PZ-11

Project No.: GW7327B Drilling Co.: Cascade

Geosyntec Rep: Thomas Kessler Driller: Kelly Grant

Date of Abandonment: 3/19/2024

Abandonment Method (i.e. Grout in Place, Overdrill and Grout, etc.): Abandonment via tremie grouting PVC riser pipe, overdrilling to 10 ft below ground surface, and grouting to 3 feet below ground surface. Bentonite chips used from 3 feet below ground surface to surface.

Overdrill Method (i.e. Sonic, Hollow Stem Auger, Air Rotary, etc.): Sonic

Guide Rod Used During Overdrill (yes or no): No

Diameter of Overdrill Casing/Auger/Bit: 6-inch

Total Depth: 33.32 ft from Top of Casing Total Depth of Overdrill: 10 ft below ground surface

Length of Casing and Screen Removed: 10 feet

Total Volume of Grout Used:

Initial Grouting of Casing: 7 gallons

Final Grouting of Overdrilled Hole: 15 gallons

Grout Mixture:

1 Bags of Cement Used (47 lbs. each)

1/3 Bags of Bentonite Used (50 lbs. each)

20 Gallons of Water Used

Cement Brand: Lehigh Bentonite Brand: Aquaguard

Grout Settlement After 24 Hours: N/A

Notes:

Water Level prior to abandonment: 22.23 ft below Top of Casing

2 bags of 3/8 bentonite pellets used to chip the top 3 feet of bore hole

Piezometer Abandonment Field Form

Project Name: Plant Wansley Piezometer Abandonment Piezometer ID: PB-7

Project No.: GW7327B Drilling Co.: Cascade

Geosyntec Rep: Thomas Kessler Driller: Kelly Grant

Date of Abandonment: 3/19/2024

Abandonment Method (i.e. Grout in Place, Overdrill and Grout, etc.): Abandonment via tremie grouting PVC riser pipe, overdrilling to 10 ft below ground surface, and grouting to ground surface.

Overdrill Method (i.e. Sonic, Hollow Stem Auger, Air Rotary, etc.): Sonic

Guide Rod Used During Overdrill (yes or no): No

Diameter of Overdrill Casing/Auger/Bit: 6-inch

Total Depth: 90.00 ft from Top of Casing Total Depth of Overdrill: 10 ft below ground surface

Length of Casing and Screen Removed: 10 feet

Total Volume of Grout Used:

Initial Grouting of Casing: 18 gallons

Final Grouting of Overdrilled Hole: 16 gallons

Grout Mixture:

3 Bags of Cement Used (47 lbs. each)

1 Bags of Bentonite Used (50 lbs. each)

40 Gallons of Water Used

Cement Brand: Lehigh Bentonite Brand: Aquaguard

Grout Settlement After 24 Hours: N/A

Notes:

Water Level prior to abandonment: 31.70 ft below Top of Casing

5 gallons of grout used to plug holes left by the removal of surface bollards.

APPENDIX B

Well Maintenance and Repair Documentation Memoranda

ATLANTIC COAST CONSULTING, INC.

Our work helps produce a cleaner environment for all.

Memorandum

To:	Trey Singleton – Southern Company Services
From:	Atlantic Coast Consulting, Inc.
Date	February 23, 2024
Subject:	Plant Wansley Ash Pond – Well Maintenance and Repair Documentation Georgia Power Company

Atlantic Coast Consulting, Inc. (ACC) has prepared this memorandum to provide documentation of any groundwater monitoring well maintenance and/or repairs performed at Plant Wansley Ash Pond during the 2024 Semiannual Groundwater Monitoring reporting period.

Background groundwater monitoring well WGWA-5 was originally sampled by ACC on February 13, 2024. The field technician spent four hours purging the well before sampling in an attempt to lower the turbidity; however, the turbidity remained above 10 Nephelometric Turbidity Units (NTU) during the entire time period the well was being purged, which is above the target maximum. The sample was submitted to Eurofins TestAmerica on February 14, 2024, and was requested to keep analysis on hold until further notice.

Background groundwater monitoring well WGWA-5 was then redeveloped by ACC on February 14, 2024. The well was redeveloped by surge block and pumping. ACC was unable to successfully redevelop WGWA-5 sufficiently, as the turbidity remained above 10 NTU during the entire redevelopment process. ACC sampled WGWA-5 again on February 16, 2024. After three hours of purging, turbidity remained above 10 NTU but below 20 NTU and all other parameters were stabilized. ACC collected the required samples for WGWA-5 and, per the field sampling plan guidance, collected an additional dissolved metal sample. Because the turbidity was lower in the February 16th sample than the February 13th sample, Eurofins was advised to proceed with analysis of the February 16th sample and keep the February 13th sample on hold until further notice.

ACC conducted an internal well investigation via camera inspection of WGWA-5 on February 22, 2024, and reported the findings to Southern Company Services and Georgia Power Company. No repairs or well maintenance were necessary during the reporting period.

Well Inspection

Site Name: Plant Wansley Ash Pond 1 Date: 2/12/2024

Permit Number: Field Conditions: Overcast, rain

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
WGWA-1	YES	YES	NO	YES
WGWA-2	YES	YES	NO	YES
WGWA-3	YES	YES	NO	YES
WGWA-4	YES	YES	NO	YES
WGWA-5	YES	YES	NO	YES
WGWA-6	YES	YES	NO	YES
WGWA-7	YES	YES	NO	YES
WGWA-18	YES	YES	NO	YES
WGWC-8	YES	YES	NO	YES
WGWC-9	YES	YES	NO	YES
WGWC-10	YES	YES	NO	YES
WGWC-11	YES	YES	NO	YES
WGWC-12	YES	YES	NO	YES
WGWC-13	YES	YES	NO	YES
WGWC-14A	YES	YES	NO	YES
WGWC-15	YES	YES	NO	YES
WGWC-16	YES	YES	NO	YES
WGWC-17	YES	YES	NO	YES
WGWC-19	YES	YES	NO	YES
WGWC-20	YES	YES	NO	YES
WGWC-21	YES	YES	NO	YES
WGWC-22	YES	YES	NO	YES
WGWC-23	YES	YES	NO	YES
WGWC-24	YES	YES	NO	YES
WGWC-25	YES	YES	NO	YES
WGWC-26D	YES	YES	NO	YES
WGWC-27	YES	YES	NO	YES
WGWC-28D	YES	YES	NO	YES
PZ-1	YES	YES	NO	YES
PZ-4	YES	YES	NO	YES
PZ-6	YES	YES	NO	YES
PZ-8	YES	YES	NO	YES
PZ-10	YES	YES	NO	YES
PZ-11	YES	YES	NO	YES
PZ-12	YES	YES	NO	YES
PZ-15	YES	YES	NO	YES
PZ-16	YES	YES	NO	YES

Well Inspection

Site Name: Plant Wansley Ash Pond 1 Date: 2/12/2024

Permit Number: Field Conditions: Overcast, rain

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
PZ-17	YES	YES	NO	YES
PZ-18	YES	YES	NO	YES
PZ-20	YES	YES	NO	YES
PZ-23D	YES	YES	NO	YES
PZ-26D	YES	YES	NO	YES
PZ-27D	YES	YES	NO	YES
PZ-28	YES	YES	NO	YES
PZ-29D	YES	YES	NO	YES
PZ-29S	YES	YES	NO	YES
WAMW-1	YES	YES	NO	YES
WAMW-2	YES	YES	NO	YES

Well Inspection

Site Name: Plant Wansley Ash Pond 1 Date: 2/12/2024

Permit Number: Field Conditions: Overcast, rain

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
WGWA-1	YES	YES	YES	YES	YES
WGWA-2	YES	YES	YES	YES	YES
WGWA-3	YES	YES	YES	YES	YES
WGWA-4	YES	YES	YES	YES	YES
WGWA-5	YES	YES	YES	YES	YES
WGWA-6	YES	YES	YES	YES	YES
WGWA-7	YES	YES	YES	YES	YES
WGWA-18	YES	YES	YES	YES	YES
WGWC-8	YES	YES	YES	YES	YES
WGWC-9	YES	YES	YES	YES	YES
WGWC-10	YES	YES	YES	YES	YES
WGWC-11	YES	YES	YES	YES	YES
WGWC-12	YES	YES	YES	YES	YES
WGWC-13	YES	YES	YES	YES	YES
WGWC-14A	YES	YES	YES	YES	YES
WGWC-15	YES	YES	YES	YES	YES
WGWC-16	YES	YES	YES	YES	YES
WGWC-17	YES	YES	YES	YES	YES
WGWC-19	YES	YES	YES	YES	YES
WGWC-20	YES	YES	YES	YES	YES
WGWC-21	YES	YES	YES	YES	YES
WGWC-22	YES	YES	YES	YES	YES
WGWC-23	YES	YES	YES	YES	YES
WGWC-24	YES	YES	YES	YES	YES
WGWC-25	YES	YES	YES	YES	YES
WGWC-26D	YES	YES	YES	YES	YES
WGWC-27	YES	YES	YES	YES	YES
WGWC-28D	YES	YES	YES	YES	YES
PZ-01	YES	YES	YES	YES	YES
PZ-04	YES	YES	YES	YES	YES
PZ-06	YES	YES	YES	YES	YES
PZ-08	YES	YES	YES	YES	YES
PZ-10	YES	YES	YES	YES	YES
PZ-11	YES	YES	YES	YES	YES
PZ-12	YES	YES	YES	YES	YES
PZ-15	YES	YES	YES	YES	YES
PZ-16	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant Wansley Ash Pond 1 Date: 2/12/2024

Permit Number: Field Conditions: Overcast, rain

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-17	YES	YES	YES	YES	YES
PZ-18	YES	YES	YES	YES	YES
PZ-20	YES	YES	YES	YES	YES
PZ-23D	YES	YES	YES	YES	YES
PZ-26D	YES	YES	YES	YES	YES
PZ-27D	YES	YES	YES	YES	YES
PZ-28	YES	YES	YES	YES	YES
PZ-29D	YES	YES	YES	YES	YES
PZ-29S	YES	YES	YES	YES	YES
WAMW-1	YES	YES	YES	YES	YES
WAMW-2	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant Wansley Ash Pond 1 Date: 2/12/2024

Permit Number: Field Conditions: Overcast, rain

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
WGWA-1	YES	YES	YES	YES	YES	YES
WGWA-2	YES	YES	YES	YES	YES	YES
WGWA-3	YES	YES	YES	YES	YES	YES
WGWA-4	YES	YES	YES	YES	YES	YES
WGWA-5	YES	YES	YES	YES	YES	YES
WGWA-6	YES	YES	YES	YES	YES	YES
WGWA-7	YES	YES	YES	YES	YES	YES
WGWA-18	YES	YES	YES	YES	YES	YES
WGWC-8	YES	YES	YES	YES	YES	YES
WGWC-9	YES	YES	YES	YES	YES	YES
WGWC-10	YES	YES	YES	YES	YES	YES
WGWC-11	YES	YES	YES	YES	YES	YES
WGWC-12	YES	YES	YES	YES	YES	YES
WGWC-13	YES	YES	YES	YES	YES	YES
WGWC-14A	YES	YES	YES	YES	YES	YES
WGWC-15	YES	YES	YES	YES	YES	YES
WGWC-16	YES	YES	YES	YES	YES	YES
WGWC-17	YES	YES	YES	YES	YES	YES
WGWC-19	YES	YES	YES	YES	YES	YES
WGWC-20	YES	YES	YES	YES	YES	YES
WGWC-21	YES	YES	YES	YES	YES	YES
WGWC-22	YES	YES	YES	YES	YES	YES
WGWC-23	YES	YES	YES	YES	YES	YES
WGWC-24	YES	YES	YES	YES	YES	YES
WGWC-25	YES	YES	YES	YES	YES	YES
WGWC-26D	YES	YES	YES	YES	YES	YES
WGWC-27	YES	YES	YES	YES	YES	YES
WGWC-28D	YES	YES	YES	YES	YES	YES
PZ-01	YES	YES	YES	YES	YES	YES
PZ-04	YES	YES	YES	YES	YES	YES
PZ-06	YES	YES	YES	YES	YES	YES
PZ-08	YES	YES	YES	YES	YES	YES
PZ-10	YES	YES	YES	YES	YES	YES
PZ-11	YES	YES	YES	YES	YES	YES
PZ-12	YES	YES	YES	YES	YES	YES
PZ-15	YES	YES	YES	YES	YES	YES
PZ-16	YES	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant Wansley Ash Pond 1 Date: 2/12/2024

Permit Number: Field Conditions: Overcast, rain

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
PZ-17	YES	YES	YES	YES	YES	YES
PZ-18	YES	YES	YES	YES	YES	YES
PZ-20	YES	YES	YES	YES	YES	YES
PZ-23D	YES	YES	YES	YES	YES	YES
PZ-26D	YES	YES	YES	YES	YES	YES
PZ-27D	YES	YES	YES	YES	YES	YES
PZ-28	YES	YES	YES	YES	YES	YES
PZ-29D	YES	YES	YES	YES	YES	YES
PZ-29S	YES	YES	YES	YES	YES	YES
WAMW-1	YES	YES	YES	YES	YES	YES
WAMW-2	YES	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant Wansley Ash Pond 1 Date: 2/12/2024

Permit Number: Field Conditions: Overcast, rain

Well ID:	Corrective actions as needed, by date:
WGWA-1	
WGWA-2	
WGWA-3	
WGWA-4	
WGWA-5	Performed internal well investigation via camera February 22, 2024.
WGWA-6	
WGWA-7	
WGWA-18	
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	
WGWC-25	
WGWC-26D	
WGWC-27	
WGWC-28D	
PZ-01	
PZ-04	
PZ-06	
PZ-08	
PZ-10	
PZ-11	
PZ-12	
PZ-15	
PZ-16	

Well Inspection

Site Name: Plant Wansley Ash Pond 1 Date: 2/12/2024

Permit Number: Field Conditions: Overcast, rain

Well ID:	Corrective actions as needed, by date:
PZ-17	
PZ-18	
PZ-20	
PZ-23D	
PZ-26D	
PZ-27D	
PZ-28	
PZ-29D	
PZ-29S	
WAMW-1	
WAMW-2	

APPENDIX C

Analytical Laboratory Results and Field Sampling Forms

Appendix C1: Laboratory Analytical Data Packages and Data Validation Reports

Appendix C2: Field Sampling Forms

APPENDIX C1

Laboratory Analytical Data Packages and Data Validation Reports

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/5/2024 10:26:36 AM

JOB DESCRIPTION

Plant Wansley Ash Pond

JOB NUMBER

680-246862-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

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

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

Authorization



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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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

Job ID: 680-246862-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
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
F1	MS and/or MSD recovery exceeds control limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.

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

Sample Summary

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

Job ID: 680-246862-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-246862-1	WAN-WGWA-1	Water	02/13/24 12:15	02/16/24 10:03
680-246862-2	WAN-WGWA-2	Water	02/13/24 10:55	02/16/24 10:03
680-246862-3	WAN-WGWA-3	Water	02/13/24 11:07	02/16/24 10:03
680-246862-4	WAN-WGWA-4	Water	02/13/24 12:05	02/16/24 10:03
680-246862-5	WAN-WGWA-6	Water	02/13/24 13:08	02/16/24 10:03
680-246862-6	WAN-WGWC-20	Water	02/13/24 14:00	02/16/24 10:03
680-246862-7	WAN-WGWC-8	Water	02/13/24 15:30	02/16/24 10:03
680-246862-8	WAN-AP1-FB-07	Water	02/13/24 15:15	02/16/24 10:03
680-246862-9	WAN-WGWA-7	Water	02/13/24 16:20	02/16/24 10:03
680-246862-10	WAN-WGWA-18	Water	02/13/24 11:55	02/16/24 10:03
680-246862-11	WAN-AP1-FD-01	Water	02/14/24 00:00	02/16/24 10:03
680-246862-12	WAN-WGWC-9	Water	02/14/24 13:45	02/16/24 10:03
680-246862-13	WAN-WGWC-28D	Water	02/14/24 12:20	02/16/24 10:03
680-246862-14	WAN-AP1-EB-01	Water	02/14/24 12:50	02/16/24 10:03
680-246862-15	WAN-WGWC-24	Water	02/14/24 15:30	02/16/24 10:03
680-246862-16	WAN-WGWC-12	Water	02/14/24 14:35	02/16/24 10:03
680-246862-17	WAN-WGWC-22	Water	02/14/24 11:40	02/16/24 10:03

Job ID: 680-246862-1 — Eurofins Savannah

Job Narrative
680-246862-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 2/16/2024 10:03 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 1.1°C, 1.8°C, 2.3°C, 2.4°C, 2.5°C and 4.3°C.

HPLC/IC
Method 300_ORGFM_28D: The CCV recovered outside the established limit of 90%: (CCV 680-825136/18) Data has been reported.
Bromide 89%
Fluoride 87%
Sulfate 83%

Method 300_ORGFM_28D: The CCV recovered outside the established limit of 90%: (CCV 680-825136/35) Data has been reported.
Chloride 86%
Fluoride 80%
Sulfate 79%

Method 300_ORGFM_28D: LCS/LCSD recovered outside the established limit of 90%. Sulfate at 88%. Batch MS/MSD passes. (LCS 680-825136/4) and (LCSD 680-825136/5) The data has been reported.

Method 300_ORGFM_28D: The CCV recovered outside the established limit of 90%: (CCV 680-825238/35) Data has been reported.
Chloride 86%
Fluoride 80%
Sulfate 79%

Method 300_ORGFM_28D: The CCV recovered outside the established limit of 90%: (CCV 680-825238/49) Data has been reported.
Chloride 89%
Fluoride 83%
Sulfate 82%

Method 300_ORGFM_28D: The CCV recovered outside the established limit of 90%: (CCV 680-825238/66) Data has been reported.
Chloride 89%
Fluoride 82%
Sulfate 82%

Method 300_ORGFM_28D: LCS/LCSD LCSD recovered outside the established limit of 90%. Sulfate at 84% and 86%. (LCS 680-825238/100) and (LCSD 680-825238/99) The data has been reported.

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.

Job ID: 680-246862-1 (Continued) Eurofins Savannah

General Chemistry

Method 2320B: The sample duplicate precision for the following sample associated with analytical batch 680-823723 was outside control limits: (680-246862-G-11 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

Method 2540C: A lesser volume of sample was used for the following samples due to the nature of the sample matrix resulting in elevated reporting limits: WAN-WGWC-20 (680-246862-6), WAN-WGWC-8 (680-246862-7), WAN-WGWC-28D (680-246862-13), WAN-WGWC-24 (680-246862-15) and WAN-WGWC-22 (680-246862-17).

Method 2540C: The sample duplicate precision for the following sample associated with analytical batch 680-823618 was outside control limits: (680-246862-E-17 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

Method SM4500_S2_F: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batches 680-823366 and 680-823768 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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

Job ID: 680-246862-1

Client Sample ID: WAN-WGWA-1

Lab Sample ID: 680-246862-1

Date Collected: 02/13/24 12:15

Matrix: Water

Date Received: 02/16/24 10:03

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.5**		1.0	0.20	mg/L			02/29/24 20:14	1
Fluoride	<0.040		0.10	0.040	mg/L			02/29/24 20:14	1
Sulfate	<0.40	*-	1.0	0.40	mg/L			02/29/24 20:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:27	02/22/24 14:58	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:27	02/22/24 14:58	1
Barium	**0.047**		0.010	0.00089	mg/L		02/20/24 05:27	02/22/24 14:58	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:27	02/22/24 14:58	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:27	02/22/24 14:58	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:27	02/22/24 14:58	1
Calcium	**1.3**		0.50	0.14	mg/L		02/20/24 05:27	02/22/24 14:58	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:27	02/22/24 14:58	1
Cobalt	**0.00064**	**J**	0.0025	0.00022	mg/L		02/20/24 05:27	02/22/24 14:58	1
Iron	**0.020**	**J**	0.050	0.012	mg/L		02/20/24 05:27	02/22/24 14:58	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:27	02/22/24 14:58	1
Lithium	**0.0049**	**J**	0.0050	0.0020	mg/L		02/20/24 05:27	02/22/24 14:58	1
Magnesium	**1.1**		0.50	0.023	mg/L		02/20/24 05:27	02/22/24 14:58	1
Manganese	**0.0084**		0.0050	0.0022	mg/L		02/20/24 05:27	02/22/24 14:58	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:27	02/22/24 14:58	1
Potassium	**1.2**		0.50	0.044	mg/L		02/20/24 05:27	02/22/24 14:58	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:27	02/22/24 14:58	1
Sodium	**3.2**		0.50	0.20	mg/L		02/20/24 05:27	02/22/24 14:58	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:27	02/22/24 14:58	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:00	02/21/24 18:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/19/24 19:54	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/19/24 19:54	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/19/24 19:54	1
Total Dissolved Solids (SM 2540C-2011)	**36**		10	10	mg/L			02/19/24 10:58	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/19/24 12:23	1

Client Sample ID: WAN-WGWA-2

Lab Sample ID: 680-246862-2

Date Collected: 02/13/24 10:55

Matrix: Water

Date Received: 02/16/24 10:03

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.4**		1.0	0.20	mg/L			02/29/24 20:25	1
Fluoride	<0.040		0.10	0.040	mg/L			02/29/24 20:25	1
Sulfate	**0.64**	**J *-**	1.0	0.40	mg/L			02/29/24 20:25	1

Client Sample ID: WAN-WGWA-2

Lab Sample ID: 680-246862-2

Date Collected: 02/13/24 10:55

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:27	02/22/24 15:37	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:27	02/22/24 15:37	1
Barium	**0.025**		0.010	0.00089	mg/L		02/20/24 05:27	02/22/24 15:37	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:27	02/22/24 15:37	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:27	02/22/24 15:37	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:27	02/22/24 15:37	1
Calcium	**12**		0.50	0.14	mg/L		02/20/24 05:27	02/22/24 15:37	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:27	02/22/24 15:37	1
Cobalt	**0.00049**	**J**	0.0025	0.00022	mg/L		02/20/24 05:27	02/22/24 15:37	1
Iron	**0.034**	**J**	0.050	0.012	mg/L		02/20/24 05:27	02/22/24 15:37	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:27	02/22/24 15:37	1
Lithium	**0.0082**		0.0050	0.0020	mg/L		02/20/24 05:27	02/22/24 15:37	1
Magnesium	**4.4**		0.50	0.023	mg/L		02/20/24 05:27	02/22/24 15:37	1
Manganese	**0.030**		0.0050	0.0022	mg/L		02/20/24 05:27	02/22/24 15:37	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:27	02/22/24 15:37	1
Potassium	**2.6**		0.50	0.044	mg/L		02/20/24 05:27	02/22/24 15:37	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:27	02/22/24 15:37	1
Sodium	**9.4**		0.50	0.20	mg/L		02/20/24 05:27	02/22/24 15:37	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:27	02/22/24 15:37	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:00	02/21/24 18:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**64**		5.0	5.0	mg/L			02/19/24 20:03	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**64**		5.0	5.0	mg/L			02/19/24 20:03	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/19/24 20:03	1
Total Dissolved Solids (SM 2540C-2011)	**140**		10	10	mg/L			02/19/24 10:58	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/19/24 12:23	1

Client Sample ID: WAN-WGWA-3

Lab Sample ID: 680-246862-3

Date Collected: 02/13/24 11:07

Matrix: Water

Date Received: 02/16/24 10:03

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.5**		1.0	0.20	mg/L			02/29/24 20:36	1
Fluoride	<0.040		0.10	0.040	mg/L			02/29/24 20:36	1
Sulfate	**0.68**	**J *-**	1.0	0.40	mg/L			02/29/24 20:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:27	02/22/24 15:40	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:27	02/22/24 15:40	1
Barium	**0.014**		0.010	0.00089	mg/L		02/20/24 05:27	02/22/24 15:40	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:27	02/22/24 15:40	1

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

Job ID: 680-246862-1

Client Sample ID: WAN-WGWA-3

Lab Sample ID: 680-246862-3

Date Collected: 02/13/24 11:07

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:27	02/22/24 15:40	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:27	02/22/24 15:40	1
Calcium	**1.7**		0.50	0.14	mg/L		02/20/24 05:27	02/22/24 15:40	1
Chromium	**0.0015**	**J**	0.0020	0.0012	mg/L		02/20/24 05:27	02/22/24 15:40	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:27	02/22/24 15:40	1
Iron	**0.035**	**J**	0.050	0.012	mg/L		02/20/24 05:27	02/22/24 15:40	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:27	02/22/24 15:40	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/24 05:27	02/22/24 15:40	1
Magnesium	**1.0**		0.50	0.023	mg/L		02/20/24 05:27	02/22/24 15:40	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/20/24 05:27	02/22/24 15:40	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:27	02/22/24 15:40	1
Potassium	**1.3**		0.50	0.044	mg/L		02/20/24 05:27	02/22/24 15:40	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:27	02/22/24 15:40	1
Sodium	**2.7**		0.50	0.20	mg/L		02/20/24 05:27	02/22/24 15:40	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:27	02/22/24 15:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:00	02/21/24 18:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**11**		5.0	5.0	mg/L			02/19/24 22:36	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**11**		5.0	5.0	mg/L			02/19/24 22:36	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/19/24 22:36	1
Total Dissolved Solids (SM 2540C-2011)	**34**		10	10	mg/L			02/19/24 10:58	1
Sulfide (SM 4500 S2 F-2011)	**0.81**	**F1**	0.81	0.81	mg/L			02/19/24 12:23	1

Client Sample ID: WAN-WGWA-4

Lab Sample ID: 680-246862-4

Date Collected: 02/13/24 12:05

Matrix: Water

Date Received: 02/16/24 10:03

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.1**		1.0	0.20	mg/L			02/29/24 20:48	1
Fluoride	**0.087**	**J**	0.10	0.040	mg/L			02/29/24 20:48	1
Sulfate	**6.2**	***-**	1.0	0.40	mg/L			02/29/24 20:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:27	02/22/24 15:43	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:27	02/22/24 15:43	1
Barium	**0.0062**	**J**	0.010	0.00089	mg/L		02/20/24 05:27	02/22/24 15:43	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:27	02/22/24 15:43	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:27	02/22/24 15:43	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:27	02/22/24 15:43	1
Calcium	**17**		0.50	0.14	mg/L		02/20/24 05:27	02/22/24 15:43	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:27	02/22/24 15:43	1

Client Sample ID: WAN-WGWA-4

Lab Sample ID: 680-246862-4

Date Collected: 02/13/24 12:05

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:27	02/22/24 15:43	1
Iron	**1.0**		0.050	0.012	mg/L		02/20/24 05:27	02/22/24 15:43	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:27	02/22/24 15:43	1
Lithium	**0.0061**		0.0050	0.0020	mg/L		02/20/24 05:27	02/22/24 15:43	1
Magnesium	**2.5**		0.50	0.023	mg/L		02/20/24 05:27	02/22/24 15:43	1
Manganese	**0.18**		0.0050	0.0022	mg/L		02/20/24 05:27	02/22/24 15:43	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:27	02/22/24 15:43	1
Potassium	**2.8**		0.50	0.044	mg/L		02/20/24 05:27	02/22/24 15:43	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:27	02/22/24 15:43	1
Sodium	**7.3**		0.50	0.20	mg/L		02/20/24 05:27	02/22/24 15:43	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:27	02/22/24 15:43	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:00	02/21/24 18:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**63**		5.0	5.0	mg/L			02/19/24 23:01	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**63**		5.0	5.0	mg/L			02/19/24 23:01	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/19/24 23:01	1
Total Dissolved Solids (SM 2540C-2011)	**110**		10	10	mg/L			02/19/24 10:58	1
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			02/19/24 12:23	1

Client Sample ID: WAN-WGWA-6

Lab Sample ID: 680-246862-5

Date Collected: 02/13/24 13:08

Matrix: Water

Date Received: 02/16/24 10:03

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.4**		1.0	0.20	mg/L			02/29/24 20:59	1
Fluoride	**0.070**	**J**	0.10	0.040	mg/L			02/29/24 20:59	1
Sulfate	**6.7**	***-**	1.0	0.40	mg/L			02/29/24 20:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:27	02/22/24 15:46	1
Arsenic	**0.00098**	**J**	0.0010	0.00086	mg/L		02/20/24 05:27	02/22/24 15:46	1
Barium	**0.0076**	**J**	0.010	0.00089	mg/L		02/20/24 05:27	02/22/24 15:46	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:27	02/22/24 15:46	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:27	02/22/24 15:46	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:27	02/22/24 15:46	1
Calcium	**27**		0.50	0.14	mg/L		02/20/24 05:27	02/22/24 15:46	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:27	02/22/24 15:46	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:27	02/22/24 15:46	1
Iron	**0.26**		0.050	0.012	mg/L		02/20/24 05:27	02/22/24 15:46	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:27	02/22/24 15:46	1
Lithium	**0.0054**		0.0050	0.0020	mg/L		02/20/24 05:27	02/22/24 15:46	1

Client Sample ID: WAN-WGWA-6

Lab Sample ID: 680-246862-5

Date Collected: 02/13/24 13:08

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**2.1**		0.50	0.023	mg/L		02/20/24 05:27	02/22/24 15:46	1
Manganese	**0.14**		0.0050	0.0022	mg/L		02/20/24 05:27	02/22/24 15:46	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:27	02/22/24 15:46	1
Potassium	**3.1**		0.50	0.044	mg/L		02/20/24 05:27	02/22/24 15:46	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:27	02/22/24 15:46	1
Sodium	**5.4**		0.50	0.20	mg/L		02/20/24 05:27	02/22/24 15:46	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:27	02/22/24 15:46	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:00	02/21/24 18:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/19/24 22:52	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/19/24 22:52	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/19/24 22:52	1
Total Dissolved Solids (SM 2540C-2011)	**120**		10	10	mg/L			02/19/24 10:58	1
Sulfide (SM 4500 S2 F-2011)	**0.93**		0.81	0.81	mg/L			02/19/24 12:23	1

Client Sample ID: WAN-WGWC-20

Lab Sample ID: 680-246862-6

Date Collected: 02/13/24 14:00

Matrix: Water

Date Received: 02/16/24 10:03

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**230**		25	5.0	mg/L			02/29/24 16:39	25
Fluoride	<1.0		2.5	1.0	mg/L			02/29/24 16:39	25
Sulfate	**280**	*-	25	10	mg/L			02/29/24 16:39	25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00044**	**J**	0.0020	0.00034	mg/L		02/20/24 05:27	02/22/24 16:57	1
Arsenic	**0.0010**		0.0010	0.00086	mg/L		02/20/24 05:27	02/22/24 16:57	1
Barium	<0.00089		0.010	0.00089	mg/L		02/20/24 05:27	02/22/24 16:57	1
Beryllium	**0.012**		0.0025	0.00020	mg/L		02/20/24 05:27	02/22/24 16:57	1
Boron	**5.6**		0.80	0.22	mg/L		02/20/24 05:27	02/22/24 15:48	10
Cadmium	**0.00042**	**J**	0.0025	0.000078	mg/L		02/20/24 05:27	02/22/24 16:57	1
Calcium	**210**		0.50	0.14	mg/L		02/20/24 05:27	02/22/24 16:57	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:27	02/22/24 16:57	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:27	02/22/24 16:57	1
Iron	<0.012		0.050	0.012	mg/L		02/20/24 05:27	02/22/24 16:57	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:27	02/22/24 16:57	1
Lithium	**0.15**		0.0050	0.0020	mg/L		02/20/24 05:27	02/22/24 16:57	1
Magnesium	**43**		0.50	0.023	mg/L		02/20/24 05:27	02/22/24 16:57	1
Manganese	**0.46**		0.0050	0.0022	mg/L		02/20/24 05:27	02/22/24 16:57	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:27	02/22/24 16:57	1
Potassium	**6.3**		0.50	0.044	mg/L		02/20/24 05:27	02/22/24 16:57	1

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

Job ID: 680-246862-1

Client Sample ID: WAN-WGWC-20

Lab Sample ID: 680-246862-6

Date Collected: 02/13/24 14:00
Matrix: Water
Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	**0.0035**	**J**	0.0050	0.00099	mg/L		02/20/24 05:27	02/22/24 16:57	1
Sodium	**47**		0.50	0.20	mg/L		02/20/24 05:27	02/22/24 16:57	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:27	02/22/24 16:57	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:00	02/21/24 18:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**9.9**		5.0	5.0	mg/L			02/19/24 22:08	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**9.9**		5.0	5.0	mg/L			02/19/24 22:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/19/24 22:08	1
Total Dissolved Solids (SM 2540C-2011)	**1200**		40	40	mg/L			02/19/24 10:58	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/19/24 12:23	1

Client Sample ID: WAN-WGWC-8

Lab Sample ID: 680-246862-7

Date Collected: 02/13/24 15:30
Matrix: Water
Date Received: 02/16/24 10:03

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88**		10	2.0	mg/L			02/29/24 16:51	10
Fluoride	<0.40		1.0	0.40	mg/L			02/29/24 16:51	10
Sulfate	**190**	***-**	10	4.0	mg/L			02/29/24 16:51	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:27	02/22/24 17:00	1
Arsenic	**0.0017**		0.0010	0.00086	mg/L		02/20/24 05:27	02/22/24 17:00	1
Barium	**0.0014**	**J**	0.010	0.00089	mg/L		02/20/24 05:27	02/22/24 17:00	1
Beryllium	**0.0027**		0.0025	0.00020	mg/L		02/20/24 05:27	02/22/24 17:00	1
Boron	**3.0**		0.80	0.22	mg/L		02/20/24 05:27	02/22/24 15:51	10
Cadmium	**0.00041**	**J**	0.0025	0.000078	mg/L		02/20/24 05:27	02/22/24 17:00	1
Calcium	**91**		0.50	0.14	mg/L		02/20/24 05:27	02/22/24 17:00	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:27	02/22/24 17:00	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:27	02/22/24 17:00	1
Iron	**0.019**	**J**	0.050	0.012	mg/L		02/20/24 05:27	02/22/24 17:00	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:27	02/22/24 17:00	1
Lithium	**0.012**		0.0050	0.0020	mg/L		02/20/24 05:27	02/22/24 17:00	1
Magnesium	**22**		0.50	0.023	mg/L		02/20/24 05:27	02/22/24 17:00	1
Manganese	**0.012**		0.0050	0.0022	mg/L		02/20/24 05:27	02/22/24 17:00	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:27	02/22/24 17:00	1
Potassium	**9.2**		0.50	0.044	mg/L		02/20/24 05:27	02/22/24 17:00	1
Selenium	**0.0070**		0.0050	0.00099	mg/L		02/20/24 05:27	02/22/24 17:00	1
Sodium	**35**		0.50	0.20	mg/L		02/20/24 05:27	02/22/24 17:00	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:27	02/22/24 17:00	1

Client Sample ID: WAN-WGWC-8

Lab Sample ID: 680-246862-7

Date Collected: 02/13/24 15:30

Matrix: Water

Date Received: 02/16/24 10:03

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:00	02/21/24 18:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/19/24 23:05	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/19/24 23:05	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/19/24 23:05	1
Total Dissolved Solids (SM 2540C-2011)	**620**		40	40	mg/L			02/19/24 10:58	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/19/24 12:23	1

Client Sample ID: WAN-AP1-FB-07

Lab Sample ID: 680-246862-8

Date Collected: 02/13/24 15:15

Matrix: Water

Date Received: 02/16/24 10:03

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/29/24 21:10	1
Fluoride	<0.040		0.10	0.040	mg/L			02/29/24 21:10	1
Sulfate	<0.40	*-	1.0	0.40	mg/L			02/29/24 21:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:27	02/22/24 15:54	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:27	02/22/24 15:54	1
Barium	<0.00089		0.010	0.00089	mg/L		02/20/24 05:27	02/22/24 15:54	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:27	02/22/24 15:54	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:27	02/22/24 15:54	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:27	02/22/24 15:54	1
Calcium	<0.14		0.50	0.14	mg/L		02/20/24 05:27	02/22/24 15:54	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:27	02/22/24 15:54	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:27	02/22/24 15:54	1
Iron	<0.012		0.050	0.012	mg/L		02/20/24 05:27	02/22/24 15:54	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:27	02/22/24 15:54	1
Lithium	**0.0028**	**J**	0.0050	0.0020	mg/L		02/20/24 05:27	02/22/24 15:54	1
Magnesium	<0.023		0.50	0.023	mg/L		02/20/24 05:27	02/22/24 15:54	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/20/24 05:27	02/22/24 15:54	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:27	02/22/24 15:54	1
Potassium	<0.044		0.50	0.044	mg/L		02/20/24 05:27	02/22/24 15:54	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:27	02/22/24 15:54	1
Sodium	<0.20		0.50	0.20	mg/L		02/20/24 05:27	02/22/24 15:54	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:27	02/22/24 15:54	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:00	02/21/24 18:56	1

Client Sample ID: WAN-AP1-FB-07

Lab Sample ID: 680-246862-8

Date Collected: 02/13/24 15:15

Matrix: Water

Date Received: 02/16/24 10:03

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/19/24 22:21	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/19/24 22:21	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/19/24 22:21	1
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/19/24 10:58	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/19/24 12:23	1

Client Sample ID: WAN-WGWA-7

Lab Sample ID: 680-246862-9

Date Collected: 02/13/24 16:20

Matrix: Water

Date Received: 02/16/24 10:03

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.6**		1.0	0.20	mg/L			02/29/24 22:18	1
Fluoride	<0.040		0.10	0.040	mg/L			02/29/24 22:18	1
Sulfate	**0.56**	**J *- F1**	1.0	0.40	mg/L			02/29/24 22:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:27	02/22/24 15:57	1
Arsenic	**0.00097**	**J**	0.0010	0.00086	mg/L		02/20/24 05:27	02/22/24 15:57	1
Barium	**0.0099**	**J**	0.010	0.00089	mg/L		02/20/24 05:27	02/22/24 15:57	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:27	02/22/24 15:57	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:27	02/22/24 15:57	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:27	02/22/24 15:57	1
Calcium	**11**		0.50	0.14	mg/L		02/20/24 05:27	02/22/24 15:57	1
Chromium	**0.049**		0.0020	0.0012	mg/L		02/20/24 05:27	02/22/24 15:57	1
Cobalt	**0.00044**	**J**	0.0025	0.00022	mg/L		02/20/24 05:27	02/22/24 15:57	1
Iron	**0.32**		0.050	0.012	mg/L		02/20/24 05:27	02/22/24 15:57	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:27	02/22/24 15:57	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/24 05:27	02/22/24 15:57	1
Magnesium	**0.63**		0.50	0.023	mg/L		02/20/24 05:27	02/22/24 15:57	1
Manganese	**0.090**		0.0050	0.0022	mg/L		02/20/24 05:27	02/22/24 15:57	1
Molybdenum	**0.0012**	**J**	0.015	0.00086	mg/L		02/20/24 05:27	02/22/24 15:57	1
Potassium	**1.6**		0.50	0.044	mg/L		02/20/24 05:27	02/22/24 15:57	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:27	02/22/24 15:57	1
Sodium	**2.6**		0.50	0.20	mg/L		02/20/24 05:27	02/22/24 15:57	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:27	02/22/24 15:57	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:00	02/21/24 18:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**37**		5.0	5.0	mg/L			02/19/24 22:29	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**37**		5.0	5.0	mg/L			02/19/24 22:29	1

Client Sample ID: WAN-WGWA-7

Lab Sample ID: 680-246862-9

Date Collected: 02/13/24 16:20

Matrix: Water

Date Received: 02/16/24 10:03

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/19/24 22:29	1
Total Dissolved Solids (SM 2540C-2011)	**51**		10	10	mg/L			02/19/24 10:58	1
Sulfide (SM 4500 S2 F-2011)	**1.7**		0.89	0.89	mg/L			02/19/24 12:23	1

Client Sample ID: WAN-WGWA-18

Lab Sample ID: 680-246862-10

Date Collected: 02/13/24 11:55

Matrix: Water

Date Received: 02/16/24 10:03

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.7**		1.0	0.20	mg/L			02/29/24 22:52	1
Fluoride	**0.076**	**J**	0.10	0.040	mg/L			02/29/24 22:52	1
Sulfate	**5.1**	***-**	1.0	0.40	mg/L			02/29/24 22:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:27	02/22/24 16:00	1
Arsenic	**0.00093**	**J**	0.0010	0.00086	mg/L		02/20/24 05:27	02/22/24 16:00	1
Barium	**0.013**		0.010	0.00089	mg/L		02/20/24 05:27	02/22/24 16:00	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:27	02/22/24 16:00	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:27	02/22/24 16:00	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:27	02/22/24 16:00	1
Calcium	**4.6**		0.50	0.14	mg/L		02/20/24 05:27	02/22/24 16:00	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:27	02/22/24 16:00	1
Cobalt	**0.00063**	**J**	0.0025	0.00022	mg/L		02/20/24 05:27	02/22/24 16:00	1
Iron	**0.11**		0.050	0.012	mg/L		02/20/24 05:27	02/22/24 16:00	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:27	02/22/24 16:00	1
Lithium	**0.0028**	**J**	0.0050	0.0020	mg/L		02/20/24 05:27	02/22/24 16:00	1
Magnesium	**1.1**		0.50	0.023	mg/L		02/20/24 05:27	02/22/24 16:00	1
Manganese	**0.079**		0.0050	0.0022	mg/L		02/20/24 05:27	02/22/24 16:00	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:27	02/22/24 16:00	1
Potassium	**2.2**		0.50	0.044	mg/L		02/20/24 05:27	02/22/24 16:00	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:27	02/22/24 16:00	1
Sodium	**3.4**		0.50	0.20	mg/L		02/20/24 05:27	02/22/24 16:00	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:27	02/22/24 16:00	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:00	02/21/24 19:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**16**		5.0	5.0	mg/L			02/19/24 23:13	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**16**		5.0	5.0	mg/L			02/19/24 23:13	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/19/24 23:13	1
Total Dissolved Solids (SM 2540C-2011)	**43**		10	10	mg/L			02/19/24 10:58	1

Client Sample ID: WAN-WGWA-18

Lab Sample ID: 680-246862-10

Date Collected: 02/13/24 11:55

Matrix: Water

Date Received: 02/16/24 10:03

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/20/24 13:13	1

Client Sample ID: WAN-AP1-FD-01

Lab Sample ID: 680-246862-11

Date Collected: 02/14/24 00:00

Matrix: Water

Date Received: 02/16/24 10:03

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.6**	**J**	5.0	1.0	mg/L			02/29/24 17:02	5
Fluoride	<0.20		0.50	0.20	mg/L			02/29/24 17:02	5
Sulfate	**9.0**	***-**	5.0	2.0	mg/L			02/29/24 17:02	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:27	02/22/24 16:08	1
Arsenic	**0.00091**	**J**	0.0010	0.00086	mg/L		02/20/24 05:27	02/22/24 16:08	1
Barium	**0.017**		0.010	0.00089	mg/L		02/20/24 05:27	02/22/24 16:08	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:27	02/22/24 16:08	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:27	02/22/24 16:08	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:27	02/22/24 16:08	1
Calcium	**13**		0.50	0.14	mg/L		02/20/24 05:27	02/22/24 16:08	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:27	02/22/24 16:08	1
Cobalt	**0.00049**	**J**	0.0025	0.00022	mg/L		02/20/24 05:27	02/22/24 16:08	1
Iron	**4.6**		0.050	0.012	mg/L		02/20/24 05:27	02/22/24 16:08	1
Lead	**0.00035**	**J**	0.0010	0.00021	mg/L		02/20/24 05:27	02/22/24 16:08	1
Lithium	**0.0051**		0.0050	0.0020	mg/L		02/20/24 05:27	02/22/24 16:08	1
Magnesium	**2.7**		0.50	0.023	mg/L		02/20/24 05:27	02/22/24 16:08	1
Manganese	**0.013**		0.0050	0.0022	mg/L		02/20/24 05:27	02/22/24 16:08	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:27	02/22/24 16:08	1
Potassium	**2.0**		0.50	0.044	mg/L		02/20/24 05:27	02/22/24 16:08	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:27	02/22/24 16:08	1
Sodium	**5.3**		0.50	0.20	mg/L		02/20/24 05:27	02/22/24 16:08	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:27	02/22/24 16:08	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:18	02/21/24 16:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**48**		5.0	5.0	mg/L			02/20/24 19:45	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**48**		5.0	5.0	mg/L			02/20/24 19:45	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/20/24 19:45	1
Total Dissolved Solids (SM 2540C-2011)	**93**		10	10	mg/L			02/19/24 10:58	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/21/24 11:43	1

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

Job ID: 680-246862-1

Client Sample ID: WAN-WGWC-9

Lab Sample ID: 680-246862-12

Date Collected: 02/14/24 13:45
Matrix: Water
Date Received: 02/16/24 10:03

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.2**		1.0	0.20	mg/L			02/29/24 23:03	1
Fluoride	**0.73**		0.10	0.040	mg/L			02/29/24 23:03	1
Sulfate	**37**	*-	1.0	0.40	mg/L			02/29/24 23:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.0063**		0.0020	0.00034	mg/L		02/20/24 05:27	02/22/24 16:17	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:27	02/22/24 16:17	1
Barium	<0.00089		0.010	0.00089	mg/L		02/20/24 05:27	02/22/24 16:17	1
Beryllium	**0.00037**	J	0.0025	0.00020	mg/L		02/20/24 05:27	02/22/24 16:17	1
Boron	**0.56**		0.080	0.022	mg/L		02/20/24 05:27	02/22/24 16:17	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:27	02/22/24 16:17	1
Calcium	**9.1**		0.50	0.14	mg/L		02/20/24 05:27	02/22/24 16:17	1
Chromium	**0.0020**		0.0020	0.0012	mg/L		02/20/24 05:27	02/22/24 16:17	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:27	02/22/24 16:17	1
Iron	**0.023**	J	0.050	0.012	mg/L		02/20/24 05:27	02/22/24 16:17	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:27	02/22/24 16:17	1
Lithium	**0.026**		0.0050	0.0020	mg/L		02/20/24 05:27	02/22/24 16:17	1
Magnesium	**2.4**		0.50	0.023	mg/L		02/20/24 05:27	02/22/24 16:17	1
Manganese	**0.013**		0.0050	0.0022	mg/L		02/20/24 05:27	02/22/24 16:17	1
Molybdenum	**0.0033**	J	0.015	0.00086	mg/L		02/20/24 05:27	02/22/24 16:17	1
Potassium	**1.4**		0.50	0.044	mg/L		02/20/24 05:27	02/22/24 16:17	1
Selenium	**0.0022**	J	0.0050	0.00099	mg/L		02/20/24 05:27	02/22/24 16:17	1
Sodium	**21**		0.50	0.20	mg/L		02/20/24 05:27	02/22/24 16:17	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:27	02/22/24 16:17	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:18	02/21/24 17:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**37**		5.0	5.0	mg/L			02/20/24 20:09	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**37**		5.0	5.0	mg/L			02/20/24 20:09	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/20/24 20:09	1
Total Dissolved Solids (SM 2540C-2011)	**150**		10	10	mg/L			02/19/24 10:58	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/21/24 11:43	1

Client Sample ID: WAN-WGWC-28D

Lab Sample ID: 680-246862-13

Date Collected: 02/14/24 12:20
Matrix: Water
Date Received: 02/16/24 10:03

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**520**		50	10	mg/L			02/29/24 17:13	50
Fluoride	<2.0		5.0	2.0	mg/L			02/29/24 17:13	50
Sulfate	**300**	*-	50	20	mg/L			02/29/24 17:13	50

Client Sample ID: WAN-WGWC-28D

Lab Sample ID: 680-246862-13

Date Collected: 02/14/24 12:20

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:27	02/22/24 17:03	1
Arsenic	**0.0022**		0.0010	0.00086	mg/L		02/20/24 05:27	02/22/24 17:03	1
Barium	**0.017**		0.010	0.00089	mg/L		02/20/24 05:27	02/22/24 17:03	1
Beryllium	**0.0019**	**J**	0.0025	0.00020	mg/L		02/20/24 05:27	02/22/24 17:03	1
Boron	**9.3**		0.80	0.22	mg/L		02/20/24 05:27	02/22/24 16:20	10
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:27	02/22/24 17:03	1
Calcium	**390**		0.50	0.14	mg/L		02/20/24 05:27	02/22/24 17:03	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:27	02/22/24 17:03	1
Cobalt	**0.00064**	**J**	0.0025	0.00022	mg/L		02/20/24 05:27	02/22/24 17:03	1
Iron	**2.7**		0.050	0.012	mg/L		02/20/24 05:27	02/22/24 17:03	1
Lead	**0.00022**	**J**	0.0010	0.00021	mg/L		02/20/24 05:27	02/22/24 17:03	1
Lithium	**0.21**		0.0050	0.0020	mg/L		02/20/24 05:27	02/22/24 17:03	1
Magnesium	**64**		0.50	0.023	mg/L		02/20/24 05:27	02/22/24 17:03	1
Manganese	**0.71**		0.0050	0.0022	mg/L		02/20/24 05:27	02/22/24 17:03	1
Molybdenum	**0.0094**	**J**	0.015	0.00086	mg/L		02/20/24 05:27	02/22/24 17:03	1
Potassium	**24**		0.50	0.044	mg/L		02/20/24 05:27	02/22/24 17:03	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:27	02/22/24 17:03	1
Sodium	**77**		0.50	0.20	mg/L		02/20/24 05:27	02/22/24 17:03	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:27	02/22/24 17:03	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:18	02/21/24 17:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**43**		5.0	5.0	mg/L			02/20/24 20:01	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**43**		5.0	5.0	mg/L			02/20/24 20:01	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/20/24 20:01	1
Total Dissolved Solids (SM 2540C-2011)	**1700**		40	40	mg/L			02/19/24 10:58	1
Sulfide (SM 4500 S2 F-2011)	**0.88**		0.81	0.81	mg/L			02/21/24 11:43	1

Client Sample ID: WAN-AP1-EB-01

Lab Sample ID: 680-246862-14

Date Collected: 02/14/24 12:50

Matrix: Water

Date Received: 02/16/24 10:03

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/29/24 23:14	1
Fluoride	<0.040		0.10	0.040	mg/L			02/29/24 23:14	1
Sulfate	<0.40	*-	1.0	0.40	mg/L			02/29/24 23:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:27	02/22/24 16:23	1
Arsenic	**0.00095**	**J**	0.0010	0.00086	mg/L		02/20/24 05:27	02/22/24 16:23	1
Barium	<0.00089		0.010	0.00089	mg/L		02/20/24 05:27	02/22/24 16:23	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:27	02/22/24 16:23	1

Client Sample ID: WAN-AP1-EB-01

Lab Sample ID: 680-246862-14

Date Collected: 02/14/24 12:50

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.027**	**J**	0.080	0.022	mg/L		02/20/24 05:27	02/22/24 16:23	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:27	02/22/24 16:23	1
Calcium	<0.14		0.50	0.14	mg/L		02/20/24 05:27	02/22/24 16:23	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:27	02/22/24 16:23	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:27	02/22/24 16:23	1
Iron	<0.012		0.050	0.012	mg/L		02/20/24 05:27	02/22/24 16:23	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:27	02/22/24 16:23	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/24 05:27	02/22/24 16:23	1
Magnesium	<0.023		0.50	0.023	mg/L		02/20/24 05:27	02/22/24 16:23	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/20/24 05:27	02/22/24 16:23	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:27	02/22/24 16:23	1
Potassium	<0.044		0.50	0.044	mg/L		02/20/24 05:27	02/22/24 16:23	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:27	02/22/24 16:23	1
Sodium	<0.20		0.50	0.20	mg/L		02/20/24 05:27	02/22/24 16:23	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:27	02/22/24 16:23	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:18	02/21/24 17:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/20/24 23:48	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/20/24 23:48	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/20/24 23:48	1
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/19/24 10:58	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/21/24 11:43	1

Client Sample ID: WAN-WGWC-24

Lab Sample ID: 680-246862-15

Date Collected: 02/14/24 15:30

Matrix: Water

Date Received: 02/16/24 10:03

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22**		5.0	1.0	mg/L			02/29/24 17:25	5
Fluoride	<0.20		0.50	0.20	mg/L			02/29/24 17:25	5
Sulfate	**55**	***-**	5.0	2.0	mg/L			02/29/24 17:25	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:27	02/22/24 16:26	1
Arsenic	**0.0012**		0.0010	0.00086	mg/L		02/20/24 05:27	02/22/24 16:26	1
Barium	**0.052**		0.010	0.00089	mg/L		02/20/24 05:27	02/22/24 16:26	1
Beryllium	**0.0065**		0.0025	0.00020	mg/L		02/20/24 05:27	02/22/24 16:26	1
Boron	**1.0**		0.080	0.022	mg/L		02/20/24 05:27	02/22/24 16:26	1
Cadmium	**0.00023**	**J**	0.0025	0.000078	mg/L		02/20/24 05:27	02/22/24 16:26	1
Calcium	**24**		0.50	0.14	mg/L		02/20/24 05:27	02/22/24 16:26	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:27	02/22/24 16:26	1

Client Sample ID: WAN-WGWC-24

Lab Sample ID: 680-246862-15

Date Collected: 02/14/24 15:30

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	**0.045**		0.0025	0.00022	mg/L		02/20/24 05:27	02/22/24 16:26	1
Iron	**0.012**	**J**	0.050	0.012	mg/L		02/20/24 05:27	02/22/24 16:26	1
Lead	**0.00037**	**J**	0.0010	0.00021	mg/L		02/20/24 05:27	02/22/24 16:26	1
Lithium	**0.0044**	**J**	0.0050	0.0020	mg/L		02/20/24 05:27	02/22/24 16:26	1
Magnesium	**5.4**		0.50	0.023	mg/L		02/20/24 05:27	02/22/24 16:26	1
Manganese	**1.6**		0.0050	0.0022	mg/L		02/20/24 05:27	02/22/24 16:26	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:27	02/22/24 16:26	1
Potassium	**7.5**		0.50	0.044	mg/L		02/20/24 05:27	02/22/24 16:26	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:27	02/22/24 16:26	1
Sodium	**9.1**		0.50	0.20	mg/L		02/20/24 05:27	02/22/24 16:26	1
Thallium	**0.00033**	**J**	0.0010	0.00026	mg/L		02/20/24 05:27	02/22/24 16:26	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:18	02/21/24 17:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/20/24 20:30	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/20/24 20:30	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/20/24 20:30	1
Total Dissolved Solids (SM 2540C-2011)	**180**		40	40	mg/L			02/20/24 14:24	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/21/24 11:43	1

Client Sample ID: WAN-WGWC-12

Lab Sample ID: 680-246862-16

Date Collected: 02/14/24 14:35

Matrix: Water

Date Received: 02/16/24 10:03

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.8**		1.0	0.20	mg/L			02/29/24 23:26	1
Fluoride	**0.044**	**J**	0.10	0.040	mg/L			02/29/24 23:26	1
Sulfate	**8.8**	***-**	1.0	0.40	mg/L			02/29/24 23:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:27	02/22/24 16:34	1
Arsenic	**0.0010**		0.0010	0.00086	mg/L		02/20/24 05:27	02/22/24 16:34	1
Barium	**0.017**		0.010	0.00089	mg/L		02/20/24 05:27	02/22/24 16:34	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:27	02/22/24 16:34	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:27	02/22/24 16:34	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:27	02/22/24 16:34	1
Calcium	**13**		0.50	0.14	mg/L		02/20/24 05:27	02/22/24 16:34	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:27	02/22/24 16:34	1
Cobalt	**0.00045**	**J**	0.0025	0.00022	mg/L		02/20/24 05:27	02/22/24 16:34	1
Iron	**1.8**		0.050	0.012	mg/L		02/20/24 05:27	02/22/24 16:34	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:27	02/22/24 16:34	1
Lithium	**0.0045**	**J**	0.0050	0.0020	mg/L		02/20/24 05:27	02/22/24 16:34	1

Client Sample ID: WAN-WGWC-12

Lab Sample ID: 680-246862-16

Date Collected: 02/14/24 14:35

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**2.8**		0.50	0.023	mg/L		02/20/24 05:27	02/22/24 16:34	1
Manganese	**0.016**		0.0050	0.0022	mg/L		02/20/24 05:27	02/22/24 16:34	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:27	02/22/24 16:34	1
Potassium	**2.1**		0.50	0.044	mg/L		02/20/24 05:27	02/22/24 16:34	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:27	02/22/24 16:34	1
Sodium	**5.6**		0.50	0.20	mg/L		02/20/24 05:27	02/22/24 16:34	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:27	02/22/24 16:34	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:18	02/21/24 17:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**48**		5.0	5.0	mg/L			02/20/24 20:26	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**48**		5.0	5.0	mg/L			02/20/24 20:26	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/20/24 20:26	1
Total Dissolved Solids (SM 2540C-2011)	**85**		10	10	mg/L			02/20/24 14:24	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/21/24 11:43	1

Client Sample ID: WAN-WGWC-22

Lab Sample ID: 680-246862-17

Date Collected: 02/14/24 11:40

Matrix: Water

Date Received: 02/16/24 10:03

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.1**		1.0	0.20	mg/L			02/29/24 23:37	1
Fluoride	**0.23**		0.10	0.040	mg/L			02/29/24 23:37	1
Sulfate	**64**	*-	1.0	0.40	mg/L			02/29/24 23:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00076**	J	0.0020	0.00034	mg/L		02/20/24 05:27	02/22/24 16:37	1
Arsenic	**0.0011**		0.0010	0.00086	mg/L		02/20/24 05:27	02/22/24 16:37	1
Barium	**0.041**		0.010	0.00089	mg/L		02/20/24 05:27	02/22/24 16:37	1
Beryllium	**0.00044**	J	0.0025	0.00020	mg/L		02/20/24 05:27	02/22/24 16:37	1
Boron	**0.33**		0.080	0.022	mg/L		02/20/24 05:27	02/22/24 16:37	1
Cadmium	**0.00013**	J	0.0025	0.000078	mg/L		02/20/24 05:27	02/22/24 16:37	1
Calcium	**21**		0.50	0.14	mg/L		02/20/24 05:27	02/22/24 16:37	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:27	02/22/24 16:37	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:27	02/22/24 16:37	1
Iron	**0.053**		0.050	0.012	mg/L		02/20/24 05:27	02/22/24 16:37	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:27	02/22/24 16:37	1
Lithium	**0.0028**	J	0.0050	0.0020	mg/L		02/20/24 05:27	02/22/24 16:37	1
Magnesium	**4.6**		0.50	0.023	mg/L		02/20/24 05:27	02/22/24 16:37	1
Manganese	**0.046**		0.0050	0.0022	mg/L		02/20/24 05:27	02/22/24 16:37	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:27	02/22/24 16:37	1
Potassium	**12**		0.50	0.044	mg/L		02/20/24 05:27	02/22/24 16:37	1

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

Job ID: 680-246862-1

Client Sample ID: WAN-WGWC-22
Date Collected: 02/14/24 11:40
Date Received: 02/16/24 10:03

Lab Sample ID: 680-246862-17
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	**0.0041**	**J**	0.0050	0.00099	mg/L		02/20/24 05:27	02/22/24 16:37	1
Sodium	**21**		0.50	0.20	mg/L		02/20/24 05:27	02/22/24 16:37	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:27	02/22/24 16:37	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:18	02/21/24 17:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**51**		5.0	5.0	mg/L			02/20/24 20:18	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**51**		5.0	5.0	mg/L			02/20/24 20:18	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/20/24 20:18	1
Total Dissolved Solids (SM 2540C-2011)	**210**		40	40	mg/L			02/20/24 14:24	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/21/24 11:43	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-825136/1002
Matrix: Water
Analysis Batch: 825136

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/29/24 11:14	1
Fluoride	<0.040		0.10	0.040	mg/L			02/29/24 11:14	1
Sulfate	<0.40		1.0	0.40	mg/L			02/29/24 11:14	1

Lab Sample ID: LCS 680-825136/4
Matrix: Water
Analysis Batch: 825136

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.71		mg/L		94	90 - 110		
Fluoride			1.00	0.935		mg/L		94	90 - 110		
Sulfate			20.0	17.8	*-	mg/L		89	90 - 110		

Lab Sample ID: LCSD 680-825136/5
Matrix: Water
Analysis Batch: 825136

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			5.00	4.72		mg/L		94	90 - 110	0	15
Fluoride			1.00	0.926		mg/L		93	90 - 110	1	15
Sulfate			20.0	17.6	*-	mg/L		88	90 - 110	1	15

Lab Sample ID: 680-246685-E-1 MS
Matrix: Water
Analysis Batch: 825136

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	240	F1	250	472		mg/L		92	80 - 120		
Fluoride	<2.0	F1	50.0	43.5		mg/L		87	80 - 120		
Sulfate	49	J *- F1	250	244	F1	mg/L		78	80 - 120		

Lab Sample ID: 680-246685-E-1 MSD
Matrix: Water
Analysis Batch: 825136

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	240	F1	250	421	F1	mg/L		72	80 - 120	11	15
Fluoride	<2.0	F1	50.0	39.1	F1	mg/L		78	80 - 120	11	15
Sulfate	49	J *- F1	250	219	F1	mg/L		68	80 - 120	11	15

Lab Sample ID: 752-16771-B-1 MS
Matrix: Water
Analysis Batch: 825136

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1.6		5.00	5.96		mg/L		87	80 - 120		
Fluoride	<0.040		1.00	0.855		mg/L		86	80 - 120		
Sulfate	9.2	*-	5.00	13.3		mg/L		83	80 - 120		

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 752-16771-B-1 MSD
Matrix: Water
Analysis Batch: 825136

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1.6		5.00	5.87		mg/L		85	80 - 120	1	15
Fluoride	<0.040		1.00	0.872		mg/L		87	80 - 120	2	15
Sulfate	9.2	*-	5.00	13.4		mg/L		83	80 - 120	0	15

Lab Sample ID: MB 680-825238/36
Matrix: Water
Analysis Batch: 825238

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/29/24 18:10	1
Fluoride	<0.040		0.10	0.040	mg/L			02/29/24 18:10	1
Sulfate	<0.40		1.0	0.40	mg/L			02/29/24 18:10	1

Lab Sample ID: LCS 680-825238/100
Matrix: Water
Analysis Batch: 825238

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.56		mg/L		91	90 - 110
Fluoride	1.00	0.918		mg/L		92	90 - 110
Sulfate	20.0	16.8	*-	mg/L		84	90 - 110

Lab Sample ID: LCSD 680-825238/99
Matrix: Water
Analysis Batch: 825238

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	5.00	4.63		mg/L		93	90 - 110	2	15
Fluoride	1.00	0.897		mg/L		90	90 - 110	2	15
Sulfate	20.0	17.1	*-	mg/L		86	90 - 110	2	15

Lab Sample ID: 680-246862-9 MS
Matrix: Water
Analysis Batch: 825238

Client Sample ID: WAN-WGWA-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1.6		5.00	5.90		mg/L		87	80 - 120
Fluoride	<0.040		1.00	0.861		mg/L		86	80 - 120
Sulfate	0.56	J *- F1	5.00	4.26	F1	mg/L		74	80 - 120

Lab Sample ID: 680-246862-9 MSD
Matrix: Water
Analysis Batch: 825238

Client Sample ID: WAN-WGWA-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1.6		5.00	5.66		mg/L		82	80 - 120	4	15
Fluoride	<0.040		1.00	0.828		mg/L		83	80 - 120	4	15
Sulfate	0.56	J *- F1	5.00	4.15	F1	mg/L		72	80 - 120	3	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-823457/1-A
Matrix: Water
Analysis Batch: 824202

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 823457

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:27	02/22/24 14:53	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:27	02/22/24 14:53	1
Barium	<0.00089		0.010	0.00089	mg/L		02/20/24 05:27	02/22/24 14:53	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:27	02/22/24 14:53	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:27	02/22/24 14:53	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:27	02/22/24 14:53	1
Calcium	<0.14		0.50	0.14	mg/L		02/20/24 05:27	02/22/24 14:53	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:27	02/22/24 14:53	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:27	02/22/24 14:53	1
Iron	<0.012		0.050	0.012	mg/L		02/20/24 05:27	02/22/24 14:53	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:27	02/22/24 14:53	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/24 05:27	02/22/24 14:53	1
Magnesium	<0.023		0.50	0.023	mg/L		02/20/24 05:27	02/22/24 14:53	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/20/24 05:27	02/22/24 14:53	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:27	02/22/24 14:53	1
Potassium	<0.044		0.50	0.044	mg/L		02/20/24 05:27	02/22/24 14:53	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:27	02/22/24 14:53	1
Sodium	<0.20		0.50	0.20	mg/L		02/20/24 05:27	02/22/24 14:53	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:27	02/22/24 14:53	1

Lab Sample ID: LCS 680-823457/2-A
Matrix: Water
Analysis Batch: 824202

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 823457

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0502		mg/L		100	80 - 120
Arsenic	0.100	0.0973		mg/L		97	80 - 120
Barium	0.100	0.0989		mg/L		99	80 - 120
Beryllium	0.0500	0.0516		mg/L		103	80 - 120
Boron	0.400	0.391		mg/L		98	80 - 120
Cadmium	0.0500	0.0516		mg/L		103	80 - 120
Calcium	5.00	4.83		mg/L		97	80 - 120
Chromium	0.100	0.101		mg/L		100	80 - 120
Cobalt	0.0500	0.0513		mg/L		103	80 - 120
Iron	4.99	4.85		mg/L		97	80 - 120
Lead	0.500	0.464		mg/L		93	80 - 120
Lithium	0.500	0.476		mg/L		95	80 - 120
Magnesium	5.00	4.79		mg/L		96	80 - 120
Manganese	0.400	0.378		mg/L		94	80 - 120
Molybdenum	0.100	0.0941		mg/L		94	80 - 120
Potassium	7.00	6.86		mg/L		98	80 - 120
Selenium	0.100	0.0971		mg/L		97	80 - 120
Sodium	5.03	4.72		mg/L		94	80 - 120
Thallium	0.0500	0.0497		mg/L		99	80 - 120

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

Lab Sample ID: 680-246862-1 MS
Matrix: Water
Analysis Batch: 824202

Client Sample ID: WAN-WGWA-1
Prep Type: Total Recoverable
Prep Batch: 823457

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00034		0.0500	0.0554		mg/L		111	75 - 125
Arsenic	<0.00086		0.100	0.106		mg/L		106	75 - 125
Barium	0.047		0.100	0.155		mg/L		108	75 - 125
Beryllium	<0.00020		0.0500	0.0554		mg/L		111	75 - 125
Boron	<0.022		0.400	0.430		mg/L		108	75 - 125
Cadmium	<0.000078		0.0500	0.0572		mg/L		114	75 - 125
Calcium	1.3		5.00	6.53		mg/L		104	75 - 125
Chromium	<0.0012		0.100	0.111		mg/L		111	75 - 125
Cobalt	0.00064	J	0.0500	0.0564		mg/L		112	75 - 125
Iron	0.020	J	4.99	5.25		mg/L		105	75 - 125
Lead	<0.00021		0.500	0.508		mg/L		102	75 - 125
Lithium	0.0049	J	0.500	0.524		mg/L		104	75 - 125
Magnesium	1.1		5.00	6.26		mg/L		103	75 - 125
Manganese	0.0084		0.400	0.422		mg/L		103	75 - 125
Molybdenum	<0.00086		0.100	0.103		mg/L		103	75 - 125
Potassium	1.2		7.00	8.61		mg/L		105	75 - 125
Selenium	<0.00099		0.100	0.106		mg/L		106	75 - 125
Sodium	3.2		5.03	8.23		mg/L		100	75 - 125
Thallium	<0.00026		0.0500	0.0551		mg/L		110	75 - 125

Lab Sample ID: 680-246862-1 MSD
Matrix: Water
Analysis Batch: 824202

Client Sample ID: WAN-WGWA-1
Prep Type: Total Recoverable
Prep Batch: 823457

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00034		0.0500	0.0511		mg/L		102	75 - 125	8	20
Arsenic	<0.00086		0.100	0.0977		mg/L		98	75 - 125	8	20
Barium	0.047		0.100	0.145		mg/L		98	75 - 125	7	20
Beryllium	<0.00020		0.0500	0.0522		mg/L		104	75 - 125	6	20
Boron	<0.022		0.400	0.410		mg/L		103	75 - 125	5	20
Cadmium	<0.000078		0.0500	0.0530		mg/L		106	75 - 125	8	20
Calcium	1.3		5.00	6.14		mg/L		97	75 - 125	6	20
Chromium	<0.0012		0.100	0.104		mg/L		104	75 - 125	6	20
Cobalt	0.00064	J	0.0500	0.0523		mg/L		103	75 - 125	8	20
Iron	0.020	J	4.99	4.87		mg/L		97	75 - 125	8	20
Lead	<0.00021		0.500	0.474		mg/L		95	75 - 125	7	20
Lithium	0.0049	J	0.500	0.490		mg/L		97	75 - 125	7	20
Magnesium	1.1		5.00	5.84		mg/L		95	75 - 125	7	20
Manganese	0.0084		0.400	0.392		mg/L		96	75 - 125	7	20
Molybdenum	<0.00086		0.100	0.0958		mg/L		96	75 - 125	7	20
Potassium	1.2		7.00	8.03		mg/L		97	75 - 125	7	20
Selenium	<0.00099		0.100	0.0967		mg/L		97	75 - 125	9	20
Sodium	3.2		5.03	7.70		mg/L		89	75 - 125	7	20
Thallium	<0.00026		0.0500	0.0508		mg/L		102	75 - 125	8	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-823633/1-A
Matrix: Water
Analysis Batch: 824013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 823633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:00	02/21/24 18:00	1

Lab Sample ID: LCS 680-823633/2-A
Matrix: Water
Analysis Batch: 824013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 823633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00250	0.00254		mg/L		102	80 - 120

Lab Sample ID: 400-250690-H-2-D MS
Matrix: Water
Analysis Batch: 824013

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 823633

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000080		0.00100	0.00107		mg/L		107	80 - 120

Lab Sample ID: 400-250690-H-2-E MSD
Matrix: Water
Analysis Batch: 824013

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 823633

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000080		0.00100	0.00112		mg/L		112	80 - 120	4	20

Lab Sample ID: MB 680-823643/1-A
Matrix: Water
Analysis Batch: 823946

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 823643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:18	02/21/24 16:54	1

Lab Sample ID: LCS 680-823643/2-A
Matrix: Water
Analysis Batch: 823946

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 823643

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: 680-246862-11 MS
Matrix: Water
Analysis Batch: 823946

Client Sample ID: WAN-AP1-FD-01
Prep Type: Total/NA
Prep Batch: 823643

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000080		0.00100	0.00102		mg/L		102	80 - 120

Lab Sample ID: 680-246862-11 MSD
Matrix: Water
Analysis Batch: 823946

Client Sample ID: WAN-AP1-FD-01
Prep Type: Total/NA
Prep Batch: 823643

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000080		0.00100	0.00106		mg/L		106	80 - 120	4	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-823597/4
Matrix: Water
Analysis Batch: 823597

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	<5.0		5.0	5.0	mg/L			02/19/24 15:10	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/19/24 15:10	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/19/24 15:10	1

Lab Sample ID: LCS 680-823597/6
Matrix: Water
Analysis Batch: 823597

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	250	249		mg/L		100	90 - 112

Lab Sample ID: LCSD 680-823597/31
Matrix: Water
Analysis Batch: 823597

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3	250	250		mg/L		100	90 - 112	1	30

Lab Sample ID: 680-246671-B-1 DU
Matrix: Water
Analysis Batch: 823597

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3	520		518		mg/L		0.3	30
Bicarbonate Alkalinity as CaCO3	520		518		mg/L		0.3	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

Lab Sample ID: MB 680-823604/4
Matrix: Water
Analysis Batch: 823604

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	<5.0		5.0	5.0	mg/L			02/19/24 21:44	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/19/24 21:44	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/19/24 21:44	1

Lab Sample ID: LCS 680-823604/6
Matrix: Water
Analysis Batch: 823604

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	250	248		mg/L		99	90 - 112

Lab Sample ID: LCSD 680-823604/31
Matrix: Water
Analysis Batch: 823604

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3	250	252		mg/L		101	90 - 112	2	30

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: 680-246862-6 DU
Matrix: Water
Analysis Batch: 823604

Client Sample ID: WAN-WGWC-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3	9.9			8.37		mg/L				17	30
Bicarbonate Alkalinity as CaCO3	9.9			8.37		mg/L				17	30
Carbonate Alkalinity as CaCO3	<5.0			<5.0		mg/L				NC	30

Lab Sample ID: MB 680-823723/4
Matrix: Water
Analysis Batch: 823723

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	<5.0		5.0	5.0	mg/L			02/20/24 16:49	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/20/24 16:49	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/20/24 16:49	1

Lab Sample ID: LCS 680-823723/6
Matrix: Water
Analysis Batch: 823723

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			250	245		mg/L		98	90 - 112		

Lab Sample ID: LCSD 680-823723/31
Matrix: Water
Analysis Batch: 823723

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3			250	250		mg/L		100	90 - 112	2	30

Lab Sample ID: 680-246862-11 DU
Matrix: Water
Analysis Batch: 823723

Client Sample ID: WAN-AP1-FD-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3	48			44.7		mg/L				7	30
Bicarbonate Alkalinity as CaCO3	48			44.7		mg/L				7	30
Carbonate Alkalinity as CaCO3	<5.0			<5.0		mg/L				NC	30

Lab Sample ID: MB 680-823729/4
Matrix: Water
Analysis Batch: 823729

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	<5.0		5.0	5.0	mg/L			02/20/24 22:44	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/20/24 22:44	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/20/24 22:44	1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 680-823729/6
Matrix: Water
Analysis Batch: 823729

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			250	247		mg/L		99	90 - 112		

Lab Sample ID: LCSD 680-823729/31
Matrix: Water
Analysis Batch: 823729

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3			250	250		mg/L		100	90 - 112	1	30

Lab Sample ID: 752-16772-B-1 DU
Matrix: Water
Analysis Batch: 823729

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3	53			47.3		mg/L				12	30
Bicarbonate Alkalinity as CaCO3	53			47.3		mg/L				12	30
Carbonate Alkalinity as CaCO3	<5.0			<5.0		mg/L				NC	30

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-823340/1
Matrix: Water
Analysis Batch: 823340

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			02/19/24 10:58	1

Lab Sample ID: LCS 680-823340/2
Matrix: Water
Analysis Batch: 823340

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			2410	2440		mg/L		101	80 - 120		

Lab Sample ID: LCSD 680-823340/3
Matrix: Water
Analysis Batch: 823340

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			2410	2400		mg/L		100	80 - 120	2	25

Lab Sample ID: 680-246862-6 DU
Matrix: Water
Analysis Batch: 823340

Client Sample ID: WAN-WGWC-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	1200			1210		mg/L				2	5

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: MB 680-823618/1
Matrix: Water
Analysis Batch: 823618

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			02/20/24 14:24	1

Lab Sample ID: LCS 680-823618/2
Matrix: Water
Analysis Batch: 823618

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			2410	2440		mg/L		101	80 - 120		

Lab Sample ID: LCSD 680-823618/3
Matrix: Water
Analysis Batch: 823618

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			2410	2410		mg/L		100	80 - 120	1	25

Lab Sample ID: 680-246862-15 DU
Matrix: Water
Analysis Batch: 823618

Client Sample ID: WAN-WGWC-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	180			184		mg/L				2	5

Lab Sample ID: 680-246862-17 DU
Matrix: Water
Analysis Batch: 823618

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

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	210			178	F5	mg/L				16	5

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-823366/1
Matrix: Water
Analysis Batch: 823366

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			02/19/24 12:23	1

Lab Sample ID: LCS 680-823366/2
Matrix: Water
Analysis Batch: 823366

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.87		mg/L		99	75 - 125		

Method: 4500 S2 F-2011 - Sulfide, Total (Continued)

Lab Sample ID: LCSD 680-823366/3
Matrix: Water
Analysis Batch: 823366

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
Sulfide			10.0	9.98		mg/L		100	75 - 125	1	30

Lab Sample ID: 680-246862-3 MS
Matrix: Water
Analysis Batch: 823366

Client Sample ID: WAN-WGWA-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	0.81	F1	6.94	5.69	F1	mg/L		70	75 - 125

Lab Sample ID: 680-246862-3 MSD
Matrix: Water
Analysis Batch: 823366

Client Sample ID: WAN-WGWA-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	0.81	F1	6.94	5.69	F1	mg/L		70	75 - 125	0	30

Lab Sample ID: 680-246862-2 DU
Matrix: Water
Analysis Batch: 823366

Client Sample ID: WAN-WGWA-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	<0.81		1.37		mg/L		NC	30

Lab Sample ID: MB 680-823609/1
Matrix: Water
Analysis Batch: 823609

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			02/20/24 13:13	1

Lab Sample ID: LCS 680-823609/2
Matrix: Water
Analysis Batch: 823609

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide			10.0	9.30		mg/L		93	75 - 125

Lab Sample ID: LCSD 680-823609/3
Matrix: Water
Analysis Batch: 823609

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
Sulfide			10.0	8.95		mg/L		90	75 - 125	4	30

Lab Sample ID: 680-246737-B-3 MS
Matrix: Water
Analysis Batch: 823609

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<0.81		6.50	7.76		mg/L		119	75 - 125

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: 680-246737-B-3 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 823609

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.81		6.50	7.76		mg/L		119	75 - 125	0	30

Lab Sample ID: 680-246737-B-1 DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 823609

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	<0.81		1.31		mg/L		NC	30

Lab Sample ID: MB 680-823768/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 823768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			02/21/24 11:43	1

Lab Sample ID: LCS 680-823768/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 823768

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	10.0	9.62		mg/L		96	75 - 125

Lab Sample ID: LCSD 680-823768/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 823768

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	10.0	10.1		mg/L		101	75 - 125	5	30

Lab Sample ID: 680-246808-G-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 823768

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	17	F1	6.50	22.2	F1	mg/L		74	75 - 125

Lab Sample ID: 680-246808-G-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 823768

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	17	F1	6.50	22.2	F1	mg/L		74	75 - 125	0	30

Lab Sample ID: 680-246750-F-12 DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 823768

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	<0.89		<0.89		mg/L		NC	30

HPLC/IC

Analysis Batch: 825136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-6	WAN-WGWC-20	Total/NA	Water	300.0-1993 R2.1	
680-246862-7	WAN-WGWC-8	Total/NA	Water	300.0-1993 R2.1	
680-246862-11	WAN-AP1-FD-01	Total/NA	Water	300.0-1993 R2.1	
680-246862-13	WAN-WGWC-28D	Total/NA	Water	300.0-1993 R2.1	
680-246862-15	WAN-WGWC-24	Total/NA	Water	300.0-1993 R2.1	
MB 680-825136/1002	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-825136/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-825136/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-246685-E-1 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-246685-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	
752-16771-B-1 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
752-16771-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 825238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-1	WAN-WGWA-1	Total/NA	Water	300.0-1993 R2.1	
680-246862-2	WAN-WGWA-2	Total/NA	Water	300.0-1993 R2.1	
680-246862-3	WAN-WGWA-3	Total/NA	Water	300.0-1993 R2.1	
680-246862-4	WAN-WGWA-4	Total/NA	Water	300.0-1993 R2.1	
680-246862-5	WAN-WGWA-6	Total/NA	Water	300.0-1993 R2.1	
680-246862-8	WAN-AP1-FB-07	Total/NA	Water	300.0-1993 R2.1	
680-246862-9	WAN-WGWA-7	Total/NA	Water	300.0-1993 R2.1	
680-246862-10	WAN-WGWA-18	Total/NA	Water	300.0-1993 R2.1	
680-246862-12	WAN-WGWC-9	Total/NA	Water	300.0-1993 R2.1	
680-246862-14	WAN-AP1-EB-01	Total/NA	Water	300.0-1993 R2.1	
680-246862-16	WAN-WGWC-12	Total/NA	Water	300.0-1993 R2.1	
680-246862-17	WAN-WGWC-22	Total/NA	Water	300.0-1993 R2.1	
MB 680-825238/36	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-825238/100	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-825238/99	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-246862-9 MS	WAN-WGWA-7	Total/NA	Water	300.0-1993 R2.1	
680-246862-9 MSD	WAN-WGWA-7	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 823457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-1	WAN-WGWA-1	Total Recoverable	Water	3005A	
680-246862-2	WAN-WGWA-2	Total Recoverable	Water	3005A	
680-246862-3	WAN-WGWA-3	Total Recoverable	Water	3005A	
680-246862-4	WAN-WGWA-4	Total Recoverable	Water	3005A	
680-246862-5	WAN-WGWA-6	Total Recoverable	Water	3005A	
680-246862-6	WAN-WGWC-20	Total Recoverable	Water	3005A	
680-246862-7	WAN-WGWC-8	Total Recoverable	Water	3005A	
680-246862-8	WAN-AP1-FB-07	Total Recoverable	Water	3005A	
680-246862-9	WAN-WGWA-7	Total Recoverable	Water	3005A	
680-246862-10	WAN-WGWA-18	Total Recoverable	Water	3005A	
680-246862-11	WAN-AP1-FD-01	Total Recoverable	Water	3005A	
680-246862-12	WAN-WGWC-9	Total Recoverable	Water	3005A	
680-246862-13	WAN-WGWC-28D	Total Recoverable	Water	3005A	
680-246862-14	WAN-AP1-EB-01	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 823457 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-15	WAN-WGWC-24	Total Recoverable	Water	3005A	
680-246862-16	WAN-WGWC-12	Total Recoverable	Water	3005A	
680-246862-17	WAN-WGWC-22	Total Recoverable	Water	3005A	
MB 680-823457/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-823457/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-246862-1 MS	WAN-WGWA-1	Total Recoverable	Water	3005A	
680-246862-1 MSD	WAN-WGWA-1	Total Recoverable	Water	3005A	

Prep Batch: 823633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-1	WAN-WGWA-1	Total/NA	Water	7470A	
680-246862-2	WAN-WGWA-2	Total/NA	Water	7470A	
680-246862-3	WAN-WGWA-3	Total/NA	Water	7470A	
680-246862-4	WAN-WGWA-4	Total/NA	Water	7470A	
680-246862-5	WAN-WGWA-6	Total/NA	Water	7470A	
680-246862-6	WAN-WGWC-20	Total/NA	Water	7470A	
680-246862-7	WAN-WGWC-8	Total/NA	Water	7470A	
680-246862-8	WAN-AP1-FB-07	Total/NA	Water	7470A	
680-246862-9	WAN-WGWA-7	Total/NA	Water	7470A	
680-246862-10	WAN-WGWA-18	Total/NA	Water	7470A	
MB 680-823633/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-823633/2-A	Lab Control Sample	Total/NA	Water	7470A	
400-250690-H-2-D MS	Matrix Spike	Total/NA	Water	7470A	
400-250690-H-2-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 823643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-11	WAN-AP1-FD-01	Total/NA	Water	7470A	
680-246862-12	WAN-WGWC-9	Total/NA	Water	7470A	
680-246862-13	WAN-WGWC-28D	Total/NA	Water	7470A	
680-246862-14	WAN-AP1-EB-01	Total/NA	Water	7470A	
680-246862-15	WAN-WGWC-24	Total/NA	Water	7470A	
680-246862-16	WAN-WGWC-12	Total/NA	Water	7470A	
680-246862-17	WAN-WGWC-22	Total/NA	Water	7470A	
MB 680-823643/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-823643/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-246862-11 MS	WAN-AP1-FD-01	Total/NA	Water	7470A	
680-246862-11 MSD	WAN-AP1-FD-01	Total/NA	Water	7470A	

Analysis Batch: 823946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-11	WAN-AP1-FD-01	Total/NA	Water	7470A	823643
680-246862-12	WAN-WGWC-9	Total/NA	Water	7470A	823643
680-246862-13	WAN-WGWC-28D	Total/NA	Water	7470A	823643
680-246862-14	WAN-AP1-EB-01	Total/NA	Water	7470A	823643
680-246862-15	WAN-WGWC-24	Total/NA	Water	7470A	823643
680-246862-16	WAN-WGWC-12	Total/NA	Water	7470A	823643
680-246862-17	WAN-WGWC-22	Total/NA	Water	7470A	823643
MB 680-823643/1-A	Method Blank	Total/NA	Water	7470A	823643
LCS 680-823643/2-A	Lab Control Sample	Total/NA	Water	7470A	823643
680-246862-11 MS	WAN-AP1-FD-01	Total/NA	Water	7470A	823643

Metals (Continued)

Analysis Batch: 823946 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-11 MSD	WAN-AP1-FD-01	Total/NA	Water	7470A	823643

Analysis Batch: 824013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-1	WAN-WGWA-1	Total/NA	Water	7470A	823633
680-246862-2	WAN-WGWA-2	Total/NA	Water	7470A	823633
680-246862-3	WAN-WGWA-3	Total/NA	Water	7470A	823633
680-246862-4	WAN-WGWA-4	Total/NA	Water	7470A	823633
680-246862-5	WAN-WGWA-6	Total/NA	Water	7470A	823633
680-246862-6	WAN-WGWC-20	Total/NA	Water	7470A	823633
680-246862-7	WAN-WGWC-8	Total/NA	Water	7470A	823633
680-246862-8	WAN-AP1-FB-07	Total/NA	Water	7470A	823633
680-246862-9	WAN-WGWA-7	Total/NA	Water	7470A	823633
680-246862-10	WAN-WGWA-18	Total/NA	Water	7470A	823633
MB 680-823633/1-A	Method Blank	Total/NA	Water	7470A	823633
LCS 680-823633/2-A	Lab Control Sample	Total/NA	Water	7470A	823633
400-250690-H-2-D MS	Matrix Spike	Total/NA	Water	7470A	823633
400-250690-H-2-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	823633

Analysis Batch: 824202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-1	WAN-WGWA-1	Total Recoverable	Water	6020B	823457
680-246862-2	WAN-WGWA-2	Total Recoverable	Water	6020B	823457
680-246862-3	WAN-WGWA-3	Total Recoverable	Water	6020B	823457
680-246862-4	WAN-WGWA-4	Total Recoverable	Water	6020B	823457
680-246862-5	WAN-WGWA-6	Total Recoverable	Water	6020B	823457
680-246862-6	WAN-WGWC-20	Total Recoverable	Water	6020B	823457
680-246862-6	WAN-WGWC-20	Total Recoverable	Water	6020B	823457
680-246862-7	WAN-WGWC-8	Total Recoverable	Water	6020B	823457
680-246862-7	WAN-WGWC-8	Total Recoverable	Water	6020B	823457
680-246862-8	WAN-AP1-FB-07	Total Recoverable	Water	6020B	823457
680-246862-9	WAN-WGWA-7	Total Recoverable	Water	6020B	823457
680-246862-10	WAN-WGWA-18	Total Recoverable	Water	6020B	823457
680-246862-11	WAN-AP1-FD-01	Total Recoverable	Water	6020B	823457
680-246862-12	WAN-WGWC-9	Total Recoverable	Water	6020B	823457
680-246862-13	WAN-WGWC-28D	Total Recoverable	Water	6020B	823457
680-246862-13	WAN-WGWC-28D	Total Recoverable	Water	6020B	823457
680-246862-14	WAN-AP1-EB-01	Total Recoverable	Water	6020B	823457
680-246862-15	WAN-WGWC-24	Total Recoverable	Water	6020B	823457
680-246862-16	WAN-WGWC-12	Total Recoverable	Water	6020B	823457
680-246862-17	WAN-WGWC-22	Total Recoverable	Water	6020B	823457
MB 680-823457/1-A	Method Blank	Total Recoverable	Water	6020B	823457
LCS 680-823457/2-A	Lab Control Sample	Total Recoverable	Water	6020B	823457
680-246862-1 MS	WAN-WGWA-1	Total Recoverable	Water	6020B	823457
680-246862-1 MSD	WAN-WGWA-1	Total Recoverable	Water	6020B	823457

General Chemistry

Analysis Batch: 823340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-1	WAN-WGWA-1	Total/NA	Water	2540C-2011	

General Chemistry (Continued)

Analysis Batch: 823340 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-2	WAN-WGWA-2	Total/NA	Water	2540C-2011	
680-246862-3	WAN-WGWA-3	Total/NA	Water	2540C-2011	
680-246862-4	WAN-WGWA-4	Total/NA	Water	2540C-2011	
680-246862-5	WAN-WGWA-6	Total/NA	Water	2540C-2011	
680-246862-6	WAN-WGWC-20	Total/NA	Water	2540C-2011	
680-246862-7	WAN-WGWC-8	Total/NA	Water	2540C-2011	
680-246862-8	WAN-AP1-FB-07	Total/NA	Water	2540C-2011	
680-246862-9	WAN-WGWA-7	Total/NA	Water	2540C-2011	
680-246862-10	WAN-WGWA-18	Total/NA	Water	2540C-2011	
680-246862-11	WAN-AP1-FD-01	Total/NA	Water	2540C-2011	
680-246862-12	WAN-WGWC-9	Total/NA	Water	2540C-2011	
680-246862-13	WAN-WGWC-28D	Total/NA	Water	2540C-2011	
680-246862-14	WAN-AP1-EB-01	Total/NA	Water	2540C-2011	
MB 680-823340/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-823340/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-823340/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-246862-6 DU	WAN-WGWC-20	Total/NA	Water	2540C-2011	

Analysis Batch: 823366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-1	WAN-WGWA-1	Total/NA	Water	4500 S2 F-2011	
680-246862-2	WAN-WGWA-2	Total/NA	Water	4500 S2 F-2011	
680-246862-3	WAN-WGWA-3	Total/NA	Water	4500 S2 F-2011	
680-246862-4	WAN-WGWA-4	Total/NA	Water	4500 S2 F-2011	
680-246862-5	WAN-WGWA-6	Total/NA	Water	4500 S2 F-2011	
680-246862-6	WAN-WGWC-20	Total/NA	Water	4500 S2 F-2011	
680-246862-7	WAN-WGWC-8	Total/NA	Water	4500 S2 F-2011	
680-246862-8	WAN-AP1-FB-07	Total/NA	Water	4500 S2 F-2011	
680-246862-9	WAN-WGWA-7	Total/NA	Water	4500 S2 F-2011	
MB 680-823366/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-823366/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-823366/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-246862-3 MS	WAN-WGWA-3	Total/NA	Water	4500 S2 F-2011	
680-246862-3 MSD	WAN-WGWA-3	Total/NA	Water	4500 S2 F-2011	
680-246862-2 DU	WAN-WGWA-2	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 823597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-1	WAN-WGWA-1	Total/NA	Water	2320B-2011	
680-246862-2	WAN-WGWA-2	Total/NA	Water	2320B-2011	
MB 680-823597/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-823597/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-823597/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-246671-B-1 DU	Duplicate	Total/NA	Water	2320B-2011	

Analysis Batch: 823604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-3	WAN-WGWA-3	Total/NA	Water	2320B-2011	
680-246862-4	WAN-WGWA-4	Total/NA	Water	2320B-2011	
680-246862-5	WAN-WGWA-6	Total/NA	Water	2320B-2011	
680-246862-6	WAN-WGWC-20	Total/NA	Water	2320B-2011	

General Chemistry (Continued)

Analysis Batch: 823604 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-7	WAN-WGWC-8	Total/NA	Water	2320B-2011	
680-246862-8	WAN-AP1-FB-07	Total/NA	Water	2320B-2011	
680-246862-9	WAN-WGWA-7	Total/NA	Water	2320B-2011	
680-246862-10	WAN-WGWA-18	Total/NA	Water	2320B-2011	
MB 680-823604/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-823604/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-823604/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-246862-6 DU	WAN-WGWC-20	Total/NA	Water	2320B-2011	

Analysis Batch: 823609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-10	WAN-WGWA-18	Total/NA	Water	4500 S2 F-2011	
MB 680-823609/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-823609/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-823609/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-246737-B-3 MS	Matrix Spike	Total/NA	Water	4500 S2 F-2011	
680-246737-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	4500 S2 F-2011	
680-246737-B-1 DU	Duplicate	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 823618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-15	WAN-WGWC-24	Total/NA	Water	2540C-2011	
680-246862-16	WAN-WGWC-12	Total/NA	Water	2540C-2011	
680-246862-17	WAN-WGWC-22	Total/NA	Water	2540C-2011	
MB 680-823618/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-823618/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-823618/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-246862-15 DU	WAN-WGWC-24	Total/NA	Water	2540C-2011	
680-246862-17 DU	WAN-WGWC-22	Total/NA	Water	2540C-2011	

Analysis Batch: 823723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-11	WAN-AP1-FD-01	Total/NA	Water	2320B-2011	
680-246862-12	WAN-WGWC-9	Total/NA	Water	2320B-2011	
680-246862-13	WAN-WGWC-28D	Total/NA	Water	2320B-2011	
680-246862-15	WAN-WGWC-24	Total/NA	Water	2320B-2011	
680-246862-16	WAN-WGWC-12	Total/NA	Water	2320B-2011	
680-246862-17	WAN-WGWC-22	Total/NA	Water	2320B-2011	
MB 680-823723/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-823723/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-823723/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-246862-11 DU	WAN-AP1-FD-01	Total/NA	Water	2320B-2011	

Analysis Batch: 823729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-14	WAN-AP1-EB-01	Total/NA	Water	2320B-2011	
MB 680-823729/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-823729/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-823729/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
752-16772-B-1 DU	Duplicate	Total/NA	Water	2320B-2011	

QC Association Summary

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

Job ID: 680-246862-1

General Chemistry

Analysis Batch: 823768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-11	WAN-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
680-246862-12	WAN-WGWC-9	Total/NA	Water	4500 S2 F-2011	
680-246862-13	WAN-WGWC-28D	Total/NA	Water	4500 S2 F-2011	
680-246862-14	WAN-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
680-246862-15	WAN-WGWC-24	Total/NA	Water	4500 S2 F-2011	
680-246862-16	WAN-WGWC-12	Total/NA	Water	4500 S2 F-2011	
680-246862-17	WAN-WGWC-22	Total/NA	Water	4500 S2 F-2011	
MB 680-823768/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-823768/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-823768/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-246808-G-1 MS	Matrix Spike	Total/NA	Water	4500 S2 F-2011	
680-246808-G-1 MSD	Matrix Spike Duplicate	Total/NA	Water	4500 S2 F-2011	
680-246750-F-12 DU	Duplicate	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

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

Job ID: 680-246862-1

Client Sample ID: WAN-WGWA-1

Lab Sample ID: 680-246862-1

Date Collected: 02/13/24 12:15

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	2 mL	2 mL	825238	02/29/24 20:14	GE	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	125 mL	823457	02/20/24 05:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			824202	02/22/24 14:58	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823633	02/20/24 15:00	DW	EET SAV
Total/NA	Analysis	7470A		1			824013	02/21/24 18:35	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			823597	02/19/24 19:54	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	823340	02/19/24 10:58	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	823366	02/19/24 12:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWA-2

Lab Sample ID: 680-246862-2

Date Collected: 02/13/24 10:55

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	2 mL	2 mL	825238	02/29/24 20:25	GE	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	125 mL	823457	02/20/24 05:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			824202	02/22/24 15:37	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823633	02/20/24 15:00	DW	EET SAV
Total/NA	Analysis	7470A		1			824013	02/21/24 18:37	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			823597	02/19/24 20:03	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	823340	02/19/24 10:58	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	823366	02/19/24 12:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWA-3

Lab Sample ID: 680-246862-3

Date Collected: 02/13/24 11:07

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	2 mL	2 mL	825238	02/29/24 20:36	GE	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	125 mL	823457	02/20/24 05:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			824202	02/22/24 15:40	BWR	EET SAV
	Instrument ID: ICPMSD									

Lab Chronicle

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

Job ID: 680-246862-1

Client Sample ID: WAN-WGWA-3

Lab Sample ID: 680-246862-3

Date Collected: 02/13/24 11:07

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	823633	02/20/24 15:00	DW	EET SAV
Total/NA	Analysis	7470A		1			824013	02/21/24 18:40	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			823604	02/19/24 22:36	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	823340	02/19/24 10:58	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	823366	02/19/24 12:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWA-4

Lab Sample ID: 680-246862-4

Date Collected: 02/13/24 12:05

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	2 mL	2 mL	825238	02/29/24 20:48	GE	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	125 mL	823457	02/20/24 05:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			824202	02/22/24 15:43	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823633	02/20/24 15:00	DW	EET SAV
Total/NA	Analysis	7470A		1			824013	02/21/24 18:47	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			823604	02/19/24 23:01	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	823340	02/19/24 10:58	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	823366	02/19/24 12:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWA-6

Lab Sample ID: 680-246862-5

Date Collected: 02/13/24 13:08

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	2 mL	2 mL	825238	02/29/24 20:59	GE	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	125 mL	823457	02/20/24 05:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			824202	02/22/24 15:46	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823633	02/20/24 15:00	DW	EET SAV
Total/NA	Analysis	7470A		1			824013	02/21/24 18:49	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			823604	02/19/24 22:52	PG	EET SAV
	Instrument ID: MANTECH 2									

Lab Chronicle

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

Job ID: 680-246862-1

Client Sample ID: WAN-WGWA-6

Lab Sample ID: 680-246862-5

Date Collected: 02/13/24 13:08

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	823340	02/19/24 10:58	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	823366	02/19/24 12:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWC-20

Lab Sample ID: 680-246862-6

Date Collected: 02/13/24 14:00

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		25	2 mL	2 mL	825136	02/29/24 16:39	GE	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	125 mL	823457	02/20/24 05:27	RR	EET SAV
Total Recoverable	Analysis	6020B		10			824202	02/22/24 15:48	BWR	EET SAV
	Instrument ID: ICPMSD									
Total Recoverable	Prep	3005A			25 mL	125 mL	823457	02/20/24 05:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			824202	02/22/24 16:57	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823633	02/20/24 15:00	DW	EET SAV
Total/NA	Analysis	7470A		1			824013	02/21/24 18:52	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			823604	02/19/24 22:08	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	823340	02/19/24 10:58	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	823366	02/19/24 12:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWC-8

Lab Sample ID: 680-246862-7

Date Collected: 02/13/24 15:30

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		10	2 mL	2 mL	825136	02/29/24 16:51	GE	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	125 mL	823457	02/20/24 05:27	RR	EET SAV
Total Recoverable	Analysis	6020B		10			824202	02/22/24 15:51	BWR	EET SAV
	Instrument ID: ICPMSD									
Total Recoverable	Prep	3005A			25 mL	125 mL	823457	02/20/24 05:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			824202	02/22/24 17:00	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823633	02/20/24 15:00	DW	EET SAV
Total/NA	Analysis	7470A		1			824013	02/21/24 18:54	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			823604	02/19/24 23:05	PG	EET SAV
	Instrument ID: MANTECH 2									

Lab Chronicle

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

Job ID: 680-246862-1

Client Sample ID: WAN-WGWC-8

Lab Sample ID: 680-246862-7

Date Collected: 02/13/24 15:30
Matrix: Water
Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	823340	02/19/24 10:58	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	823366	02/19/24 12:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-AP1-FB-07

Lab Sample ID: 680-246862-8

Date Collected: 02/13/24 15:15
Matrix: Water
Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	2 mL	2 mL	825238	02/29/24 21:10	GE	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	125 mL	823457	02/20/24 05:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			824202	02/22/24 15:54	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823633	02/20/24 15:00	DW	EET SAV
Total/NA	Analysis	7470A		1			824013	02/21/24 18:56	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			823604	02/19/24 22:21	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	823340	02/19/24 10:58	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	823366	02/19/24 12:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWA-7

Lab Sample ID: 680-246862-9

Date Collected: 02/13/24 16:20
Matrix: Water
Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	2 mL	2 mL	825238	02/29/24 22:18	GE	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	125 mL	823457	02/20/24 05:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			824202	02/22/24 15:57	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823633	02/20/24 15:00	DW	EET SAV
Total/NA	Analysis	7470A		1			824013	02/21/24 18:59	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			823604	02/19/24 22:29	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	823340	02/19/24 10:58	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	280 mL	280 mL	823366	02/19/24 12:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWA-18

Lab Sample ID: 680-246862-10

Date Collected: 02/13/24 11:55

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	2 mL	2 mL	825238	02/29/24 22:52	GE	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	125 mL	823457	02/20/24 05:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			824202	02/22/24 16:00	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823633	02/20/24 15:00	DW	EET SAV
Total/NA	Analysis	7470A		1			824013	02/21/24 19:01	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			823604	02/19/24 23:13	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	823340	02/19/24 10:58	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	823609	02/20/24 13:13	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-AP1-FD-01

Lab Sample ID: 680-246862-11

Date Collected: 02/14/24 00:00

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		5	2 mL	2 mL	825136	02/29/24 17:02	GE	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	125 mL	823457	02/20/24 05:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			824202	02/22/24 16:08	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823643	02/20/24 15:18	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 16:59	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			823723	02/20/24 19:45	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	823340	02/19/24 10:58	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	823768	02/21/24 11:43	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWC-9

Lab Sample ID: 680-246862-12

Date Collected: 02/14/24 13:45

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	2 mL	2 mL	825238	02/29/24 23:03	GE	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	125 mL	823457	02/20/24 05:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			824202	02/22/24 16:17	BWR	EET SAV
	Instrument ID: ICPMSD									

Lab Chronicle

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

Job ID: 680-246862-1

Client Sample ID: WAN-WGWC-9

Lab Sample ID: 680-246862-12

Date Collected: 02/14/24 13:45

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	823643	02/20/24 15:18	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 17:06	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			823723	02/20/24 20:09	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	823340	02/19/24 10:58	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	823768	02/21/24 11:43	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWC-28D

Lab Sample ID: 680-246862-13

Date Collected: 02/14/24 12:20

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		50	2 mL	2 mL	825136	02/29/24 17:13	GE	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	125 mL	823457	02/20/24 05:27	RR	EET SAV
Total Recoverable	Analysis	6020B		10			824202	02/22/24 16:20	BWR	EET SAV
	Instrument ID: ICPMSD									
Total Recoverable	Prep	3005A			25 mL	125 mL	823457	02/20/24 05:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			824202	02/22/24 17:03	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823643	02/20/24 15:18	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 17:08	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			823723	02/20/24 20:01	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	823340	02/19/24 10:58	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	823768	02/21/24 11:43	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-AP1-EB-01

Lab Sample ID: 680-246862-14

Date Collected: 02/14/24 12:50

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	2 mL	2 mL	825238	02/29/24 23:14	GE	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	125 mL	823457	02/20/24 05:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			824202	02/22/24 16:23	BWR	EET SAV
	Instrument ID: ICPMSD									

Lab Chronicle

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

Job ID: 680-246862-1

Client Sample ID: WAN-AP1-EB-01

Lab Sample ID: 680-246862-14

Date Collected: 02/14/24 12:50

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	823643	02/20/24 15:18	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 17:10	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			823729	02/20/24 23:48	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	823340	02/19/24 10:58	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	823768	02/21/24 11:43	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWC-24

Lab Sample ID: 680-246862-15

Date Collected: 02/14/24 15:30

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		5	2 mL	2 mL	825136	02/29/24 17:25	GE	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	125 mL	823457	02/20/24 05:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			824202	02/22/24 16:26	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823643	02/20/24 15:18	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 17:13	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			823723	02/20/24 20:30	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	823618	02/20/24 14:24	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	823768	02/21/24 11:43	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWC-12

Lab Sample ID: 680-246862-16

Date Collected: 02/14/24 14:35

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	2 mL	2 mL	825238	02/29/24 23:26	GE	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	125 mL	823457	02/20/24 05:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			824202	02/22/24 16:34	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823643	02/20/24 15:18	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 17:15	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			823723	02/20/24 20:26	PG	EET SAV
	Instrument ID: MANTECH 2									

Lab Chronicle

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

Job ID: 680-246862-1

Client Sample ID: WAN-WGWC-12

Lab Sample ID: 680-246862-16

Date Collected: 02/14/24 14:35

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	823618	02/20/24 14:24	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	823768	02/21/24 11:43	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWC-22

Lab Sample ID: 680-246862-17

Date Collected: 02/14/24 11:40

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	2 mL	2 mL	825238	02/29/24 23:37	GE	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	125 mL	823457	02/20/24 05:27	RR	EET SAV
Total Recoverable	Analysis	6020B		1			824202	02/22/24 16:37	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823643	02/20/24 15:18	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 17:22	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			823723	02/20/24 20:18	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	823618	02/20/24 14:24	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	823768	02/21/24 11:43	JAS	EET SAV
	Instrument ID: NoEquip									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-246862-1
Project/Site: Plant Wansley Ash Pond

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24

Method Summary

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

Job ID: 680-246862-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
2320B-2011	Alkalinity, Total	SM	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
4500 S2 F-2011	Sulfide, Total	SM	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

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

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

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

Laboratory References:

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

Eurofins TestAmerica, Savannah
5102 LaRoch[illegible]nue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: J.Berfield ACC	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770-594-5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 1 of 2
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027766			
Email: SCS Contacts / Geosyntec Contacts	PO #: GPC82130-0004			
Project Name: Plant Wansley Ash Pond	Project #:			
Site:	SSOW#:			

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:

Task_Code: WAN-CCR-ASSMT-2024S1

Special Instructions/Note: Ful[illegible]

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=equality control)	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 6020/7470): Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Tl	Radium 226 & 228 (SW-846 9315/9320)	Major Ions - Carbonate, Bicarbonate, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of containers
			Preservation Code:				D	I	D	D	I	B, C	D	
WAN-WGWA-1	02/13/24	1215	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-WGWA-2	02/13/24	1055	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-WGWA-3	02/13/24	1107	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-WGWA-4	02/13/24	1205	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-WGWA-6	02/13/24	1308	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-WGWC-20	02/13/24	1400	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-WGWC-8	02/13/24	1530	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-AP1-FB-07	02/13/24	1515	G	WQ	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-WGWA-7	02/13/24	1620	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-WGWA-18	02/13/24	1155	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-AP1-FD-01	02/14/24	—	G	WG		N	✓	✓	✓	✓	✓	✓	✓	8

680-246862 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	2/14/24 1630	ACC	[signature]	02/14/24 1630	ACC
[signature]	02/15/24 0730	ACC	Michael Merkel	2-15-24 8:37	
Michael Merkel	2-15-24 8:37		[signature]	2/16/24 1003	

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.8/1.8 1.1/1.1 2.3/2.3 2.5/2.5 4.3/4.3 2.4/2.4

Eurofins TestAmerica, Savannah
5102 LaRoch[illegible]ue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | E[illegible]ment Testing America

Client Information	Sampler: J. Bartlett ACC	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770-594-5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 2 of 2
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:	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:
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027766			
Email: SCS Contacts / Geosyntec Contacts	PO #: GPC82130-0004			
Project Name: Plant Wansley Ash Pond	Project #:			
Site:	SSOW#:			Task_Code: WAN-CCR-ASSMT-2024S1

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=quality control)	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 6020/7470): Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Tl	Radium 226 & 228 (SW-846 9315/9320)	Major Ions - Carbonate, Bicarbonate, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of containers	Special Instructions/Note: Full APP III and APP IV
			Preservation Code:				D	I	D	D	I	B, C	D		
WAN- WGWC-9	02/14/24	1345	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8	
WAN- WGWC-28D	02/14/24	1220	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8	
WAN- APP-EB-01	02/14/24	1250	G	WQ	N	N	✓	✓	✓	✓	✓	✓	✓	8	
WAN- WGWC-24	02/14/24	1530	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8	
WAN- WGWC-12	02/14/24	1435	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8	
WAN- WGWC-22	02/14/24	1140	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8	
WAN- WGWA-5	02/13/24	1455	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8	ON Hold
WAN-			G			N									
WAN-			G			N									
WAN-			G			N									
WAN-			G			N									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	2/14/24 1630	ACC		02/14/24 1630	ACC
Relinquished by:	Date/Time: 02/15/24 0830	Company ACC	Received by:	Date/Time: 2-15-24 8:37	Company
Relinquished by:	Date/Time: 2/15/24 8:37	Company	Received by:	Date/Time: 2/16/24 0003	Company

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

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-246862-1

Login Number: 246862

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/28/2024 10:25:41 AM

JOB DESCRIPTION

Plant Wansley Ash Pond

JOB NUMBER

680-246862-2

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

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

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

Authorization



Generated
3/28/2024 10:25:41 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

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

Job ID: 680-246862-2

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.
X	Carrier is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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

Sample Summary

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

Job ID: 680-246862-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-246862-1	WAN-WGWA-1	Water	02/13/24 12:15	02/16/24 10:03
680-246862-2	WAN-WGWA-2	Water	02/13/24 10:55	02/16/24 10:03
680-246862-3	WAN-WGWA-3	Water	02/13/24 11:07	02/16/24 10:03
680-246862-4	WAN-WGWA-4	Water	02/13/24 12:05	02/16/24 10:03
680-246862-5	WAN-WGWA-6	Water	02/13/24 13:08	02/16/24 10:03
680-246862-6	WAN-WGWC-20	Water	02/13/24 14:00	02/16/24 10:03
680-246862-7	WAN-WGWC-8	Water	02/13/24 15:30	02/16/24 10:03
680-246862-8	WAN-AP1-FB-07	Water	02/13/24 15:15	02/16/24 10:03
680-246862-9	WAN-WGWA-7	Water	02/13/24 16:20	02/16/24 10:03
680-246862-10	WAN-WGWA-18	Water	02/13/24 11:55	02/16/24 10:03
680-246862-11	WAN-AP1-FD-01	Water	02/14/24 00:00	02/16/24 10:03
680-246862-12	WAN-WGWC-9	Water	02/14/24 13:45	02/16/24 10:03
680-246862-13	WAN-WGWC-28D	Water	02/14/24 12:20	02/16/24 10:03
680-246862-14	WAN-AP1-EB-01	Water	02/14/24 12:50	02/16/24 10:03
680-246862-15	WAN-WGWC-24	Water	02/14/24 15:30	02/16/24 10:03
680-246862-16	WAN-WGWC-12	Water	02/14/24 14:35	02/16/24 10:03
680-246862-17	WAN-WGWC-22	Water	02/14/24 11:40	02/16/24 10:03

Job ID: 680-246862-2 — Eurofins Savannah

Job Narrative
680-246862-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 2/16/2024 10:03 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 1.1°C, 1.8°C, 2.3°C, 2.4°C, 2.5°C and 4.3°C.

Gas Flow Proportional Counter
Method 9315_Ra226: Radium 226 prep batch 160-649210: The barium carrier recovery is outside the upper control limit (110%) for the following sample: WAN-WGWC-20 (680-246862-6). The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method 9315_Ra226: Radium-226 prep batch 160-649210: The Ba Carrier recovery is outside the upper control limit (110%) for the following sample: WAN-WGWC-20 (680-246862-6) The LCS (laboratory control sample) has an acceptable spike recovery demonstrating acceptable sample preparation and instrument performance. The sample have been truncated to 100% to reduce any potential bias a high carrier recovery may have. The data have been qualified and reported.

Method 9320_Ra228: Radium 228 prep batch 160-649241: The barium carrier recovery is outside the upper control limit (110%) for the following sample: WAN-WGWC-20 (680-246862-6). The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method 9320_Ra228: Radium-228 prep batch 160-649241: The Ba carrier recovery was outside the upper control limit. The Laboratory Control Sample (LCS) have acceptable spike recoveries, demonstrating proper method and instrument performance. The sample has been truncated to minimize any potential bias a high carrier/tracer recovery may have on the results. WAN-WGWC-20 (680-246862-6)

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.

Client Sample ID: WAN-WGWA-1

Lab Sample ID: 680-246862-1

Date Collected: 02/13/24 12:15

Matrix: Water

Date Received: 02/16/24 10:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0441	U	0.0519	0.0521	1.00	0.0845	pCi/L	02/22/24 10:05	03/17/24 14:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*30 - 110*	*02/22/24 10:05*	*03/17/24 14:20*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.164	U	0.330	0.330	1.00	0.573	pCi/L	02/22/24 10:09	03/04/24 12:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:35*	*1*
Y Carrier	*72.5*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:35*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.208	U	0.334	0.334	2.00	0.573	pCi/L		03/28/24 07:52	1

Client Sample ID: WAN-WGWA-2

Lab Sample ID: 680-246862-2

Date Collected: 02/13/24 10:55

Matrix: Water

Date Received: 02/16/24 10:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0273	U	0.0565	0.0566	1.00	0.102	pCi/L	02/22/24 10:05	03/17/24 14:33	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.1*		*30 - 110*	*02/22/24 10:05*	*03/17/24 14:33*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.00250	U	0.297	0.297	1.00	0.564	pCi/L	02/22/24 10:09	03/04/24 12:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.1*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:35*	*1*
Y Carrier	*76.3*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:35*	*1*

Client Sample ID: WAN-WGWA-2

Lab Sample ID: 680-246862-2

Date Collected: 02/13/24 10:55

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0248	U	0.302	0.302	2.00	0.564	pCi/L		03/28/24 07:52	1

Client Sample ID: WAN-WGWA-3

Lab Sample ID: 680-246862-3

Date Collected: 02/13/24 11:07

Matrix: Water

Date Received: 02/16/24 10:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0118	U	0.0503	0.0503	1.00	0.0964	pCi/L	02/22/24 10:05	03/17/24 14:33	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*30 - 110*	*02/22/24 10:05*	*03/17/24 14:33*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.158	U	0.218	0.218	1.00	0.470	pCi/L	02/22/24 10:09	03/04/24 12:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:35*	*1*
Y Carrier	*80.0*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:35*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.146	U	0.224	0.224	2.00	0.470	pCi/L		03/28/24 07:52	1

Client Sample ID: WAN-WGWA-4

Lab Sample ID: 680-246862-4

Date Collected: 02/13/24 12:05

Matrix: Water

Date Received: 02/16/24 10:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.604**		0.136	0.147	1.00	0.106	pCi/L	02/22/24 10:05	03/17/24 14:33	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*100*		*30 - 110*	*02/22/24 10:05*	*03/17/24 14:33*	*1*

Client Sample ID: WAN-WGWA-4

Lab Sample ID: 680-246862-4

Date Collected: 02/13/24 12:05

Matrix: Water

Date Received: 02/16/24 10:03

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.61		0.459	0.482	1.00	0.506	pCi/L	02/22/24 10:09	03/04/24 12:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*100*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:35*	*1*
Y Carrier	*82.2*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:35*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.21		0.479	0.504	2.00	0.506	pCi/L		03/28/24 07:52	1

Client Sample ID: WAN-WGWA-6

Lab Sample ID: 680-246862-5

Date Collected: 02/13/24 13:08

Matrix: Water

Date Received: 02/16/24 10:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.65		0.318	0.457	1.00	0.114	pCi/L	02/22/24 10:05	03/17/24 14:33	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.7*		*30 - 110*	*02/22/24 10:05*	*03/17/24 14:33*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	7.20		0.912	1.13	1.00	0.631	pCi/L	02/22/24 10:09	03/04/24 12:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.7*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:35*	*1*
Y Carrier	*75.9*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:35*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	10.8		0.966	1.22	2.00	0.631	pCi/L		03/28/24 07:52	1

Client Sample ID: WAN-WGWC-20

Lab Sample ID: 680-246862-6

Date Collected: 02/13/24 14:00

Matrix: Water

Date Received: 02/16/24 10:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.141		0.0740	0.0751	1.00	0.0893	pCi/L	02/22/24 10:05	03/17/24 14:33	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*112*	*X*	*30 - 110*	*02/22/24 10:05*	*03/17/24 14:33*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.921		0.405	0.413	1.00	0.527	pCi/L	02/22/24 10:09	03/04/24 12:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*112*	*X*	*30 - 110*	*02/22/24 10:09*	*03/04/24 12:36*	*1*
Y Carrier	*75.1*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:36*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.06		0.412	0.420	2.00	0.527	pCi/L		03/28/24 07:52	1

Client Sample ID: WAN-WGWC-8

Lab Sample ID: 680-246862-7

Date Collected: 02/13/24 15:30

Matrix: Water

Date Received: 02/16/24 10:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.456		0.117	0.124	1.00	0.0872	pCi/L	02/22/24 10:05	03/17/24 14:33	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.7*		*30 - 110*	*02/22/24 10:05*	*03/17/24 14:33*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.99		0.495	0.528	1.00	0.491	pCi/L	02/22/24 10:09	03/04/24 12:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.7*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:36*	*1*
Y Carrier	*82.2*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:36*	*1*

Client Sample ID: WAN-WGWC-8

Lab Sample ID: 680-246862-7

Date Collected: 02/13/24 15:30
Matrix: Water
Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.44		0.509	0.542	2.00	0.491	pCi/L		03/28/24 07:52	1

Client Sample ID: WAN-AP1-FB-07

Lab Sample ID: 680-246862-8

Date Collected: 02/13/24 15:15
Matrix: Water
Date Received: 02/16/24 10:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0360	U	0.0322	0.0323	1.00	0.0927	pCi/L	02/22/24 10:05	03/17/24 14:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.2*		*30 - 110*	*02/22/24 10:05*	*03/17/24 14:34*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0511	U	0.314	0.314	1.00	0.576	pCi/L	02/22/24 10:09	03/04/24 12:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.2*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:36*	*1*
Y Carrier	*74.8*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:36*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0151	U	0.316	0.316	2.00	0.576	pCi/L		03/28/24 07:52	1

Client Sample ID: WAN-WGWA-7

Lab Sample ID: 680-246862-9

Date Collected: 02/13/24 16:20
Matrix: Water
Date Received: 02/16/24 10:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0839	U	0.0613	0.0617	1.00	0.0857	pCi/L	02/22/24 10:05	03/17/24 14:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*02/22/24 10:05*	*03/17/24 14:34*	*1*

Client Sample ID: WAN-WGWA-7

Lab Sample ID: 680-246862-9

Date Collected: 02/13/24 16:20

Matrix: Water

Date Received: 02/16/24 10:03

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.221	U	0.281	0.282	1.00	0.588	pCi/L	02/22/24 10:09	03/04/24 12:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:36*	*1*
Y Carrier	*77.0*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:36*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.137	U	0.288	0.289	2.00	0.588	pCi/L		03/28/24 07:52	1

Client Sample ID: WAN-WGWA-18

Lab Sample ID: 680-246862-10

Date Collected: 02/13/24 11:55

Matrix: Water

Date Received: 02/16/24 10:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.133**		0.0785	0.0794	1.00	0.103	pCi/L	02/22/24 10:05	03/17/24 14:33	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*30 - 110*	*02/22/24 10:05*	*03/17/24 14:33*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.175	U	0.355	0.355	1.00	0.613	pCi/L	02/22/24 10:09	03/04/24 12:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*104*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:36*	*1*
Y Carrier	*80.0*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:36*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.309	U	0.364	0.364	2.00	0.613	pCi/L		03/28/24 07:52	1

Client Sample ID: WAN-AP1-FD-01

Lab Sample ID: 680-246862-11

Date Collected: 02/14/24 00:00

Matrix: Water

Date Received: 02/16/24 10:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.108		0.0624	0.0632	1.00	0.0762	pCi/L	02/22/24 10:05	03/17/24 14:33	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*106*		*30 - 110*	*02/22/24 10:05*	*03/17/24 14:33*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.368	U	0.340	0.342	1.00	0.542	pCi/L	02/22/24 10:09	03/04/24 12:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*106*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:36*	*1*
Y Carrier	*81.9*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:36*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.477	U	0.346	0.348	2.00	0.542	pCi/L		03/28/24 07:52	1

Client Sample ID: WAN-WGWC-9

Lab Sample ID: 680-246862-12

Date Collected: 02/14/24 13:45

Matrix: Water

Date Received: 02/16/24 10:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0619	U	0.0600	0.0603	1.00	0.0931	pCi/L	02/22/24 10:05	03/18/24 13:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*100*		*30 - 110*	*02/22/24 10:05*	*03/18/24 13:56*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.217	U	0.308	0.308	1.00	0.518	pCi/L	02/22/24 10:09	03/04/24 12:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*100*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:37*	*1*
Y Carrier	*79.3*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:37*	*1*

Client Sample ID: WAN-WGWC-9

Lab Sample ID: 680-246862-12

Date Collected: 02/14/24 13:45

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.279	U	0.314	0.314	2.00	0.518	pCi/L		03/28/24 07:52	1

Client Sample ID: WAN-WGWC-28D

Lab Sample ID: 680-246862-13

Date Collected: 02/14/24 12:20

Matrix: Water

Date Received: 02/16/24 10:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**4.24**		0.342	0.512	1.00	0.131	pCi/L	02/22/24 10:05	03/17/24 14:33	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.0*		*30 - 110*	*02/22/24 10:05*	*03/17/24 14:33*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**9.09**		0.985	1.29	1.00	0.591	pCi/L	02/22/24 10:09	03/04/24 12:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.0*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:37*	*1*
Y Carrier	*76.6*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:37*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**13.3**		1.04	1.39	2.00	0.591	pCi/L		03/28/24 07:52	1

Client Sample ID: WAN-AP1-EB-01

Lab Sample ID: 680-246862-14

Date Collected: 02/14/24 12:50

Matrix: Water

Date Received: 02/16/24 10:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0344	U	0.0659	0.0659	1.00	0.116	pCi/L	02/22/24 10:05	03/17/24 14:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*105*		*30 - 110*	*02/22/24 10:05*	*03/17/24 14:32*	*1*

Client Sample ID: WAN-AP1-EB-01

Lab Sample ID: 680-246862-14

Date Collected: 02/14/24 12:50

Matrix: Water

Date Received: 02/16/24 10:03

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0342	U	0.266	0.266	1.00	0.510	pCi/L	02/22/24 10:09	03/04/24 12:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*105*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:37*	*1*
Y Carrier	*79.6*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:37*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.000203	U	0.274	0.274	2.00	0.510	pCi/L		03/28/24 07:52	1

Client Sample ID: WAN-WGWC-24

Lab Sample ID: 680-246862-15

Date Collected: 02/14/24 15:30

Matrix: Water

Date Received: 02/16/24 10:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.271**		0.0922	0.0954	1.00	0.0840	pCi/L	02/22/24 10:05	03/17/24 14:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.7*		*30 - 110*	*02/22/24 10:05*	*03/17/24 14:26*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.403	U	0.339	0.341	1.00	0.529	pCi/L	02/22/24 10:09	03/04/24 12:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.7*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:38*	*1*
Y Carrier	*78.9*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:38*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.674**		0.351	0.354	2.00	0.529	pCi/L		03/28/24 07:52	1

Client Sample ID: WAN-WGWC-12

Lab Sample ID: 680-246862-16

Date Collected: 02/14/24 14:35

Matrix: Water

Date Received: 02/16/24 10:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.101		0.0688	0.0694	1.00	0.0964	pCi/L	02/22/24 10:05	03/17/24 14:26	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	102		30 - 110	02/22/24 10:05	03/17/24 14:26	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.712		0.372	0.378	1.00	0.517	pCi/L	02/22/24 10:09	03/04/24 12:38	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	102		30 - 110	02/22/24 10:09	03/04/24 12:38	1
Y Carrier	77.0		30 - 110	02/22/24 10:09	03/04/24 12:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.813		0.378	0.384	2.00	0.517	pCi/L		03/28/24 07:52	1

Client Sample ID: WAN-WGWC-22

Lab Sample ID: 680-246862-17

Date Collected: 02/14/24 11:40

Matrix: Water

Date Received: 02/16/24 10:03

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.98		0.240	0.299	1.00	0.113	pCi/L	02/22/24 10:05	03/17/24 15:46	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	95.7		30 - 110	02/22/24 10:05	03/17/24 15:46	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.49		0.648	0.723	1.00	0.539	pCi/L	02/22/24 10:09	03/04/24 12:38	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	95.7		30 - 110	02/22/24 10:09	03/04/24 12:38	1
Y Carrier	77.4		30 - 110	02/22/24 10:09	03/04/24 12:38	1

Client Sample Results

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

Job ID: 680-246862-2

Client Sample ID: WAN-WGWC-22

Lab Sample ID: 680-246862-17

Date Collected: 02/14/24 11:40

Matrix: Water

Date Received: 02/16/24 10:03

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	5.46		0.691	0.782	2.00	0.539	pCi/L		03/28/24 07:52	1

Tracer/Carrier Summary

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

Job ID: 680-246862-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(30-110)
680-246862-1	WAN-WGWA-1	104
680-246862-1 DU	WAN-WGWA-1	98.7
680-246862-2	WAN-WGWA-2	93.1
680-246862-3	WAN-WGWA-3	104
680-246862-4	WAN-WGWA-4	100
680-246862-5	WAN-WGWA-6	94.7
680-246862-6	WAN-WGWC-20	112 X
680-246862-7	WAN-WGWC-8	95.7
680-246862-8	WAN-AP1-FB-07	98.2
680-246862-9	WAN-WGWA-7	101
680-246862-10	WAN-WGWA-18	104
680-246862-11	WAN-AP1-FD-01	106
680-246862-12	WAN-WGWC-9	100
680-246862-13	WAN-WGWC-28D	97.0
680-246862-14	WAN-AP1-EB-01	105
680-246862-15	WAN-WGWC-24	97.7
680-246862-16	WAN-WGWC-12	102
680-246862-17	WAN-WGWC-22	95.7
LCS 160-649210/2-A	Lab Control Sample	103
MB 160-649210/1-A	Method Blank	99.0

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
680-246862-1	WAN-WGWA-1	104	72.5
680-246862-1 DU	WAN-WGWA-1	98.7	82.6
680-246862-2	WAN-WGWA-2	93.1	76.3
680-246862-3	WAN-WGWA-3	104	80.0
680-246862-4	WAN-WGWA-4	100	82.2
680-246862-5	WAN-WGWA-6	94.7	75.9
680-246862-6	WAN-WGWC-20	112 X	75.1
680-246862-7	WAN-WGWC-8	95.7	82.2
680-246862-8	WAN-AP1-FB-07	98.2	74.8
680-246862-9	WAN-WGWA-7	101	77.0
680-246862-10	WAN-WGWA-18	104	80.0
680-246862-11	WAN-AP1-FD-01	106	81.9
680-246862-12	WAN-WGWC-9	100	79.3
680-246862-13	WAN-WGWC-28D	97.0	76.6
680-246862-14	WAN-AP1-EB-01	105	79.6
680-246862-15	WAN-WGWC-24	97.7	78.9
680-246862-16	WAN-WGWC-12	102	77.0
680-246862-17	WAN-WGWC-22	95.7	77.4
LCS 160-649241/2-A	Lab Control Sample	103	83.4
MB 160-649241/1-A	Method Blank	99.0	86.4

Tracer/Carrier Summary

Client: Southern Company
Job ID: 680-246862-2
Project/Site: Plant Wansley Ash Pond

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-649210/1-A
Matrix: Water
Analysis Batch: 652802

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649210

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.02747	U	0.0665	0.0665	1.00	0.119	pCi/L	02/22/24 10:05	03/17/24 14:19	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.0*		*30 - 110*	*02/22/24 10:05*	*03/17/24 14:19*	*1*

Lab Sample ID: LCS 160-649210/2-A
Matrix: Water
Analysis Batch: 652802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649210

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.99		1.12	1.00	0.0715	pCi/L	97	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*103*		*30 - 110*

Lab Sample ID: 680-246862-1 DU
Matrix: Water
Analysis Batch: 652802

Client Sample ID: WAN-WGWA-1
Prep Type: Total/NA
Prep Batch: 649210

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.0441	U		0.03509	U	0.0435	1.00	0.0708	pCi/L			0.09	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*98.7*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-649241/1-A
Matrix: Water
Analysis Batch: 650947

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649241

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3185	U	0.314	0.315	1.00	0.503	pCi/L	02/22/24 10:09	03/04/24 12:35	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.0*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:35*	*1*
Y Carrier	*86.4*		*30 - 110*	*02/22/24 10:09*	*03/04/24 12:35*	*1*

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

Lab Sample ID: LCS 160-649241/2-A
Matrix: Water
Analysis Batch: 650947

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649241

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.15	7.954		1.13	1.00	0.469	pCi/L	87	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*103*		*30 - 110*
Y Carrier	*83.4*		*30 - 110*

Lab Sample ID: 680-246862-1 DU
Matrix: Water
Analysis Batch: 650947

Client Sample ID: WAN-WGWA-1
Prep Type: Total/NA
Prep Batch: 649241

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.164	U		0.3961	U	0.364	1.00	0.577	pCi/L			0.33	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*98.7*		*30 - 110*
Y Carrier	*82.6*		*30 - 110*

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

Job ID: 680-246862-2

Rad

Prep Batch: 649210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-1	WAN-WGWA-1	Total/NA	Water	PrecSep-21	
680-246862-2	WAN-WGWA-2	Total/NA	Water	PrecSep-21	
680-246862-3	WAN-WGWA-3	Total/NA	Water	PrecSep-21	
680-246862-4	WAN-WGWA-4	Total/NA	Water	PrecSep-21	
680-246862-5	WAN-WGWA-6	Total/NA	Water	PrecSep-21	
680-246862-6	WAN-WGWC-20	Total/NA	Water	PrecSep-21	
680-246862-7	WAN-WGWC-8	Total/NA	Water	PrecSep-21	
680-246862-8	WAN-AP1-FB-07	Total/NA	Water	PrecSep-21	
680-246862-9	WAN-WGWA-7	Total/NA	Water	PrecSep-21	
680-246862-10	WAN-WGWA-18	Total/NA	Water	PrecSep-21	
680-246862-11	WAN-AP1-FD-01	Total/NA	Water	PrecSep-21	
680-246862-12	WAN-WGWC-9	Total/NA	Water	PrecSep-21	
680-246862-13	WAN-WGWC-28D	Total/NA	Water	PrecSep-21	
680-246862-14	WAN-AP1-EB-01	Total/NA	Water	PrecSep-21	
680-246862-15	WAN-WGWC-24	Total/NA	Water	PrecSep-21	
680-246862-16	WAN-WGWC-12	Total/NA	Water	PrecSep-21	
680-246862-17	WAN-WGWC-22	Total/NA	Water	PrecSep-21	
MB 160-649210/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-649210/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
680-246862-1 DU	WAN-WGWA-1	Total/NA	Water	PrecSep-21	

Prep Batch: 649241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246862-1	WAN-WGWA-1	Total/NA	Water	PrecSep_0	
680-246862-2	WAN-WGWA-2	Total/NA	Water	PrecSep_0	
680-246862-3	WAN-WGWA-3	Total/NA	Water	PrecSep_0	
680-246862-4	WAN-WGWA-4	Total/NA	Water	PrecSep_0	
680-246862-5	WAN-WGWA-6	Total/NA	Water	PrecSep_0	
680-246862-6	WAN-WGWC-20	Total/NA	Water	PrecSep_0	
680-246862-7	WAN-WGWC-8	Total/NA	Water	PrecSep_0	
680-246862-8	WAN-AP1-FB-07	Total/NA	Water	PrecSep_0	
680-246862-9	WAN-WGWA-7	Total/NA	Water	PrecSep_0	
680-246862-10	WAN-WGWA-18	Total/NA	Water	PrecSep_0	
680-246862-11	WAN-AP1-FD-01	Total/NA	Water	PrecSep_0	
680-246862-12	WAN-WGWC-9	Total/NA	Water	PrecSep_0	
680-246862-13	WAN-WGWC-28D	Total/NA	Water	PrecSep_0	
680-246862-14	WAN-AP1-EB-01	Total/NA	Water	PrecSep_0	
680-246862-15	WAN-WGWC-24	Total/NA	Water	PrecSep_0	
680-246862-16	WAN-WGWC-12	Total/NA	Water	PrecSep_0	
680-246862-17	WAN-WGWC-22	Total/NA	Water	PrecSep_0	
MB 160-649241/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-649241/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
680-246862-1 DU	WAN-WGWA-1	Total/NA	Water	PrecSep_0	

Lab Chronicle

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

Job ID: 680-246862-2

Client Sample ID: WAN-WGWA-1

Lab Sample ID: 680-246862-1

Date Collected: 02/13/24 12:15

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			993.85 mL	1.0 g	649210	02/22/24 10:05	KAC	EET SL
Total/NA	Analysis	9315		1			652802	03/17/24 14:20	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			993.85 mL	1.0 g	649241	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	9320		1			650947	03/04/24 12:35	SCB	EET SL
	Instrument ID: GFPCPURPLE									
Total/NA	Analysis	Ra226_Ra228		1			654354	03/28/24 07:52	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWA-2

Lab Sample ID: 680-246862-2

Date Collected: 02/13/24 10:55

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			997.88 mL	1.0 g	649210	02/22/24 10:05	KAC	EET SL
Total/NA	Analysis	9315		1			652812	03/17/24 14:33	SCB	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			997.88 mL	1.0 g	649241	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	9320		1			650942	03/04/24 12:35	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654354	03/28/24 07:52	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWA-3

Lab Sample ID: 680-246862-3

Date Collected: 02/13/24 11:07

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			995.95 mL	1.0 g	649210	02/22/24 10:05	KAC	EET SL
Total/NA	Analysis	9315		1			652812	03/17/24 14:33	SCB	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			995.95 mL	1.0 g	649241	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	9320		1			650942	03/04/24 12:35	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654354	03/28/24 07:52	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWA-4

Lab Sample ID: 680-246862-4

Date Collected: 02/13/24 12:05

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			994.75 mL	1.0 g	649210	02/22/24 10:05	KAC	EET SL
Total/NA	Analysis	9315		1			652812	03/17/24 14:33	SCB	EET SL
	Instrument ID: GFPCBLUE									

Client Sample ID: WAN-WGWA-4

Lab Sample ID: 680-246862-4

Date Collected: 02/13/24 12:05

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			994.75 mL	1.0 g	649241	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	9320		1			650942	03/04/24 12:35	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654354	03/28/24 07:52	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWA-6

Lab Sample ID: 680-246862-5

Date Collected: 02/13/24 13:08

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.47 mL	1.0 g	649210	02/22/24 10:05	KAC	EET SL
Total/NA	Analysis	9315		1			652812	03/17/24 14:33	SCB	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1000.47 mL	1.0 g	649241	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	9320		1			650942	03/04/24 12:35	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654354	03/28/24 07:52	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWC-20

Lab Sample ID: 680-246862-6

Date Collected: 02/13/24 14:00

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1004.22 mL	1.0 g	649210	02/22/24 10:05	KAC	EET SL
Total/NA	Analysis	9315		1			652812	03/17/24 14:33	SCB	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1004.22 mL	1.0 g	649241	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	9320		1			650942	03/04/24 12:36	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654354	03/28/24 07:52	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWC-8

Lab Sample ID: 680-246862-7

Date Collected: 02/13/24 15:30

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.83 mL	1.0 g	649210	02/22/24 10:05	KAC	EET SL
Total/NA	Analysis	9315		1			652812	03/17/24 14:33	SCB	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			999.83 mL	1.0 g	649241	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	9320		1			650942	03/04/24 12:36	SCB	EET SL
	Instrument ID: GFPCRED									

Lab Chronicle

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

Job ID: 680-246862-2

Client Sample ID: WAN-WGWC-8

Lab Sample ID: 680-246862-7

Date Collected: 02/13/24 15:30
Matrix: Water
Date Received: 02/16/24 10:03

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			654354	03/28/24 07:52	FLC	EET SL

Client Sample ID: WAN-AP1-FB-07

Lab Sample ID: 680-246862-8

Date Collected: 02/13/24 15:15
Matrix: Water
Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			998.29 mL	1.0 g	649210	02/22/24 10:05	KAC	EET SL
Total/NA	Analysis	9315		1			652812	03/17/24 14:34	SCB	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			998.29 mL	1.0 g	649241	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	9320		1			650942	03/04/24 12:36	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654354	03/28/24 07:52	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWA-7

Lab Sample ID: 680-246862-9

Date Collected: 02/13/24 16:20
Matrix: Water
Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			984.80 mL	1.0 g	649210	02/22/24 10:05	KAC	EET SL
Total/NA	Analysis	9315		1			652812	03/17/24 14:34	SCB	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			984.80 mL	1.0 g	649241	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	9320		1			650942	03/04/24 12:36	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654354	03/28/24 07:52	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWA-18

Lab Sample ID: 680-246862-10

Date Collected: 02/13/24 11:55
Matrix: Water
Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			990.11 mL	1.0 g	649210	02/22/24 10:05	KAC	EET SL
Total/NA	Analysis	9315		1			652812	03/17/24 14:33	SCB	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			990.11 mL	1.0 g	649241	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	9320		1			650942	03/04/24 12:36	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654354	03/28/24 07:52	FLC	EET SL
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 680-246862-2

Client Sample ID: WAN-AP1-FD-01

Lab Sample ID: 680-246862-11

Date Collected: 02/14/24 00:00
Matrix: Water
Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			994.60 mL	1.0 g	649210	02/22/24 10:05	KAC	EET SL
Total/NA	Analysis	9315		1			652812	03/17/24 14:33	SCB	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			994.60 mL	1.0 g	649241	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	9320		1			650942	03/04/24 12:36	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654354	03/28/24 07:52	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWC-9

Lab Sample ID: 680-246862-12

Date Collected: 02/14/24 13:45
Matrix: Water
Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			994.61 mL	1.0 g	649210	02/22/24 10:05	KAC	EET SL
Total/NA	Analysis	9315		1			652815	03/18/24 13:56	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			994.61 mL	1.0 g	649241	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	9320		1			650942	03/04/24 12:37	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654354	03/28/24 07:52	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWC-28D

Lab Sample ID: 680-246862-13

Date Collected: 02/14/24 12:20
Matrix: Water
Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			997.99 mL	1.0 g	649210	02/22/24 10:05	KAC	EET SL
Total/NA	Analysis	9315		1			652812	03/17/24 14:33	SCB	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			997.99 mL	1.0 g	649241	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	9320		1			650942	03/04/24 12:37	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654354	03/28/24 07:52	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-AP1-EB-01

Lab Sample ID: 680-246862-14

Date Collected: 02/14/24 12:50
Matrix: Water
Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			993.06 mL	1.0 g	649210	02/22/24 10:05	KAC	EET SL
Total/NA	Analysis	9315		1			652812	03/17/24 14:32	SCB	EET SL
	Instrument ID: GFPCBLUE									

Lab Chronicle

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

Job ID: 680-246862-2

Client Sample ID: WAN-AP1-EB-01

Lab Sample ID: 680-246862-14

Date Collected: 02/14/24 12:50

Matrix: Water

Date Received: 02/16/24 10:03

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			993.06 mL	1.0 g	649241	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	9320		1			650942	03/04/24 12:37	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654354	03/28/24 07:52	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWC-24

Lab Sample ID: 680-246862-15

Date Collected: 02/14/24 15:30

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.07 mL	1.0 g	649210	02/22/24 10:05	KAC	EET SL
Total/NA	Analysis	9315		1			652802	03/17/24 14:26	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			1002.07 mL	1.0 g	649241	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	9320		1			650942	03/04/24 12:38	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654354	03/28/24 07:52	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWC-12

Lab Sample ID: 680-246862-16

Date Collected: 02/14/24 14:35

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			995.82 mL	1.0 g	649210	02/22/24 10:05	KAC	EET SL
Total/NA	Analysis	9315		1			652802	03/17/24 14:26	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			995.82 mL	1.0 g	649241	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	9320		1			650942	03/04/24 12:38	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654354	03/28/24 07:52	FLC	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWC-22

Lab Sample ID: 680-246862-17

Date Collected: 02/14/24 11:40

Matrix: Water

Date Received: 02/16/24 10:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			992.18 mL	1.0 g	649210	02/22/24 10:05	KAC	EET SL
Total/NA	Analysis	9315		1			652812	03/17/24 15:46	SCB	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			992.18 mL	1.0 g	649241	02/22/24 10:09	KAC	EET SL
Total/NA	Analysis	9320		1			650942	03/04/24 12:38	SCB	EET SL
	Instrument ID: GFPCRED									

Lab Chronicle

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

Job ID: 680-246862-2

Client Sample ID: WAN-WGWC-22
Date Collected: 02/14/24 11:40
Date Received: 02/16/24 10:03

Lab Sample ID: 680-246862-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1			654354	03/28/24 07:52	FLC	EET SL

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-246862-2
Project/Site: Plant Wansley Ash Pond

Laboratory: Eurofins St. Louis

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87689	06-30-24

Method Summary

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

Job ID: 680-246862-2

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

Protocol References:

None = None

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

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

Laboratory References:

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

Eurofins TestAmerica, Savannah
5102 LaRoch[illegible]nue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: ACC J.Berisford	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770-594-5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 1 of 2
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027766			
Email: SCS Contacts / Geosyntec Contacts	PO #: GPC82130-0004			
Project Name: Plant Wansley Ash Pond	Project #:			
Site:	SSOW#:			

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:

Task_Code: WAN-CCR-ASSMT-2024S1

Special Instructions/Note: Ful[illegible]

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=equality control)	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 6020/7470): Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Tl	Radium 226 & 228 (SW-846 9315/9320)	Major Ions - Carbonate, Bicarbonate, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of containers
			Preservation Code:				D	I	D	D	I	B, C	D	
WAN-WGWA-1	02/13/24	1215	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-WGWA-2	02/13/24	1055	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-WGWA-3	02/13/24	1107	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-WGWA-4	02/13/24	1205	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-WGWA-6	02/13/24	1308	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-WGWC-20	02/13/24	1400	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-WGWC-8	02/13/24	1530	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-AP1-FB-07	02/13/24	1515	G	WQ	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-WGWA-7	02/13/24	1620	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-WGWA-18	02/13/24	1155	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-AP1-FD-01	02/14/24	—	G	WG		N	✓	✓	✓	✓	✓	✓	✓	8

680-246862 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	2/14/24 1630	ACC		02/14/24 1630	ACC
Relinquished by:	02/15/24 0730	ACC	Received by: Michael Merkel	2-15-24 8:37	
Relinquished by: Michael Merkel	2-15-24 8:37		Received by:	2/16/24 1003	

Custody Seals Intact: △ Yes △ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.8/1.8 1.1/1.1 2.3/2.3 2.5/2.5 4.3/4.3 2.4/2.4

Eurofins TestAmerica, Savannah
5102 LaRoch[illegible]ue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | E[illegible]ment Testing America

Client Information	Sampler: J. Bartlett ACC	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770-594-5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 2 of 2
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Due Requested:	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:
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027766			
Email: SCS Contacts / Geosyntec Contacts	PO #: GPC82130-0004			
Project Name: Plant Wansley Ash Pond	Project #:			
Site:	SSOW#:			

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=quality control)	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 6020/7470): Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Tl	Radium 226 & 228 (SW-846 9315/9320)	Major Ions - Carbonate, Bicarbonate, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of containers	Task_Code: WAN-CCR-ASSMT-2024S1 / Special Instructions/Note: Full APP III and APP IV
			Preservation Code:				D	I	D	D	I	B, C	D		
WAN- WGWC-9	02/14/24	1345	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8	
WAN- WGWC-28D	02/14/24	1220	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8	
WAN- APP-EB-01	02/14/24	1250	G	WQ	N	N	✓	✓	✓	✓	✓	✓	✓	8	
WAN- WGWC-24	02/14/24	1530	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8	
WAN- WGWC-12	02/14/24	1435	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8	
WAN- WGWC-22	02/14/24	1140	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8	
WAN- WGWA-5	02/13/24	1455	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8	ON Hold
WAN-			G			N									
WAN-			G			N									
WAN-			G			N									
WAN-			G			N									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	2/14/24 1630	ACC	[signature]	02/14/24 1630	ACC
2	[signature]	02/15/24 0830	ACC	[signature]	2-15-24 8:37	
3	[signature]	2/15/24 8:37		[signature]	2/16/24 0003	

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

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-764159.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida; State - Georgia		Job #: 680-246862-2
Address: 13715 Rider Trail North,	Due Date Requested: 3/18/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Plant Wansley Ash Pond	Project #: 68027766			
Site:	SSOW#:			

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, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Ra226Ra228_GFPC/ Combined Radium-226 and Radium-228	9320_Ra228/PrecSep_0 Radium 228	9315_Ra226/PrecSep_21 Radium 226	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
WAN-WGWA-1 (680-246862-1)	2/13/24	12:15 Eastern		Water			X	X	X	2	
WAN-WGWA-2 (680-246862-2)	2/13/24	10:55 Eastern		Water			X	X	X	2	
WAN-WGWA-3 (680-246862-3)	2/13/24	11:07 Eastern		Water			X	X	X	2	
WAN-WGWA-4 (680-246862-4)	2/13/24	12:05 Eastern		Water			X	X	X	2	
WAN-WGWA-6 (680-246862-5)	2/13/24	13:08 Eastern		Water			X	X	X	2	
WAN-WGWC-20 (680-246862-6)	2/13/24	14:00 Eastern		Water			X	X	X	2	
WAN-WGWC-8 (680-246862-7)	2/13/24	15:30 Eastern		Water			X	X	X	2	
WAN-AP1-FB-07 (680-246862-8)	2/13/24	15:15 Eastern		Water			X	X	X	2	
WAN-WGWA-7 (680-246862-9)	2/13/24	16:20 Eastern		Water			X	X	X	2	

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

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	2/20/24 1330	Eurofins	Sierra Worthington	FEB 21 2024 0840	EMSN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 06/08/2021

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-764159.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida; State - Georgia		Job #: 680-246862-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 3/18/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Plant Wansley Ash Pond	Project #: 68027766			
Site:	SSOW#:			

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
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Ra226Ra228_GFPC/ Combined Radium-226 and Radium-228	9320_Ra228/PrecSep_0 Radium 228	9315_Ra226/PrecSep_21 Radium 226	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
WAN-WGWA-18 (680-246862-10)	2/13/24	11:55 Eastern		Water			X	X	X	2	
WAN-AP1-FD-01 (680-246862-11)	2/14/24	Eastern		Water			X	X	X	2	
WAN-WGWC-9 (680-246862-12)	2/14/24	13:45 Eastern		Water			X	X	X	2	
WAN-WGWC-28D (680-246862-13)	2/14/24	12:20 Eastern		Water			X	X	X	2	
WAN-AP1-EB-01 (680-246862-14)	2/14/24	12:50 Eastern		Water			X	X	X	2	
WAN-WGWC-24 (680-246862-15)	2/14/24	15:30 Eastern		Water			X	X	X	2	
WAN-WGWC-12 (680-246862-16)	2/14/24	14:35 Eastern		Water			X	X	X	2	
WAN-WGWC-22 (680-246862-17)	2/14/24	11:40 Eastern		Water			X	X	X	2	

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

Possible Hazard Identification
Unconfirmed

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
C. Mno	2/20/24 1330		Sierra Worthington	FEB 21 2024 0840	ETASR

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

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-246862-2

Login Number: 246862

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-246862-2

Login Number: 246862
List Number: 2
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 02/21/24 01:21 PM

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/5/2024 4:07:19 PM

JOB DESCRIPTION

Plant Wansley Ash Pond

JOB NUMBER

680-246872-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

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

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

Authorization



Generated
3/5/2024 4:07:19 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

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

Job ID: 680-246872-1

Qualifiers

HPLC/IC

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

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.

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

Sample Summary

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

Job ID: 680-246872-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-246872-1	WAN-WGWC-10	Water	02/15/24 12:20	02/17/24 09:52
680-246872-2	WAN-WGWC-11	Water	02/16/24 09:50	02/17/24 09:52
680-246872-3	WAN-WGWC-13	Water	02/15/24 15:55	02/17/24 09:52
680-246872-4	WAN-WGWC-14A	Water	02/15/24 16:10	02/17/24 09:52
680-246872-5	WAN-WGWC-15	Water	02/15/24 16:35	02/17/24 09:52
680-246872-6	WAN-WGWC-16	Water	02/15/24 14:30	02/17/24 09:52
680-246872-7	WAN-WGWC-17	Water	02/15/24 16:20	02/17/24 09:52
680-246872-8	WAN-WGWC-19	Water	02/15/24 13:46	02/17/24 09:52
680-246872-9	WAN-WGWC-21	Water	02/15/24 10:38	02/17/24 09:52
680-246872-10	WAN-WGWC-23	Water	02/15/24 10:50	02/17/24 09:52
680-246872-11	WAN-WGWC-25	Water	02/15/24 13:30	02/17/24 09:52
680-246872-12	WAN-WGWC-27	Water	02/15/24 13:40	02/17/24 09:52
680-246872-13	WAN-PZ-26D	Water	02/15/24 10:50	02/17/24 09:52
680-246872-14	WAN-AP1-FD-02	Water	02/15/24 00:00	02/17/24 09:52
680-246872-15	WAN-AP1-FD-03	Water	02/16/24 00:00	02/17/24 09:52
680-246872-16	WAN-AP1-FB-08	Water	02/15/24 13:05	02/17/24 09:52
680-246872-17	WAN-AP1-FB-09	Water	02/15/24 17:17	02/17/24 09:52
680-246872-18	WAN-AP1-EB-02	Water	02/15/24 11:35	02/17/24 09:52
680-246872-19	WAN-AP1-EB-03	Water	02/15/24 16:50	02/17/24 09:52
680-246872-20	WAN-WGWA-5	Water	02/16/24 11:15	02/17/24 09:52

Job ID: 680-246872-1 — Eurofins Savannah

Job Narrative
680-246872-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 2/17/2024 9:52 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 0.1°C, 2.3°C, 2.4°C, 2.8°C, 3.0°C, 3.3°C and 3.4°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
Method 2540C: A lesser volume of sample was used for the following samples due to the nature of the sample matrix resulting in elevated reporting limits: WAN-WGWC-15 (680-246872-5), WAN-WGWC-16 (680-246872-6), WAN-WGWC-21 (680-246872-9), WAN-WGWC-25 (680-246872-11), WAN-WGWC-27 (680-246872-12), WAN-PZ-26D (680-246872-13) and WAN-AP1-FD-02 (680-246872-14).

Method 2540C: The sample duplicate precision for the following sample associated with analytical batch 680-823618 was outside control limits: (680-246862-E-17 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

Method 2540C: The sample duplicate precision for the following sample associated with analytical batch 680-824083 was outside control limits: (680-246872-C-13 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

Method SM4500_S2_F: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-823999 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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

Job ID: 680-246872-1

Client Sample ID: WAN-WGWC-10

Lab Sample ID: 680-246872-1

Date Collected: 02/15/24 12:20

Matrix: Water

Date Received: 02/17/24 09:52

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**3.2**		1.0	0.50	mg/L			03/01/24 17:31	1
Fluoride	<0.20		0.40	0.20	mg/L			03/01/24 17:31	1
Chloride	**1.8**		1.0	0.20	mg/L			03/01/24 17:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:41	02/20/24 18:04	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:41	02/20/24 18:04	1
Barium	**0.034**		0.010	0.00089	mg/L		02/20/24 05:41	02/20/24 18:04	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:41	02/20/24 18:04	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:41	02/20/24 18:04	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:41	02/20/24 18:04	1
Calcium	**7.7**		0.50	0.14	mg/L		02/20/24 05:41	02/20/24 18:04	1
Chromium	**0.0036**		0.0020	0.0012	mg/L		02/20/24 05:41	02/20/24 18:04	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:41	02/20/24 18:04	1
Iron	<0.012		0.050	0.012	mg/L		02/20/24 05:41	02/20/24 18:04	1
Lead	**0.00070**	**J**	0.0010	0.00021	mg/L		02/20/24 05:41	02/20/24 18:04	1
Lithium	**0.0088**		0.0050	0.0020	mg/L		02/20/24 05:41	02/20/24 18:04	1
Magnesium	**1.7**		0.50	0.023	mg/L		02/20/24 05:41	02/20/24 18:04	1
Manganese	**0.015**		0.0050	0.0022	mg/L		02/20/24 05:41	02/20/24 18:04	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:41	02/20/24 18:04	1
Potassium	**1.9**		0.50	0.044	mg/L		02/20/24 05:41	02/20/24 18:04	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:41	02/20/24 18:04	1
Sodium	**3.6**		0.50	0.20	mg/L		02/20/24 05:41	02/20/24 18:04	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:41	02/20/24 18:04	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:18	02/21/24 17:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**34**		5.0	5.0	mg/L			02/20/24 23:35	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**34**		5.0	5.0	mg/L			02/20/24 23:35	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/20/24 23:35	1
Total Dissolved Solids (SM 2540C-2011)	**53**		10	10	mg/L			02/20/24 14:24	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/22/24 11:08	1

Client Sample ID: WAN-WGWC-11

Lab Sample ID: 680-246872-2

Date Collected: 02/16/24 09:50

Matrix: Water

Date Received: 02/17/24 09:52

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2.1**		1.0	0.50	mg/L			03/01/24 17:48	1
Fluoride	<0.20		0.40	0.20	mg/L			03/01/24 17:48	1
Chloride	**4.3**		1.0	0.20	mg/L			03/01/24 17:48	1

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

Job ID: 680-246872-1

Client Sample ID: WAN-WGWC-11

Lab Sample ID: 680-246872-2

Date Collected: 02/16/24 09:50

Matrix: Water

Date Received: 02/17/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:41	02/20/24 18:07	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:41	02/20/24 18:07	1
Barium	**0.042**		0.010	0.00089	mg/L		02/20/24 05:41	02/20/24 18:07	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:41	02/20/24 18:07	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:41	02/20/24 18:07	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:41	02/20/24 18:07	1
Calcium	**1.6**		0.50	0.14	mg/L		02/20/24 05:41	02/20/24 18:07	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:41	02/20/24 18:07	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:41	02/20/24 18:07	1
Iron	<0.012		0.050	0.012	mg/L		02/20/24 05:41	02/20/24 18:07	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:41	02/20/24 18:07	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/24 05:41	02/20/24 18:07	1
Magnesium	**1.2**		0.50	0.023	mg/L		02/20/24 05:41	02/20/24 18:07	1
Manganese	**0.0083**		0.0050	0.0022	mg/L		02/20/24 05:41	02/20/24 18:07	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:41	02/20/24 18:07	1
Potassium	**1.3**		0.50	0.044	mg/L		02/20/24 05:41	02/20/24 18:07	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:41	02/20/24 18:07	1
Sodium	**3.1**		0.50	0.20	mg/L		02/20/24 05:41	02/20/24 18:07	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:41	02/20/24 18:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:18	02/21/24 17:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**12**		5.0	5.0	mg/L			02/23/24 01:14	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**12**		5.0	5.0	mg/L			02/23/24 01:14	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 01:14	1
Total Dissolved Solids (SM 2540C-2011)	**31**		10	10	mg/L			02/22/24 15:14	1
Sulfide (SM 4500 S2 F-2011)	<0.89		0.89	0.89	mg/L			02/22/24 11:08	1

Client Sample ID: WAN-WGWC-13

Lab Sample ID: 680-246872-3

Date Collected: 02/15/24 15:55

Matrix: Water

Date Received: 02/17/24 09:52

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**4.3**		1.0	0.50	mg/L			03/01/24 18:05	1
Fluoride	**0.21**	**J**	0.40	0.20	mg/L			03/01/24 18:05	1
Chloride	**1.3**		1.0	0.20	mg/L			03/01/24 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:41	02/20/24 18:09	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:41	02/20/24 18:09	1
Barium	**0.037**		0.010	0.00089	mg/L		02/20/24 05:41	02/20/24 18:09	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:41	02/20/24 18:09	1

Client Sample ID: WAN-WGWC-13

Lab Sample ID: 680-246872-3

Date Collected: 02/15/24 15:55

Matrix: Water

Date Received: 02/17/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:41	02/20/24 18:09	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:41	02/20/24 18:09	1
Calcium	**3.7**		0.50	0.14	mg/L		02/20/24 05:41	02/20/24 18:09	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:41	02/20/24 18:09	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:41	02/20/24 18:09	1
Iron	**0.056**		0.050	0.012	mg/L		02/20/24 05:41	02/20/24 18:09	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:41	02/20/24 18:09	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/24 05:41	02/20/24 18:09	1
Magnesium	**0.51**		0.50	0.023	mg/L		02/20/24 05:41	02/20/24 18:09	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/20/24 05:41	02/20/24 18:09	1
Molybdenum	**0.0012**	**J**	0.015	0.00086	mg/L		02/20/24 05:41	02/20/24 18:09	1
Potassium	**1.7**		0.50	0.044	mg/L		02/20/24 05:41	02/20/24 18:09	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:41	02/20/24 18:09	1
Sodium	**9.3**		0.50	0.20	mg/L		02/20/24 05:41	02/20/24 18:09	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:41	02/20/24 18:09	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:18	02/21/24 17:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**33**		5.0	5.0	mg/L			02/20/24 23:43	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**33**		5.0	5.0	mg/L			02/20/24 23:43	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/20/24 23:43	1
Total Dissolved Solids (SM 2540C-2011)	**84**		10	10	mg/L			02/20/24 14:24	1
Sulfide (SM 4500 S2 F-2011)	<0.86		0.86	0.86	mg/L			02/22/24 11:08	1

Client Sample ID: WAN-WGWC-14A

Lab Sample ID: 680-246872-4

Date Collected: 02/15/24 16:10

Matrix: Water

Date Received: 02/17/24 09:52

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**1.2**		1.0	0.50	mg/L			03/01/24 18:21	1
Fluoride	<0.20		0.40	0.20	mg/L			03/01/24 18:21	1
Chloride	**2.5**		1.0	0.20	mg/L			03/01/24 18:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:41	02/20/24 18:12	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:41	02/20/24 18:12	1
Barium	**0.027**		0.010	0.00089	mg/L		02/20/24 05:41	02/20/24 18:12	1
Beryllium	**0.00026**	**J**	0.0025	0.00020	mg/L		02/20/24 05:41	02/20/24 18:12	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:41	02/20/24 18:12	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:41	02/20/24 18:12	1
Calcium	**0.66**		0.50	0.14	mg/L		02/20/24 05:41	02/20/24 18:12	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:41	02/20/24 18:12	1

Client Sample ID: WAN-WGWC-14A

Lab Sample ID: 680-246872-4

Date Collected: 02/15/24 16:10

Matrix: Water

Date Received: 02/17/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	**0.0017**	**J**	0.0025	0.00022	mg/L		02/20/24 05:41	02/20/24 18:12	1
Iron	**0.012**	**J**	0.050	0.012	mg/L		02/20/24 05:41	02/20/24 18:12	1
Lead	**0.00029**	**J**	0.0010	0.00021	mg/L		02/20/24 05:41	02/20/24 18:12	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/24 05:41	02/20/24 18:12	1
Magnesium	**0.67**		0.50	0.023	mg/L		02/20/24 05:41	02/20/24 18:12	1
Manganese	**0.041**		0.0050	0.0022	mg/L		02/20/24 05:41	02/20/24 18:12	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:41	02/20/24 18:12	1
Potassium	**1.7**		0.50	0.044	mg/L		02/20/24 05:41	02/20/24 18:12	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:41	02/20/24 18:12	1
Sodium	**3.6**		0.50	0.20	mg/L		02/20/24 05:41	02/20/24 18:12	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:41	02/20/24 18:12	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080	F2	0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 15:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**12**		5.0	5.0	mg/L			02/21/24 00:22	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**12**		5.0	5.0	mg/L			02/21/24 00:22	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/21/24 00:22	1
Total Dissolved Solids (SM 2540C-2011)	**31**		10	10	mg/L			02/20/24 14:24	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/22/24 11:08	1

Client Sample ID: WAN-WGWC-15

Lab Sample ID: 680-246872-5

Date Collected: 02/15/24 16:35

Matrix: Water

Date Received: 02/17/24 09:52

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**16**		1.0	0.50	mg/L			03/01/24 18:38	1
Fluoride	**0.89**		0.40	0.20	mg/L			03/01/24 18:38	1
Chloride	**1.4**		1.0	0.20	mg/L			03/01/24 18:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:47	02/20/24 16:06	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:47	02/20/24 16:06	1
Barium	**0.031**	**B**	0.010	0.00089	mg/L		02/20/24 05:47	02/20/24 16:06	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:47	02/20/24 16:06	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:47	02/20/24 16:06	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:47	02/20/24 16:06	1
Calcium	**31**		0.50	0.14	mg/L		02/20/24 05:47	02/20/24 16:06	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:47	02/20/24 16:06	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:47	02/20/24 16:06	1
Iron	**0.016**	**J**	0.050	0.012	mg/L		02/20/24 05:47	02/20/24 16:06	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:47	02/20/24 16:06	1
Lithium	**0.0055**		0.0050	0.0020	mg/L		02/20/24 05:47	02/20/24 16:06	1

Client Sample ID: WAN-WGWC-15

Lab Sample ID: 680-246872-5

Date Collected: 02/15/24 16:35

Matrix: Water

Date Received: 02/17/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**4.9**		0.50	0.023	mg/L		02/20/24 05:47	02/20/24 16:06	1
Manganese	**0.54**	**F1**	0.0050	0.0022	mg/L		02/20/24 05:47	02/20/24 16:06	1
Molybdenum	**0.0021**	**J**	0.015	0.00086	mg/L		02/20/24 05:47	02/20/24 16:06	1
Potassium	**1.6**		0.50	0.044	mg/L		02/20/24 05:47	02/20/24 16:06	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:47	02/20/24 16:06	1
Sodium	**9.0**		0.50	0.20	mg/L		02/20/24 05:47	02/20/24 16:06	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:47	02/20/24 16:06	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 15:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**100**		5.0	5.0	mg/L			02/21/24 00:14	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**100**		5.0	5.0	mg/L			02/21/24 00:14	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/21/24 00:14	1
Total Dissolved Solids (SM 2540C-2011)	**130**		40	40	mg/L			02/20/24 14:24	1
Sulfide (SM 4500 S2 F-2011)	<0.89		0.89	0.89	mg/L			02/22/24 11:08	1

Client Sample ID: WAN-WGWC-16

Lab Sample ID: 680-246872-6

Date Collected: 02/15/24 14:30

Matrix: Water

Date Received: 02/17/24 09:52

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**50**		1.0	0.50	mg/L			03/01/24 21:11	1
Fluoride	<0.20		0.40	0.20	mg/L			03/01/24 21:11	1
Chloride	**32**		1.0	0.20	mg/L			03/01/24 21:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:47	02/20/24 16:15	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:47	02/20/24 16:15	1
Barium	**0.045**	**B**	0.010	0.00089	mg/L		02/20/24 05:47	02/20/24 16:15	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:47	02/20/24 16:15	1
Boron	**0.74**		0.080	0.022	mg/L		02/20/24 05:47	02/20/24 16:15	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:47	02/20/24 16:15	1
Calcium	**20**		0.50	0.14	mg/L		02/20/24 05:47	02/20/24 16:15	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:47	02/20/24 16:15	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:47	02/20/24 16:15	1
Iron	**0.023**	**J**	0.050	0.012	mg/L		02/20/24 05:47	02/20/24 16:15	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:47	02/20/24 16:15	1
Lithium	**0.0032**	**J**	0.0050	0.0020	mg/L		02/20/24 05:47	02/20/24 16:15	1
Magnesium	**6.4**		0.50	0.023	mg/L		02/20/24 05:47	02/20/24 16:15	1
Manganese	**0.011**		0.0050	0.0022	mg/L		02/20/24 05:47	02/20/24 16:15	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:47	02/20/24 16:15	1
Potassium	**2.5**		0.50	0.044	mg/L		02/20/24 05:47	02/20/24 16:15	1

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

Job ID: 680-246872-1

Client Sample ID: WAN-WGWC-16

Lab Sample ID: 680-246872-6

Date Collected: 02/15/24 14:30

Matrix: Water

Date Received: 02/17/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:47	02/20/24 16:15	1
Sodium	**9.8**		0.50	0.20	mg/L		02/20/24 05:47	02/20/24 16:15	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:47	02/20/24 16:15	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 16:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**10**		5.0	5.0	mg/L			02/23/24 03:31	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**10**		5.0	5.0	mg/L			02/23/24 03:31	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 03:31	1
Total Dissolved Solids (SM 2540C-2011)	**150**		40	40	mg/L			02/22/24 15:14	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/22/24 11:08	1

Client Sample ID: WAN-WGWC-17

Lab Sample ID: 680-246872-7

Date Collected: 02/15/24 16:20

Matrix: Water

Date Received: 02/17/24 09:52

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**5.4**		1.0	0.50	mg/L			03/01/24 20:20	1
Fluoride	<0.20		0.40	0.20	mg/L			03/01/24 20:20	1
Chloride	**1.6**		1.0	0.20	mg/L			03/01/24 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:47	02/20/24 16:18	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:47	02/20/24 16:18	1
Barium	**0.011**	**B**	0.010	0.00089	mg/L		02/20/24 05:47	02/20/24 16:18	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:47	02/20/24 16:18	1
Boron	**0.027**	**J**	0.080	0.022	mg/L		02/20/24 05:47	02/20/24 16:18	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:47	02/20/24 16:18	1
Calcium	**6.2**		0.50	0.14	mg/L		02/20/24 05:47	02/20/24 16:18	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:47	02/20/24 16:18	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:47	02/20/24 16:18	1
Iron	**0.086**		0.050	0.012	mg/L		02/20/24 05:47	02/20/24 16:18	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:47	02/20/24 16:18	1
Lithium	**0.0026**	**J**	0.0050	0.0020	mg/L		02/20/24 05:47	02/20/24 16:18	1
Magnesium	**3.5**		0.50	0.023	mg/L		02/20/24 05:47	02/20/24 16:18	1
Manganese	**0.0078**		0.0050	0.0022	mg/L		02/20/24 05:47	02/20/24 16:18	1
Molybdenum	**0.0023**	**J**	0.015	0.00086	mg/L		02/20/24 05:47	02/20/24 16:18	1
Potassium	**1.7**		0.50	0.044	mg/L		02/20/24 05:47	02/20/24 16:18	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:47	02/20/24 16:18	1
Sodium	**8.4**		0.50	0.20	mg/L		02/20/24 05:47	02/20/24 16:18	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:47	02/20/24 16:18	1

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

Job ID: 680-246872-1

Client Sample ID: WAN-WGWC-17

Lab Sample ID: 680-246872-7

Date Collected: 02/15/24 16:20

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 16:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**48**		5.0	5.0	mg/L			02/23/24 01:58	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**48**		5.0	5.0	mg/L			02/23/24 01:58	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 01:58	1
Total Dissolved Solids (SM 2540C-2011)	**79**		10	10	mg/L			02/22/24 15:14	1
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			02/22/24 11:08	1

Client Sample ID: WAN-WGWC-19

Lab Sample ID: 680-246872-8

Date Collected: 02/15/24 13:46

Matrix: Water

Date Received: 02/17/24 09:52

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**5.7**		1.0	0.50	mg/L			03/01/24 21:27	1
Fluoride	**0.40**		0.40	0.20	mg/L			03/01/24 21:27	1
Chloride	**3.5**		1.0	0.20	mg/L			03/01/24 21:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:47	02/20/24 16:21	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:47	02/20/24 16:21	1
Barium	**0.0012**	**J B**	0.010	0.00089	mg/L		02/20/24 05:47	02/20/24 16:21	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:47	02/20/24 16:21	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:47	02/20/24 16:21	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:47	02/20/24 16:21	1
Calcium	**14**		0.50	0.14	mg/L		02/20/24 05:47	02/20/24 16:21	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:47	02/20/24 16:21	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:47	02/20/24 16:21	1
Iron	**0.079**		0.050	0.012	mg/L		02/20/24 05:47	02/20/24 16:21	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:47	02/20/24 16:21	1
Lithium	**0.056**		0.0050	0.0020	mg/L		02/20/24 05:47	02/20/24 16:21	1
Magnesium	**10**		0.50	0.023	mg/L		02/20/24 05:47	02/20/24 16:21	1
Manganese	**0.013**		0.0050	0.0022	mg/L		02/20/24 05:47	02/20/24 16:21	1
Molybdenum	**0.0014**	**J**	0.015	0.00086	mg/L		02/20/24 05:47	02/20/24 16:21	1
Potassium	**1.5**		0.50	0.044	mg/L		02/20/24 05:47	02/20/24 16:21	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:47	02/20/24 16:21	1
Sodium	**7.9**		0.50	0.20	mg/L		02/20/24 05:47	02/20/24 16:21	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:47	02/20/24 16:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 16:07	1

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

Job ID: 680-246872-1

Client Sample ID: WAN-WGWC-19

Lab Sample ID: 680-246872-8

Date Collected: 02/15/24 13:46

Matrix: Water

Date Received: 02/17/24 09:52

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**93**		5.0	5.0	mg/L			02/23/24 02:12	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**93**		5.0	5.0	mg/L			02/23/24 02:12	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 02:12	1
Total Dissolved Solids (SM 2540C-2011)	**100**		10	10	mg/L			02/22/24 15:14	1
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			02/22/24 11:08	1

Client Sample ID: WAN-WGWC-21

Lab Sample ID: 680-246872-9

Date Collected: 02/15/24 10:38

Matrix: Water

Date Received: 02/17/24 09:52

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**420**		5.0	2.5	mg/L			03/01/24 21:44	5
Fluoride	**2.2**		2.0	1.0	mg/L			03/01/24 21:44	5
Chloride	**59**		5.0	1.0	mg/L			03/01/24 21:44	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:47	02/20/24 16:24	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:47	02/20/24 16:24	1
Barium	**0.0064**	**J B**	0.010	0.00089	mg/L		02/20/24 05:47	02/20/24 16:24	1
Beryllium	**0.00021**	**J**	0.0025	0.00020	mg/L		02/20/24 05:47	02/20/24 16:24	1
Boron	**0.14**		0.080	0.022	mg/L		02/20/24 05:47	02/20/24 16:24	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:47	02/20/24 16:24	1
Calcium	**73**		0.50	0.14	mg/L		02/20/24 05:47	02/20/24 16:24	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:47	02/20/24 16:24	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:47	02/20/24 16:24	1
Iron	**0.27**		0.050	0.012	mg/L		02/20/24 05:47	02/20/24 16:24	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:47	02/20/24 16:24	1
Lithium	**0.074**		0.0050	0.0020	mg/L		02/20/24 05:47	02/20/24 16:24	1
Magnesium	**8.9**		0.50	0.023	mg/L		02/20/24 05:47	02/20/24 16:24	1
Manganese	**0.069**		0.0050	0.0022	mg/L		02/20/24 05:47	02/20/24 16:24	1
Molybdenum	**0.023**		0.015	0.00086	mg/L		02/20/24 05:47	02/20/24 16:24	1
Potassium	**3.3**		0.50	0.044	mg/L		02/20/24 05:47	02/20/24 16:24	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:47	02/20/24 16:24	1
Sodium	**190**		0.50	0.20	mg/L		02/20/24 05:47	02/20/24 16:24	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:47	02/20/24 16:24	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 16:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**110**		5.0	5.0	mg/L			02/23/24 03:55	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**110**		5.0	5.0	mg/L			02/23/24 03:55	1

Client Sample ID: WAN-WGWC-21

Lab Sample ID: 680-246872-9

Date Collected: 02/15/24 10:38

Matrix: Water

Date Received: 02/17/24 09:52

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 03:55	1
Total Dissolved Solids (SM 2540C-2011)	**740**		40	40	mg/L			02/22/24 15:14	1
Sulfide (SM 4500 S2 F-2011)	**0.99**		0.86	0.86	mg/L			02/22/24 11:08	1

Client Sample ID: WAN-WGWC-23

Lab Sample ID: 680-246872-10

Date Collected: 02/15/24 10:50

Matrix: Water

Date Received: 02/17/24 09:52

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**8.7**		1.0	0.50	mg/L			03/01/24 22:01	1
Fluoride	<0.20		0.40	0.20	mg/L			03/01/24 22:01	1
Chloride	**3.5**		1.0	0.20	mg/L			03/01/24 22:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:47	02/20/24 16:26	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:47	02/20/24 16:26	1
Barium	**0.0050**	**J B**	0.010	0.00089	mg/L		02/20/24 05:47	02/20/24 16:26	1
Beryllium	**0.0013**	**J**	0.0025	0.00020	mg/L		02/20/24 05:47	02/20/24 16:26	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:47	02/20/24 16:26	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:47	02/20/24 16:26	1
Calcium	**2.5**		0.50	0.14	mg/L		02/20/24 05:47	02/20/24 16:26	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:47	02/20/24 16:26	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:47	02/20/24 16:26	1
Iron	<0.012		0.050	0.012	mg/L		02/20/24 05:47	02/20/24 16:26	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:47	02/20/24 16:26	1
Lithium	**0.0044**	**J**	0.0050	0.0020	mg/L		02/20/24 05:47	02/20/24 16:26	1
Magnesium	**0.45**	**J**	0.50	0.023	mg/L		02/20/24 05:47	02/20/24 16:26	1
Manganese	**0.0032**	**J**	0.0050	0.0022	mg/L		02/20/24 05:47	02/20/24 16:26	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:47	02/20/24 16:26	1
Potassium	**2.3**		0.50	0.044	mg/L		02/20/24 05:47	02/20/24 16:26	1
Selenium	**0.0030**	**J**	0.0050	0.00099	mg/L		02/20/24 05:47	02/20/24 16:26	1
Sodium	**13**		0.50	0.20	mg/L		02/20/24 05:47	02/20/24 16:26	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:47	02/20/24 16:26	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 16:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**25**		5.0	5.0	mg/L			02/23/24 04:04	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**25**		5.0	5.0	mg/L			02/23/24 04:04	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 04:04	1
Total Dissolved Solids (SM 2540C-2011)	**76**		10	10	mg/L			02/22/24 15:14	1

Client Sample ID: WAN-WGWC-23

Lab Sample ID: 680-246872-10

Date Collected: 02/15/24 10:50

Matrix: Water

Date Received: 02/17/24 09:52

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.86		0.86	0.86	mg/L			02/22/24 11:08	1

Client Sample ID: WAN-WGWC-25

Lab Sample ID: 680-246872-11

Date Collected: 02/15/24 13:30

Matrix: Water

Date Received: 02/17/24 09:52

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**21**		1.0	0.50	mg/L			03/01/24 22:18	1
Fluoride	<0.20		0.40	0.20	mg/L			03/01/24 22:18	1
Chloride	**12**		1.0	0.20	mg/L			03/01/24 22:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:47	02/20/24 16:35	1
Arsenic	**0.00096**	**J**	0.0010	0.00086	mg/L		02/20/24 05:47	02/20/24 16:35	1
Barium	**0.14**	**B**	0.010	0.00089	mg/L		02/20/24 05:47	02/20/24 16:35	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:47	02/20/24 16:35	1
Boron	**0.29**		0.080	0.022	mg/L		02/20/24 05:47	02/20/24 16:35	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:47	02/20/24 16:35	1
Calcium	**29**		0.50	0.14	mg/L		02/20/24 05:47	02/20/24 16:35	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:47	02/20/24 16:35	1
Cobalt	**0.0062**		0.0025	0.00022	mg/L		02/20/24 05:47	02/20/24 16:35	1
Iron	**4.0**		0.050	0.012	mg/L		02/20/24 05:47	02/20/24 16:35	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:47	02/20/24 16:35	1
Lithium	**0.0063**		0.0050	0.0020	mg/L		02/20/24 05:47	02/20/24 16:35	1
Magnesium	**6.0**		0.50	0.023	mg/L		02/20/24 05:47	02/20/24 16:35	1
Manganese	**1.1**		0.0050	0.0022	mg/L		02/20/24 05:47	02/20/24 16:35	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:47	02/20/24 16:35	1
Potassium	**6.3**		0.50	0.044	mg/L		02/20/24 05:47	02/20/24 16:35	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:47	02/20/24 16:35	1
Sodium	**7.7**		0.50	0.20	mg/L		02/20/24 05:47	02/20/24 16:35	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:47	02/20/24 16:35	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 16:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**94**		5.0	5.0	mg/L			02/23/24 02:21	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**94**		5.0	5.0	mg/L			02/23/24 02:21	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 02:21	1
Total Dissolved Solids (SM 2540C-2011)	**130**		40	40	mg/L			02/22/24 15:14	1
Sulfide (SM 4500 S2 F-2011)	<0.86		0.86	0.86	mg/L			02/22/24 11:08	1

Client Sample ID: WAN-WGWC-27

Lab Sample ID: 680-246872-12

Date Collected: 02/15/24 13:40

Matrix: Water

Date Received: 02/17/24 09:52

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**37**		1.0	0.50	mg/L			03/01/24 22:35	1
Fluoride	**1.2**		0.40	0.20	mg/L			03/01/24 22:35	1
Chloride	**29**		1.0	0.20	mg/L			03/01/24 22:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00056**	**J**	0.0020	0.00034	mg/L		02/20/24 05:47	02/20/24 16:38	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:47	02/20/24 16:38	1
Barium	**0.0040**	**J B**	0.010	0.00089	mg/L		02/20/24 05:47	02/20/24 16:38	1
Beryllium	**0.0012**	**J**	0.0025	0.00020	mg/L		02/20/24 05:47	02/20/24 16:38	1
Boron	**0.26**		0.080	0.022	mg/L		02/20/24 05:47	02/20/24 16:38	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:47	02/20/24 16:38	1
Calcium	**22**		0.50	0.14	mg/L		02/20/24 05:47	02/20/24 16:38	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:47	02/20/24 16:38	1
Cobalt	**0.0018**	**J**	0.0025	0.00022	mg/L		02/20/24 05:47	02/20/24 16:38	1
Iron	**0.87**		0.050	0.012	mg/L		02/20/24 05:47	02/20/24 16:38	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:47	02/20/24 16:38	1
Lithium	**0.038**		0.0050	0.0020	mg/L		02/20/24 05:47	02/20/24 16:38	1
Magnesium	**3.4**		0.50	0.023	mg/L		02/20/24 05:47	02/20/24 16:38	1
Manganese	**0.37**		0.0050	0.0022	mg/L		02/20/24 05:47	02/20/24 16:38	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:47	02/20/24 16:38	1
Potassium	**2.0**		0.50	0.044	mg/L		02/20/24 05:47	02/20/24 16:38	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:47	02/20/24 16:38	1
Sodium	**15**		0.50	0.20	mg/L		02/20/24 05:47	02/20/24 16:38	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:47	02/20/24 16:38	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 16:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**33**		5.0	5.0	mg/L			02/23/24 03:40	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**33**		5.0	5.0	mg/L			02/23/24 03:40	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 03:40	1
Total Dissolved Solids (SM 2540C-2011)	**170**		40	40	mg/L			02/22/24 15:14	1
Sulfide (SM 4500 S2 F-2011)	**1.2**		0.86	0.86	mg/L			02/22/24 11:08	1

Client Sample ID: WAN-PZ-26D

Lab Sample ID: 680-246872-13

Date Collected: 02/15/24 10:50

Matrix: Water

Date Received: 02/17/24 09:52

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**36**		1.0	0.50	mg/L			03/01/24 22:52	1
Fluoride	**0.29**	**J**	0.40	0.20	mg/L			03/01/24 22:52	1
Chloride	**14**		1.0	0.20	mg/L			03/01/24 22:52	1

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

Job ID: 680-246872-1

Client Sample ID: WAN-PZ-26D

Lab Sample ID: 680-246872-13

Date Collected: 02/15/24 10:50

Matrix: Water

Date Received: 02/17/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:47	02/20/24 16:41	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:47	02/20/24 16:41	1
Barium	**0.021**	**B**	0.010	0.00089	mg/L		02/20/24 05:47	02/20/24 16:41	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:47	02/20/24 16:41	1
Boron	**0.072**	**J**	0.080	0.022	mg/L		02/20/24 05:47	02/20/24 16:41	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:47	02/20/24 16:41	1
Calcium	**15**		0.50	0.14	mg/L		02/20/24 05:47	02/20/24 16:41	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:47	02/20/24 16:41	1
Cobalt	**0.0069**		0.0025	0.00022	mg/L		02/20/24 05:47	02/20/24 16:41	1
Iron	**1.5**		0.050	0.012	mg/L		02/20/24 05:47	02/20/24 16:41	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:47	02/20/24 16:41	1
Lithium	**0.031**		0.0050	0.0020	mg/L		02/20/24 05:47	02/20/24 16:41	1
Magnesium	**3.0**		0.50	0.023	mg/L		02/20/24 05:47	02/20/24 16:41	1
Manganese	**0.13**		0.0050	0.0022	mg/L		02/20/24 05:47	02/20/24 16:41	1
Molybdenum	**0.0024**	**J**	0.015	0.00086	mg/L		02/20/24 05:47	02/20/24 16:41	1
Potassium	**1.8**		0.50	0.044	mg/L		02/20/24 05:47	02/20/24 16:41	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:47	02/20/24 16:41	1
Sodium	**26**		0.50	0.20	mg/L		02/20/24 05:47	02/20/24 16:41	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:47	02/20/24 16:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 16:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**61**		5.0	5.0	mg/L			02/23/24 01:35	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**61**		5.0	5.0	mg/L			02/23/24 01:35	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 01:35	1
Total Dissolved Solids (SM 2540C-2011)	**160**		40	40	mg/L			02/22/24 15:14	1
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			02/22/24 11:08	1

Client Sample ID: WAN-AP1-FD-02

Lab Sample ID: 680-246872-14

Date Collected: 02/15/24 00:00

Matrix: Water

Date Received: 02/17/24 09:52

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**37**		1.0	0.50	mg/L			03/01/24 23:09	1
Fluoride	**1.2**		0.40	0.20	mg/L			03/01/24 23:09	1
Chloride	**29**		1.0	0.20	mg/L			03/01/24 23:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00046**	**J**	0.0020	0.00034	mg/L		02/20/24 05:47	02/20/24 16:44	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:47	02/20/24 16:44	1
Barium	**0.0040**	**J B**	0.010	0.00089	mg/L		02/20/24 05:47	02/20/24 16:44	1
Beryllium	**0.0013**	**J**	0.0025	0.00020	mg/L		02/20/24 05:47	02/20/24 16:44	1

Client Sample ID: WAN-AP1-FD-02

Lab Sample ID: 680-246872-14

Date Collected: 02/15/24 00:00

Matrix: Water

Date Received: 02/17/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.27**		0.080	0.022	mg/L		02/20/24 05:47	02/20/24 16:44	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:47	02/20/24 16:44	1
Calcium	**22**		0.50	0.14	mg/L		02/20/24 05:47	02/20/24 16:44	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:47	02/20/24 16:44	1
Cobalt	**0.0018**	**J**	0.0025	0.00022	mg/L		02/20/24 05:47	02/20/24 16:44	1
Iron	**0.88**		0.050	0.012	mg/L		02/20/24 05:47	02/20/24 16:44	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:47	02/20/24 16:44	1
Lithium	**0.033**		0.0050	0.0020	mg/L		02/20/24 05:47	02/20/24 16:44	1
Magnesium	**3.5**		0.50	0.023	mg/L		02/20/24 05:47	02/20/24 16:44	1
Manganese	**0.37**		0.0050	0.0022	mg/L		02/20/24 05:47	02/20/24 16:44	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:47	02/20/24 16:44	1
Potassium	**2.1**		0.50	0.044	mg/L		02/20/24 05:47	02/20/24 16:44	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:47	02/20/24 16:44	1
Sodium	**15**		0.50	0.20	mg/L		02/20/24 05:47	02/20/24 16:44	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:47	02/20/24 16:44	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 16:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**35**		5.0	5.0	mg/L			02/23/24 01:50	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**35**		5.0	5.0	mg/L			02/23/24 01:50	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 01:50	1
Total Dissolved Solids (SM 2540C-2011)	**150**		40	40	mg/L			02/22/24 15:14	1
Sulfide (SM 4500 S2 F-2011)	<0.86		0.86	0.86	mg/L			02/22/24 12:59	1

Client Sample ID: WAN-AP1-FD-03

Lab Sample ID: 680-246872-15

Date Collected: 02/16/24 00:00

Matrix: Water

Date Received: 02/17/24 09:52

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**2.2**		1.0	0.50	mg/L			03/01/24 23:26	1
Fluoride	<0.20		0.40	0.20	mg/L			03/01/24 23:26	1
Chloride	**4.3**		1.0	0.20	mg/L			03/01/24 23:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:47	02/20/24 16:47	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:47	02/20/24 16:47	1
Barium	**0.047**	**B**	0.010	0.00089	mg/L		02/20/24 05:47	02/20/24 16:47	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:47	02/20/24 16:47	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:47	02/20/24 16:47	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:47	02/20/24 16:47	1
Calcium	**1.8**		0.50	0.14	mg/L		02/20/24 05:47	02/20/24 16:47	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:47	02/20/24 16:47	1

Client Sample ID: WAN-AP1-FD-03

Lab Sample ID: 680-246872-15

Date Collected: 02/16/24 00:00

Matrix: Water

Date Received: 02/17/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:47	02/20/24 16:47	1
Iron	<0.012		0.050	0.012	mg/L		02/20/24 05:47	02/20/24 16:47	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:47	02/20/24 16:47	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/24 05:47	02/20/24 16:47	1
Magnesium	**1.4**		0.50	0.023	mg/L		02/20/24 05:47	02/20/24 16:47	1
Manganese	**0.0096**		0.0050	0.0022	mg/L		02/20/24 05:47	02/20/24 16:47	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:47	02/20/24 16:47	1
Potassium	**1.3**		0.50	0.044	mg/L		02/20/24 05:47	02/20/24 16:47	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:47	02/20/24 16:47	1
Sodium	**3.5**		0.50	0.20	mg/L		02/20/24 05:47	02/20/24 16:47	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:47	02/20/24 16:47	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 16:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**14**		5.0	5.0	mg/L			02/23/24 03:24	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**14**		5.0	5.0	mg/L			02/23/24 03:24	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 03:24	1
Total Dissolved Solids (SM 2540C-2011)	**34**		10	10	mg/L			02/22/24 15:14	1
Sulfide (SM 4500 S2 F-2011)	**1.8**		0.81	0.81	mg/L			02/22/24 12:59	1

Client Sample ID: WAN-AP1-FB-08

Lab Sample ID: 680-246872-16

Date Collected: 02/15/24 13:05

Matrix: Water

Date Received: 02/17/24 09:52

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.50		1.0	0.50	mg/L			03/02/24 00:17	1
Fluoride	<0.20		0.40	0.20	mg/L			03/02/24 00:17	1
Chloride	<0.20		1.0	0.20	mg/L			03/02/24 00:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:47	02/20/24 16:49	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:47	02/20/24 16:49	1
Barium	<0.00089		0.010	0.00089	mg/L		02/20/24 05:47	02/20/24 16:49	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:47	02/20/24 16:49	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:47	02/20/24 16:49	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:47	02/20/24 16:49	1
Calcium	<0.14		0.50	0.14	mg/L		02/20/24 05:47	02/20/24 16:49	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:47	02/20/24 16:49	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:47	02/20/24 16:49	1
Iron	<0.012		0.050	0.012	mg/L		02/20/24 05:47	02/20/24 16:49	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:47	02/20/24 16:49	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/24 05:47	02/20/24 16:49	1

Client Sample ID: WAN-AP1-FB-08

Lab Sample ID: 680-246872-16

Date Collected: 02/15/24 13:05

Matrix: Water

Date Received: 02/17/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	<0.023		0.50	0.023	mg/L		02/20/24 05:47	02/20/24 16:49	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/20/24 05:47	02/20/24 16:49	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:47	02/20/24 16:49	1
Potassium	<0.044		0.50	0.044	mg/L		02/20/24 05:47	02/20/24 16:49	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:47	02/20/24 16:49	1
Sodium	<0.20		0.50	0.20	mg/L		02/20/24 05:47	02/20/24 16:49	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:47	02/20/24 16:49	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 02:27	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 02:27	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 02:27	1
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/22/24 15:14	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/22/24 12:59	1

Client Sample ID: WAN-AP1-FB-09

Lab Sample ID: 680-246872-17

Date Collected: 02/15/24 17:17

Matrix: Water

Date Received: 02/17/24 09:52

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.50		1.0	0.50	mg/L			03/02/24 01:07	1
Fluoride	<0.20		0.40	0.20	mg/L			03/02/24 01:07	1
Chloride	**0.21**	**J**	1.0	0.20	mg/L			03/02/24 01:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:47	02/20/24 16:52	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:47	02/20/24 16:52	1
Barium	<0.00089		0.010	0.00089	mg/L		02/20/24 05:47	02/20/24 16:52	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:47	02/20/24 16:52	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:47	02/20/24 16:52	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:47	02/20/24 16:52	1
Calcium	<0.14		0.50	0.14	mg/L		02/20/24 05:47	02/20/24 16:52	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:47	02/20/24 16:52	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:47	02/20/24 16:52	1
Iron	<0.012		0.050	0.012	mg/L		02/20/24 05:47	02/20/24 16:52	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:47	02/20/24 16:52	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/24 05:47	02/20/24 16:52	1
Magnesium	<0.023		0.50	0.023	mg/L		02/20/24 05:47	02/20/24 16:52	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/20/24 05:47	02/20/24 16:52	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:47	02/20/24 16:52	1
Potassium	<0.044		0.50	0.044	mg/L		02/20/24 05:47	02/20/24 16:52	1

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

Job ID: 680-246872-1

Client Sample ID: WAN-AP1-FB-09

Lab Sample ID: 680-246872-17

Date Collected: 02/15/24 17:17

Matrix: Water

Date Received: 02/17/24 09:52

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:47	02/20/24 16:52	1
Sodium	<0.20		0.50	0.20	mg/L		02/20/24 05:47	02/20/24 16:52	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:47	02/20/24 16:52	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 16:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 01:27	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 01:27	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 01:27	1
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/22/24 15:14	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/22/24 12:59	1

Client Sample ID: WAN-AP1-EB-02

Lab Sample ID: 680-246872-18

Date Collected: 02/15/24 11:35

Matrix: Water

Date Received: 02/17/24 09:52

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.50		1.0	0.50	mg/L			03/02/24 01:24	1
Fluoride	<0.20		0.40	0.20	mg/L			03/02/24 01:24	1
Chloride	**0.31**	**J**	1.0	0.20	mg/L			03/02/24 01:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:47	02/20/24 16:55	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:47	02/20/24 16:55	1
Barium	<0.00089		0.010	0.00089	mg/L		02/20/24 05:47	02/20/24 16:55	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:47	02/20/24 16:55	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:47	02/20/24 16:55	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:47	02/20/24 16:55	1
Calcium	<0.14		0.50	0.14	mg/L		02/20/24 05:47	02/20/24 16:55	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:47	02/20/24 16:55	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:47	02/20/24 16:55	1
Iron	<0.012		0.050	0.012	mg/L		02/20/24 05:47	02/20/24 16:55	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:47	02/20/24 16:55	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/24 05:47	02/20/24 16:55	1
Magnesium	<0.023		0.50	0.023	mg/L		02/20/24 05:47	02/20/24 16:55	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/20/24 05:47	02/20/24 16:55	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:47	02/20/24 16:55	1
Potassium	<0.044		0.50	0.044	mg/L		02/20/24 05:47	02/20/24 16:55	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:47	02/20/24 16:55	1
Sodium	<0.20		0.50	0.20	mg/L		02/20/24 05:47	02/20/24 16:55	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:47	02/20/24 16:55	1

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

Job ID: 680-246872-1

Client Sample ID: WAN-AP1-EB-02

Lab Sample ID: 680-246872-18

Date Collected: 02/15/24 11:35

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 16:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 09:23	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 09:23	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 09:23	1
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/22/24 15:14	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/22/24 12:59	1

Client Sample ID: WAN-AP1-EB-03

Lab Sample ID: 680-246872-19

Date Collected: 02/15/24 16:50

Matrix: Water

Date Received: 02/17/24 09:52

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.50		1.0	0.50	mg/L			03/02/24 01:41	1
Fluoride	<0.20		0.40	0.20	mg/L			03/02/24 01:41	1
Chloride	<0.20		1.0	0.20	mg/L			03/02/24 01:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:47	02/20/24 16:58	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:47	02/20/24 16:58	1
Barium	<0.00089		0.010	0.00089	mg/L		02/20/24 05:47	02/20/24 16:58	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:47	02/20/24 16:58	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:47	02/20/24 16:58	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:47	02/20/24 16:58	1
Calcium	<0.14		0.50	0.14	mg/L		02/20/24 05:47	02/20/24 16:58	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:47	02/20/24 16:58	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:47	02/20/24 16:58	1
Iron	<0.012		0.050	0.012	mg/L		02/20/24 05:47	02/20/24 16:58	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:47	02/20/24 16:58	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/24 05:47	02/20/24 16:58	1
Magnesium	<0.023		0.50	0.023	mg/L		02/20/24 05:47	02/20/24 16:58	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/20/24 05:47	02/20/24 16:58	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:47	02/20/24 16:58	1
Potassium	**0.050**	**J**	0.50	0.044	mg/L		02/20/24 05:47	02/20/24 16:58	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:47	02/20/24 16:58	1
Sodium	<0.20		0.50	0.20	mg/L		02/20/24 05:47	02/20/24 16:58	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:47	02/20/24 16:58	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 16:37	1

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

Job ID: 680-246872-1

Client Sample ID: WAN-AP1-EB-03

Lab Sample ID: 680-246872-19

Date Collected: 02/15/24 16:50

Matrix: Water

Date Received: 02/17/24 09:52

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 02:04	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 02:04	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 02:04	1
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			02/22/24 15:14	1
Sulfide (SM 4500 S2 F-2011)	**1.2**		0.81	0.81	mg/L			02/22/24 12:59	1

Client Sample ID: WAN-WGWA-5

Lab Sample ID: 680-246872-20

Date Collected: 02/16/24 11:15

Matrix: Water

Date Received: 02/17/24 09:52

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**1.5**		1.0	0.50	mg/L			03/02/24 01:58	1
Fluoride	<0.20		0.40	0.20	mg/L			03/02/24 01:58	1
Chloride	**1.6**		1.0	0.20	mg/L			03/02/24 01:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:47	02/20/24 17:01	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:47	02/20/24 17:01	1
Barium	**0.014**	**B**	0.010	0.00089	mg/L		02/20/24 05:47	02/20/24 17:01	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:47	02/20/24 17:01	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:47	02/20/24 17:01	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:47	02/20/24 17:01	1
Calcium	**0.92**		0.50	0.14	mg/L		02/20/24 05:47	02/20/24 17:01	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:47	02/20/24 17:01	1
Cobalt	**0.00059**	**J**	0.0025	0.00022	mg/L		02/20/24 05:47	02/20/24 17:01	1
Iron	**0.10**		0.050	0.012	mg/L		02/20/24 05:47	02/20/24 17:01	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:47	02/20/24 17:01	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/24 05:47	02/20/24 17:01	1
Magnesium	**0.60**		0.50	0.023	mg/L		02/20/24 05:47	02/20/24 17:01	1
Manganese	**0.0051**		0.0050	0.0022	mg/L		02/20/24 05:47	02/20/24 17:01	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:47	02/20/24 17:01	1
Potassium	**1.1**		0.50	0.044	mg/L		02/20/24 05:47	02/20/24 17:01	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:47	02/20/24 17:01	1
Sodium	**1.2**		0.50	0.20	mg/L		02/20/24 05:47	02/20/24 17:01	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:47	02/20/24 17:01	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 16:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**6.2**		5.0	5.0	mg/L			02/23/24 01:41	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**6.2**		5.0	5.0	mg/L			02/23/24 01:41	1

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

Job ID: 680-246872-1

Client Sample ID: WAN-WGWA-5
Date Collected: 02/16/24 11:15
Date Received: 02/17/24 09:52

Lab Sample ID: 680-246872-20
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			02/23/24 01:41	1
Total Dissolved Solids (SM 2540C-2011)	**34**		10	10	mg/L			02/22/24 15:14	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/22/24 12:59	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 670-78646/40
Matrix: Water
Analysis Batch: 78646

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.50		1.0	0.50	mg/L			03/01/24 20:03	1
Fluoride	<0.20		0.40	0.20	mg/L			03/01/24 20:03	1
Chloride	<0.20		1.0	0.20	mg/L			03/01/24 20:03	1

Lab Sample ID: MB 670-78646/6
Matrix: Water
Analysis Batch: 78646

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.50		1.0	0.50	mg/L			03/01/24 11:02	1
Fluoride	<0.20		0.40	0.20	mg/L			03/01/24 11:02	1
Chloride	<0.20		1.0	0.20	mg/L			03/01/24 11:02	1

Lab Sample ID: LCS 670-78646/38
Matrix: Water
Analysis Batch: 78646

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	4.00	3.96		mg/L		99	90 - 110
Fluoride	4.00	4.13		mg/L		103	90 - 110
Chloride	4.00	3.91		mg/L		98	90 - 110

Lab Sample ID: LCS 670-78646/4
Matrix: Water
Analysis Batch: 78646

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	4.00	3.88		mg/L		97	90 - 110
Fluoride	4.00	4.08		mg/L		102	90 - 110
Chloride	4.00	3.89		mg/L		97	90 - 110

Lab Sample ID: LCSD 670-78646/39
Matrix: Water
Analysis Batch: 78646

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
Sulfate	4.00	3.96		mg/L		99	90 - 110	0	20
Fluoride	4.00	4.13		mg/L		103	90 - 110	0	20
Chloride	4.00	3.91		mg/L		98	90 - 110	0	20

Lab Sample ID: LCSD 670-78646/5
Matrix: Water
Analysis Batch: 78646

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
Sulfate	4.00	3.88		mg/L		97	90 - 110	0	20
Fluoride	4.00	4.08		mg/L		102	90 - 110	0	20
Chloride	4.00	3.89		mg/L		97	90 - 110	0	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-246872-7 MS
Matrix: Water
Analysis Batch: 78646

Client Sample ID: WAN-WGWC-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	5.4		5.00	9.97		mg/L		91	80 - 120
Fluoride	<0.20		5.00	5.82		mg/L		116	80 - 120
Chloride	1.6		5.00	7.10		mg/L		109	80 - 120

Lab Sample ID: 680-246872-7 MSD
Matrix: Water
Analysis Batch: 78646

Client Sample ID: WAN-WGWC-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	5.4		5.00	9.96		mg/L		91	80 - 120	0	20
Fluoride	<0.20		5.00	5.82		mg/L		116	80 - 120	0	20
Chloride	1.6		5.00	7.17		mg/L		111	80 - 120	1	20

Lab Sample ID: 680-246872-16 MS
Matrix: Water
Analysis Batch: 78646

Client Sample ID: WAN-AP1-FB-08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	<0.50		5.00	5.51		mg/L		110	80 - 120
Fluoride	<0.20		5.00	5.57		mg/L		111	80 - 120
Chloride	<0.20		5.00	5.40		mg/L		108	80 - 120

Lab Sample ID: 680-246872-16 MSD
Matrix: Water
Analysis Batch: 78646

Client Sample ID: WAN-AP1-FB-08
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	<0.50		5.00	5.50		mg/L		110	80 - 120	0	20
Fluoride	<0.20		5.00	5.57		mg/L		111	80 - 120	0	20
Chloride	<0.20		5.00	5.40		mg/L		108	80 - 120	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-823461/1-A
Matrix: Water
Analysis Batch: 823730

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 823461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:41	02/20/24 17:24	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:41	02/20/24 17:24	1
Barium	<0.00089		0.010	0.00089	mg/L		02/20/24 05:41	02/20/24 17:24	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:41	02/20/24 17:24	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:41	02/20/24 17:24	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:41	02/20/24 17:24	1
Calcium	<0.14		0.50	0.14	mg/L		02/20/24 05:41	02/20/24 17:24	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:41	02/20/24 17:24	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:41	02/20/24 17:24	1
Iron	<0.012		0.050	0.012	mg/L		02/20/24 05:41	02/20/24 17:24	1
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:41	02/20/24 17:24	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/24 05:41	02/20/24 17:24	1

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

Lab Sample ID: MB 680-823461/1-A
Matrix: Water
Analysis Batch: 823730

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 823461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	<0.023		0.50	0.023	mg/L		02/20/24 05:41	02/20/24 17:24	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/20/24 05:41	02/20/24 17:24	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:41	02/20/24 17:24	1
Potassium	<0.044		0.50	0.044	mg/L		02/20/24 05:41	02/20/24 17:24	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:41	02/20/24 17:24	1
Sodium	<0.20		0.50	0.20	mg/L		02/20/24 05:41	02/20/24 17:24	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:41	02/20/24 17:24	1

Lab Sample ID: LCS 680-823461/2-A
Matrix: Water
Analysis Batch: 823730

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 823461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0535		mg/L		107	80 - 120
Arsenic	0.100	0.101		mg/L		101	80 - 120
Barium	0.100	0.0982		mg/L		98	80 - 120
Beryllium	0.0500	0.0486		mg/L		97	80 - 120
Boron	0.400	0.377		mg/L		94	80 - 120
Cadmium	0.0500	0.0502		mg/L		100	80 - 120
Calcium	5.00	5.01		mg/L		100	80 - 120
Chromium	0.100	0.103		mg/L		102	80 - 120
Cobalt	0.0500	0.0531		mg/L		106	80 - 120
Iron	4.99	4.97		mg/L		100	80 - 120
Lead	0.500	0.474		mg/L		95	80 - 120
Lithium	0.500	0.462		mg/L		92	80 - 120
Magnesium	5.00	4.87		mg/L		97	80 - 120
Manganese	0.400	0.384		mg/L		96	80 - 120
Molybdenum	0.100	0.100		mg/L		100	80 - 120
Potassium	7.00	6.99		mg/L		100	80 - 120
Selenium	0.100	0.0971		mg/L		97	80 - 120
Sodium	5.03	4.85		mg/L		96	80 - 120
Thallium	0.0500	0.0506		mg/L		101	80 - 120

Lab Sample ID: 400-251226-E-7-B MS
Matrix: Water
Analysis Batch: 823730

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 823461

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00034		0.0500	0.0543		mg/L		109	75 - 125
Arsenic	0.065		0.100	0.164		mg/L		99	75 - 125
Barium	0.0057	J	0.100	0.106		mg/L		100	75 - 125
Beryllium	<0.00020		0.0500	0.0494		mg/L		99	75 - 125
Boron	0.034	J	0.400	0.410		mg/L		94	75 - 125
Cadmium	<0.000078		0.0500	0.0509		mg/L		102	75 - 125
Calcium	22		5.00	27.7	4	mg/L		105	75 - 125
Chromium	0.0016	J	0.100	0.101		mg/L		99	75 - 125
Cobalt	0.0049		0.0500	0.0564		mg/L		103	75 - 125
Iron	51		4.99	54.9	4	mg/L		86	75 - 125
Lead	<0.00021		0.500	0.476		mg/L		95	75 - 125

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

Lab Sample ID: 400-251226-E-7-B MS
Matrix: Water
Analysis Batch: 823730

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 823461

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	<0.0020		0.500	0.491		mg/L		98	75 - 125
Magnesium	6.3		5.00	11.1		mg/L		97	75 - 125
Manganese	0.48		0.400	0.835		mg/L		89	75 - 125
Molybdenum	0.0014	J	0.100	0.0965		mg/L		95	75 - 125
Potassium	2.2		7.00	9.22		mg/L		100	75 - 125
Selenium	<0.00099		0.100	0.0933		mg/L		93	75 - 125
Sodium	7.3		5.03	12.1		mg/L		95	75 - 125
Thallium	<0.00026		0.0500	0.0515		mg/L		103	75 - 125

Lab Sample ID: 400-251226-E-7-C MSD
Matrix: Water
Analysis Batch: 823730

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 823461

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00034		0.0500	0.0558		mg/L		112	75 - 125	3	20
Arsenic	0.065		0.100	0.169		mg/L		104	75 - 125	3	20
Barium	0.0057	J	0.100	0.110		mg/L		104	75 - 125	4	20
Beryllium	<0.00020		0.0500	0.0511		mg/L		102	75 - 125	3	20
Boron	0.034	J	0.400	0.437		mg/L		101	75 - 125	6	20
Cadmium	<0.000078		0.0500	0.0512		mg/L		102	75 - 125	1	20
Calcium	22		5.00	28.5	4	mg/L		120	75 - 125	3	20
Chromium	0.0016	J	0.100	0.103		mg/L		101	75 - 125	1	20
Cobalt	0.0049		0.0500	0.0583		mg/L		107	75 - 125	3	20
Iron	51		4.99	57.2	4	mg/L		131	75 - 125	4	20
Lead	<0.00021		0.500	0.492		mg/L		98	75 - 125	3	20
Lithium	<0.0020		0.500	0.503		mg/L		101	75 - 125	2	20
Magnesium	6.3		5.00	11.4		mg/L		102	75 - 125	2	20
Manganese	0.48		0.400	0.869		mg/L		97	75 - 125	4	20
Molybdenum	0.0014	J	0.100	0.102		mg/L		100	75 - 125	5	20
Potassium	2.2		7.00	9.49		mg/L		104	75 - 125	3	20
Selenium	<0.00099		0.100	0.0981		mg/L		98	75 - 125	5	20
Sodium	7.3		5.03	12.3		mg/L		100	75 - 125	2	20
Thallium	<0.00026		0.0500	0.0521		mg/L		104	75 - 125	1	20

Lab Sample ID: MB 680-823462/1-A
Matrix: Water
Analysis Batch: 823730

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 823462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:47	02/20/24 16:01	1
Arsenic	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:47	02/20/24 16:01	1
Barium	0.000920	J	0.010	0.00089	mg/L		02/20/24 05:47	02/20/24 16:01	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:47	02/20/24 16:01	1
Boron	<0.022		0.080	0.022	mg/L		02/20/24 05:47	02/20/24 16:01	1
Cadmium	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:47	02/20/24 16:01	1
Calcium	<0.14		0.50	0.14	mg/L		02/20/24 05:47	02/20/24 16:01	1
Chromium	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:47	02/20/24 16:01	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:47	02/20/24 16:01	1
Iron	<0.012		0.050	0.012	mg/L		02/20/24 05:47	02/20/24 16:01	1

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

Lab Sample ID: MB 680-823462/1-A
Matrix: Water
Analysis Batch: 823730

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 823462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:47	02/20/24 16:01	1
Lithium	<0.0020		0.0050	0.0020	mg/L		02/20/24 05:47	02/20/24 16:01	1
Magnesium	<0.023		0.50	0.023	mg/L		02/20/24 05:47	02/20/24 16:01	1
Manganese	<0.0022		0.0050	0.0022	mg/L		02/20/24 05:47	02/20/24 16:01	1
Molybdenum	<0.00086		0.015	0.00086	mg/L		02/20/24 05:47	02/20/24 16:01	1
Potassium	<0.044		0.50	0.044	mg/L		02/20/24 05:47	02/20/24 16:01	1
Selenium	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:47	02/20/24 16:01	1
Sodium	<0.20		0.50	0.20	mg/L		02/20/24 05:47	02/20/24 16:01	1
Thallium	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:47	02/20/24 16:01	1

Lab Sample ID: LCS 680-823462/2-A
Matrix: Water
Analysis Batch: 823730

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 823462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.0500	0.0526		mg/L		105	80 - 120
Arsenic	0.100	0.102		mg/L		102	80 - 120
Barium	0.100	0.0928		mg/L		93	80 - 120
Beryllium	0.0500	0.0540		mg/L		108	80 - 120
Boron	0.400	0.421		mg/L		105	80 - 120
Cadmium	0.0500	0.0479		mg/L		96	80 - 120
Calcium	5.00	5.01		mg/L		100	80 - 120
Chromium	0.100	0.102		mg/L		102	80 - 120
Cobalt	0.0500	0.0529		mg/L		106	80 - 120
Iron	4.99	4.72		mg/L		95	80 - 120
Lead	0.500	0.478		mg/L		96	80 - 120
Lithium	0.500	0.485		mg/L		97	80 - 120
Magnesium	5.00	5.06		mg/L		101	80 - 120
Manganese	0.400	0.363		mg/L		91	80 - 120
Molybdenum	0.100	0.0964		mg/L		96	80 - 120
Potassium	7.00	7.34		mg/L		105	80 - 120
Selenium	0.100	0.0921		mg/L		92	80 - 120
Sodium	5.03	5.11		mg/L		102	80 - 120
Thallium	0.0500	0.0524		mg/L		105	80 - 120

Lab Sample ID: 680-246872-5 MS
Matrix: Water
Analysis Batch: 823730

Client Sample ID: WAN-WGWC-15
Prep Type: Total Recoverable
Prep Batch: 823462

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00034		0.0500	0.0561		mg/L		112	75 - 125
Arsenic	<0.00086		0.100	0.101		mg/L		101	75 - 125
Barium	0.031	B	0.100	0.140		mg/L		109	75 - 125
Beryllium	<0.00020		0.0500	0.0504		mg/L		101	75 - 125
Boron	<0.022		0.400	0.442		mg/L		110	75 - 125
Cadmium	<0.000078		0.0500	0.0523		mg/L		105	75 - 125
Calcium	31		5.00	36.4	4	mg/L		106	75 - 125
Chromium	<0.0012		0.100	0.100		mg/L		100	75 - 125
Cobalt	<0.00022		0.0500	0.0513		mg/L		103	75 - 125

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

Lab Sample ID: 680-246872-5 MS
Matrix: Water
Analysis Batch: 823730

Client Sample ID: WAN-WGWC-15
Prep Type: Total Recoverable
Prep Batch: 823462

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.016	J	4.99	4.79		mg/L		96	75 - 125
Lead	<0.00021		0.500	0.493		mg/L		99	75 - 125
Lithium	0.0055		0.500	0.501		mg/L		99	75 - 125
Magnesium	4.9		5.00	9.79		mg/L		99	75 - 125
Manganese	0.54	F1	0.400	0.390	F1	mg/L		-38	75 - 125
Molybdenum	0.0021	J	0.100	0.100		mg/L		98	75 - 125
Potassium	1.6		7.00	8.85		mg/L		104	75 - 125
Selenium	<0.00099		0.100	0.0964		mg/L		96	75 - 125
Sodium	9.0		5.03	13.6		mg/L		91	75 - 125
Thallium	<0.00026		0.0500	0.0534		mg/L		107	75 - 125

Lab Sample ID: 680-246872-5 MSD
Matrix: Water
Analysis Batch: 823730

Client Sample ID: WAN-WGWC-15
Prep Type: Total Recoverable
Prep Batch: 823462

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00034		0.0500	0.0577		mg/L		115	75 - 125	3	20
Arsenic	<0.00086		0.100	0.102		mg/L		102	75 - 125	1	20
Barium	0.031	B	0.100	0.134		mg/L		103	75 - 125	4	20
Beryllium	<0.00020		0.0500	0.0511		mg/L		102	75 - 125	1	20
Boron	<0.022		0.400	0.422		mg/L		105	75 - 125	5	20
Cadmium	<0.000078		0.0500	0.0539		mg/L		108	75 - 125	3	20
Calcium	31		5.00	34.8	4	mg/L		74	75 - 125	4	20
Chromium	<0.0012		0.100	0.102		mg/L		102	75 - 125	2	20
Cobalt	<0.00022		0.0500	0.0514		mg/L		103	75 - 125	0	20
Iron	0.016	J	4.99	4.77		mg/L		95	75 - 125	0	20
Lead	<0.00021		0.500	0.498		mg/L		100	75 - 125	1	20
Lithium	0.0055		0.500	0.515		mg/L		102	75 - 125	3	20
Magnesium	4.9		5.00	9.63		mg/L		95	75 - 125	2	20
Manganese	0.54	F1	0.400	0.388	F1	mg/L		-39	75 - 125	1	20
Molybdenum	0.0021	J	0.100	0.100		mg/L		98	75 - 125	0	20
Potassium	1.6		7.00	8.75		mg/L		102	75 - 125	1	20
Selenium	<0.00099		0.100	0.0967		mg/L		97	75 - 125	0	20
Sodium	9.0		5.03	13.1		mg/L		82	75 - 125	4	20
Thallium	<0.00026		0.0500	0.0549		mg/L		110	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-823643/1-A
Matrix: Water
Analysis Batch: 823946

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 823643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:18	02/21/24 16:54	1

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

Lab Sample ID: LCS 680-823643/2-A
Matrix: Water
Analysis Batch: 823946

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 823643

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: 680-246862-F-11-D MS
Matrix: Water
Analysis Batch: 823946

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 823643

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	<0.000080		0.00100	0.00102		mg/L		102	80 - 120		

Lab Sample ID: 680-246862-F-11-E MSD
Matrix: Water
Analysis Batch: 823946

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 823643

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000080		0.00100	0.00106		mg/L		106	80 - 120	4	20

Lab Sample ID: MB 680-823651/1-A
Matrix: Water
Analysis Batch: 823946

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 823651

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 15:43	1

Lab Sample ID: LCS 680-823651/2-A
Matrix: Water
Analysis Batch: 823946

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 823651

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00250	0.00279		mg/L		112	80 - 120		

Lab Sample ID: 680-246872-4 MS
Matrix: Water
Analysis Batch: 823946

Client Sample ID: WAN-WGWC-14A
Prep Type: Total/NA
Prep Batch: 823651

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	<0.000080	F2	0.00100	0.00110		mg/L		110	80 - 120		

Lab Sample ID: 680-246872-4 MSD
Matrix: Water
Analysis Batch: 823946

Client Sample ID: WAN-WGWC-14A
Prep Type: Total/NA
Prep Batch: 823651

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000080	F2	0.00100	0.000894	F2	mg/L		89	80 - 120	21	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-823729/4
Matrix: Water
Analysis Batch: 823729

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	<5.0		5.0	5.0	mg/L			02/20/24 22:44	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/20/24 22:44	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/20/24 22:44	1

Lab Sample ID: LCS 680-823729/6
Matrix: Water
Analysis Batch: 823729

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	250	247		mg/L		99	90 - 112

Lab Sample ID: LCSD 680-823729/31
Matrix: Water
Analysis Batch: 823729

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3	250	250		mg/L		100	90 - 112	1	30

Lab Sample ID: 752-16772-B-1 DU
Matrix: Water
Analysis Batch: 823729

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3	53		47.3		mg/L		12	30
Bicarbonate Alkalinity as CaCO3	53		47.3		mg/L		12	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

Lab Sample ID: MB 680-824123/4
Matrix: Water
Analysis Batch: 824123

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	<5.0		5.0	5.0	mg/L			02/23/24 00:50	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/23/24 00:50	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/23/24 00:50	1

Lab Sample ID: LCS 680-824123/6
Matrix: Water
Analysis Batch: 824123

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	250	248		mg/L		99	90 - 112

Lab Sample ID: LCSD 680-824123/31
Matrix: Water
Analysis Batch: 824123

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3	250	251		mg/L		100	90 - 112	1	30

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: 680-246872-2 DU
Matrix: Water
Analysis Batch: 824123

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3	12		10.4		mg/L		18	30
Bicarbonate Alkalinity as CaCO3	12		10.4		mg/L		18	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

Lab Sample ID: MB 680-824492/4
Matrix: Water
Analysis Batch: 824492

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	<5.0		5.0	5.0	mg/L			02/23/24 09:00	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/23/24 09:00	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			02/23/24 09:00	1

Lab Sample ID: LCS 680-824492/6
Matrix: Water
Analysis Batch: 824492

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	250	248		mg/L		99	90 - 112

Lab Sample ID: LCSD 680-824492/31
Matrix: Water
Analysis Batch: 824492

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3	250	251		mg/L		100	90 - 112	1	30

Lab Sample ID: 680-246872-18 DU
Matrix: Water
Analysis Batch: 824492

Client Sample ID: WAN-AP1-EB-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30
Bicarbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-823618/1
Matrix: Water
Analysis Batch: 823618

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			02/20/24 14:24	1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: LCS 680-823618/2
Matrix: Water
Analysis Batch: 823618

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			2410	2440		mg/L		101	80 - 120		

Lab Sample ID: LCSD 680-823618/3
Matrix: Water
Analysis Batch: 823618

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			2410	2410		mg/L		100	80 - 120	1	25

Lab Sample ID: 680-246862-C-15 DU
Matrix: Water
Analysis Batch: 823618

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	180			184		mg/L				2	5

Lab Sample ID: 680-246862-E-17 DU
Matrix: Water
Analysis Batch: 823618

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	210			178	F5	mg/L				16	5

Lab Sample ID: MB 680-824083/1
Matrix: Water
Analysis Batch: 824083

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			02/22/24 15:14	1

Lab Sample ID: LCS 680-824083/2
Matrix: Water
Analysis Batch: 824083

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			2410	2440		mg/L		101	80 - 120		

Lab Sample ID: LCSD 680-824083/3
Matrix: Water
Analysis Batch: 824083

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			2410	2430		mg/L		101	80 - 120	0	25

Lab Sample ID: 680-246872-9 DU
Matrix: Water
Analysis Batch: 824083

Client Sample ID: WAN-WGWC-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	740			722		mg/L				2	5

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: 680-246872-13 DU — **Client Sample ID: WAN-PZ-26D**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 824083

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	160			168	F5	mg/L				6	5

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-823999/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 823999

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			02/22/24 11:08	1

Lab Sample ID: LCS 680-823999/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 823999

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.63		mg/L		96	75 - 125		

Lab Sample ID: LCSD 680-823999/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 823999

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide			10.0	9.37		mg/L		94	75 - 125	3	30

Lab Sample ID: 680-246811-F-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 823999

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	<0.89	F1	10.0	7.15	F1	mg/L		72	75 - 125		

Lab Sample ID: 680-246811-F-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 823999

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.89	F1	10.0	7.15	F1	mg/L		72	75 - 125	0	30

Lab Sample ID: 680-246808-G-3 DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 823999

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	2.0			2.62		mg/L				26	30

Method: 4500 S2 F-2011 - Sulfide, Total (Continued)

Lab Sample ID: MB 680-824023/1
Matrix: Water
Analysis Batch: 824023

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			02/22/24 12:59	1

Lab Sample ID: LCS 680-824023/2
Matrix: Water
Analysis Batch: 824023

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.59		mg/L		96	75 - 125		

Lab Sample ID: LCSD 680-824023/3
Matrix: Water
Analysis Batch: 824023

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
Sulfide			10.0	9.10		mg/L		91	75 - 125	5	30

Lab Sample ID: 680-246872-15 MS
Matrix: Water
Analysis Batch: 824023

Client Sample ID: WAN-AP1-FD-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	1.8		6.50	7.08		mg/L		81	75 - 125		

Lab Sample ID: 680-246872-15 MSD
Matrix: Water
Analysis Batch: 824023

Client Sample ID: WAN-AP1-FD-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	1.8		6.50	7.08		mg/L		81	75 - 125	0	30

Lab Sample ID: 680-246872-14 DU
Matrix: Water
Analysis Batch: 824023

Client Sample ID: WAN-AP1-FD-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	<0.86			<0.83		mg/L				NC	30

HPLC/IC

Analysis Batch: 78646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246872-1	WAN-WGWC-10	Total/NA	Water	300.0	
680-246872-2	WAN-WGWC-11	Total/NA	Water	300.0	
680-246872-3	WAN-WGWC-13	Total/NA	Water	300.0	
680-246872-4	WAN-WGWC-14A	Total/NA	Water	300.0	
680-246872-5	WAN-WGWC-15	Total/NA	Water	300.0	
680-246872-6	WAN-WGWC-16	Total/NA	Water	300.0	
680-246872-7	WAN-WGWC-17	Total/NA	Water	300.0	
680-246872-8	WAN-WGWC-19	Total/NA	Water	300.0	
680-246872-9	WAN-WGWC-21	Total/NA	Water	300.0	
680-246872-10	WAN-WGWC-23	Total/NA	Water	300.0	
680-246872-11	WAN-WGWC-25	Total/NA	Water	300.0	
680-246872-12	WAN-WGWC-27	Total/NA	Water	300.0	
680-246872-13	WAN-PZ-26D	Total/NA	Water	300.0	
680-246872-14	WAN-AP1-FD-02	Total/NA	Water	300.0	
680-246872-15	WAN-AP1-FD-03	Total/NA	Water	300.0	
680-246872-16	WAN-AP1-FB-08	Total/NA	Water	300.0	
680-246872-17	WAN-AP1-FB-09	Total/NA	Water	300.0	
680-246872-18	WAN-AP1-EB-02	Total/NA	Water	300.0	
680-246872-19	WAN-AP1-EB-03	Total/NA	Water	300.0	
680-246872-20	WAN-WGWA-5	Total/NA	Water	300.0	
MB 670-78646/40	Method Blank	Total/NA	Water	300.0	
MB 670-78646/6	Method Blank	Total/NA	Water	300.0	
LCS 670-78646/38	Lab Control Sample	Total/NA	Water	300.0	
LCS 670-78646/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 670-78646/39	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 670-78646/5	Lab Control Sample Dup	Total/NA	Water	300.0	
680-246872-7 MS	WAN-WGWC-17	Total/NA	Water	300.0	
680-246872-7 MSD	WAN-WGWC-17	Total/NA	Water	300.0	
680-246872-16 MS	WAN-AP1-FB-08	Total/NA	Water	300.0	
680-246872-16 MSD	WAN-AP1-FB-08	Total/NA	Water	300.0	

Metals

Prep Batch: 823461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246872-1	WAN-WGWC-10	Total Recoverable	Water	3005A	
680-246872-2	WAN-WGWC-11	Total Recoverable	Water	3005A	
680-246872-3	WAN-WGWC-13	Total Recoverable	Water	3005A	
680-246872-4	WAN-WGWC-14A	Total Recoverable	Water	3005A	
MB 680-823461/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-823461/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-251226-E-7-B MS	Matrix Spike	Total Recoverable	Water	3005A	
400-251226-E-7-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 823462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246872-5	WAN-WGWC-15	Total Recoverable	Water	3005A	
680-246872-6	WAN-WGWC-16	Total Recoverable	Water	3005A	
680-246872-7	WAN-WGWC-17	Total Recoverable	Water	3005A	
680-246872-8	WAN-WGWC-19	Total Recoverable	Water	3005A	
680-246872-9	WAN-WGWC-21	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 823462 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246872-10	WAN-WGWC-23	Total Recoverable	Water	3005A	
680-246872-11	WAN-WGWC-25	Total Recoverable	Water	3005A	
680-246872-12	WAN-WGWC-27	Total Recoverable	Water	3005A	
680-246872-13	WAN-PZ-26D	Total Recoverable	Water	3005A	
680-246872-14	WAN-AP1-FD-02	Total Recoverable	Water	3005A	
680-246872-15	WAN-AP1-FD-03	Total Recoverable	Water	3005A	
680-246872-16	WAN-AP1-FB-08	Total Recoverable	Water	3005A	
680-246872-17	WAN-AP1-FB-09	Total Recoverable	Water	3005A	
680-246872-18	WAN-AP1-EB-02	Total Recoverable	Water	3005A	
680-246872-19	WAN-AP1-EB-03	Total Recoverable	Water	3005A	
680-246872-20	WAN-WGWA-5	Total Recoverable	Water	3005A	
MB 680-823462/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-823462/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-246872-5 MS	WAN-WGWC-15	Total Recoverable	Water	3005A	
680-246872-5 MSD	WAN-WGWC-15	Total Recoverable	Water	3005A	

Prep Batch: 823643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246872-1	WAN-WGWC-10	Total/NA	Water	7470A	
680-246872-2	WAN-WGWC-11	Total/NA	Water	7470A	
680-246872-3	WAN-WGWC-13	Total/NA	Water	7470A	
MB 680-823643/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-823643/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-246862-F-11-D MS	Matrix Spike	Total/NA	Water	7470A	
680-246862-F-11-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 823651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246872-4	WAN-WGWC-14A	Total/NA	Water	7470A	
680-246872-5	WAN-WGWC-15	Total/NA	Water	7470A	
680-246872-6	WAN-WGWC-16	Total/NA	Water	7470A	
680-246872-7	WAN-WGWC-17	Total/NA	Water	7470A	
680-246872-8	WAN-WGWC-19	Total/NA	Water	7470A	
680-246872-9	WAN-WGWC-21	Total/NA	Water	7470A	
680-246872-10	WAN-WGWC-23	Total/NA	Water	7470A	
680-246872-11	WAN-WGWC-25	Total/NA	Water	7470A	
680-246872-12	WAN-WGWC-27	Total/NA	Water	7470A	
680-246872-13	WAN-PZ-26D	Total/NA	Water	7470A	
680-246872-14	WAN-AP1-FD-02	Total/NA	Water	7470A	
680-246872-15	WAN-AP1-FD-03	Total/NA	Water	7470A	
680-246872-16	WAN-AP1-FB-08	Total/NA	Water	7470A	
680-246872-17	WAN-AP1-FB-09	Total/NA	Water	7470A	
680-246872-18	WAN-AP1-EB-02	Total/NA	Water	7470A	
680-246872-19	WAN-AP1-EB-03	Total/NA	Water	7470A	
680-246872-20	WAN-WGWA-5	Total/NA	Water	7470A	
MB 680-823651/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-823651/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-246872-4 MS	WAN-WGWC-14A	Total/NA	Water	7470A	
680-246872-4 MSD	WAN-WGWC-14A	Total/NA	Water	7470A	

Metals

Analysis Batch: 823730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246872-1	WAN-WGWC-10	Total Recoverable	Water	6020B	823461
680-246872-2	WAN-WGWC-11	Total Recoverable	Water	6020B	823461
680-246872-3	WAN-WGWC-13	Total Recoverable	Water	6020B	823461
680-246872-4	WAN-WGWC-14A	Total Recoverable	Water	6020B	823461
680-246872-5	WAN-WGWC-15	Total Recoverable	Water	6020B	823462
680-246872-6	WAN-WGWC-16	Total Recoverable	Water	6020B	823462
680-246872-7	WAN-WGWC-17	Total Recoverable	Water	6020B	823462
680-246872-8	WAN-WGWC-19	Total Recoverable	Water	6020B	823462
680-246872-9	WAN-WGWC-21	Total Recoverable	Water	6020B	823462
680-246872-10	WAN-WGWC-23	Total Recoverable	Water	6020B	823462
680-246872-11	WAN-WGWC-25	Total Recoverable	Water	6020B	823462
680-246872-12	WAN-WGWC-27	Total Recoverable	Water	6020B	823462
680-246872-13	WAN-PZ-26D	Total Recoverable	Water	6020B	823462
680-246872-14	WAN-AP1-FD-02	Total Recoverable	Water	6020B	823462
680-246872-15	WAN-AP1-FD-03	Total Recoverable	Water	6020B	823462
680-246872-16	WAN-AP1-FB-08	Total Recoverable	Water	6020B	823462
680-246872-17	WAN-AP1-FB-09	Total Recoverable	Water	6020B	823462
680-246872-18	WAN-AP1-EB-02	Total Recoverable	Water	6020B	823462
680-246872-19	WAN-AP1-EB-03	Total Recoverable	Water	6020B	823462
680-246872-20	WAN-WGWA-5	Total Recoverable	Water	6020B	823462
MB 680-823461/1-A	Method Blank	Total Recoverable	Water	6020B	823461
MB 680-823462/1-A	Method Blank	Total Recoverable	Water	6020B	823462
LCS 680-823461/2-A	Lab Control Sample	Total Recoverable	Water	6020B	823461
LCS 680-823462/2-A	Lab Control Sample	Total Recoverable	Water	6020B	823462
400-251226-E-7-B MS	Matrix Spike	Total Recoverable	Water	6020B	823461
400-251226-E-7-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	823461
680-246872-5 MS	WAN-WGWC-15	Total Recoverable	Water	6020B	823462
680-246872-5 MSD	WAN-WGWC-15	Total Recoverable	Water	6020B	823462

Analysis Batch: 823946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246872-1	WAN-WGWC-10	Total/NA	Water	7470A	823643
680-246872-2	WAN-WGWC-11	Total/NA	Water	7470A	823643
680-246872-3	WAN-WGWC-13	Total/NA	Water	7470A	823643
680-246872-4	WAN-WGWC-14A	Total/NA	Water	7470A	823651
680-246872-5	WAN-WGWC-15	Total/NA	Water	7470A	823651
680-246872-6	WAN-WGWC-16	Total/NA	Water	7470A	823651
680-246872-7	WAN-WGWC-17	Total/NA	Water	7470A	823651
680-246872-8	WAN-WGWC-19	Total/NA	Water	7470A	823651
680-246872-9	WAN-WGWC-21	Total/NA	Water	7470A	823651
680-246872-10	WAN-WGWC-23	Total/NA	Water	7470A	823651
680-246872-11	WAN-WGWC-25	Total/NA	Water	7470A	823651
680-246872-12	WAN-WGWC-27	Total/NA	Water	7470A	823651
680-246872-13	WAN-PZ-26D	Total/NA	Water	7470A	823651
680-246872-14	WAN-AP1-FD-02	Total/NA	Water	7470A	823651
680-246872-15	WAN-AP1-FD-03	Total/NA	Water	7470A	823651
680-246872-16	WAN-AP1-FB-08	Total/NA	Water	7470A	823651
680-246872-17	WAN-AP1-FB-09	Total/NA	Water	7470A	823651
680-246872-18	WAN-AP1-EB-02	Total/NA	Water	7470A	823651
680-246872-19	WAN-AP1-EB-03	Total/NA	Water	7470A	823651
680-246872-20	WAN-WGWA-5	Total/NA	Water	7470A	823651

Metals (Continued)

Analysis Batch: 823946 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-823643/1-A	Method Blank	Total/NA	Water	7470A	823643
MB 680-823651/1-A	Method Blank	Total/NA	Water	7470A	823651
LCS 680-823643/2-A	Lab Control Sample	Total/NA	Water	7470A	823643
LCS 680-823651/2-A	Lab Control Sample	Total/NA	Water	7470A	823651
680-246862-F-11-D MS	Matrix Spike	Total/NA	Water	7470A	823643
680-246862-F-11-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	823643
680-246872-4 MS	WAN-WGWC-14A	Total/NA	Water	7470A	823651
680-246872-4 MSD	WAN-WGWC-14A	Total/NA	Water	7470A	823651

General Chemistry

Analysis Batch: 823618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246872-1	WAN-WGWC-10	Total/NA	Water	2540C-2011	
680-246872-3	WAN-WGWC-13	Total/NA	Water	2540C-2011	
680-246872-4	WAN-WGWC-14A	Total/NA	Water	2540C-2011	
680-246872-5	WAN-WGWC-15	Total/NA	Water	2540C-2011	
MB 680-823618/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-823618/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-823618/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-246862-C-15 DU	Duplicate	Total/NA	Water	2540C-2011	
680-246862-E-17 DU	Duplicate	Total/NA	Water	2540C-2011	

Analysis Batch: 823729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246872-1	WAN-WGWC-10	Total/NA	Water	2320B-2011	
680-246872-3	WAN-WGWC-13	Total/NA	Water	2320B-2011	
680-246872-4	WAN-WGWC-14A	Total/NA	Water	2320B-2011	
680-246872-5	WAN-WGWC-15	Total/NA	Water	2320B-2011	
MB 680-823729/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-823729/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-823729/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
752-16772-B-1 DU	Duplicate	Total/NA	Water	2320B-2011	

Analysis Batch: 823999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246872-1	WAN-WGWC-10	Total/NA	Water	4500 S2 F-2011	
680-246872-2	WAN-WGWC-11	Total/NA	Water	4500 S2 F-2011	
680-246872-3	WAN-WGWC-13	Total/NA	Water	4500 S2 F-2011	
680-246872-4	WAN-WGWC-14A	Total/NA	Water	4500 S2 F-2011	
680-246872-5	WAN-WGWC-15	Total/NA	Water	4500 S2 F-2011	
680-246872-6	WAN-WGWC-16	Total/NA	Water	4500 S2 F-2011	
680-246872-7	WAN-WGWC-17	Total/NA	Water	4500 S2 F-2011	
680-246872-8	WAN-WGWC-19	Total/NA	Water	4500 S2 F-2011	
680-246872-9	WAN-WGWC-21	Total/NA	Water	4500 S2 F-2011	
680-246872-10	WAN-WGWC-23	Total/NA	Water	4500 S2 F-2011	
680-246872-11	WAN-WGWC-25	Total/NA	Water	4500 S2 F-2011	
680-246872-12	WAN-WGWC-27	Total/NA	Water	4500 S2 F-2011	
680-246872-13	WAN-PZ-26D	Total/NA	Water	4500 S2 F-2011	
MB 680-823999/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-823999/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	

General Chemistry (Continued)

Analysis Batch: 823999 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 680-823999/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-246811-F-1 MS	Matrix Spike	Total/NA	Water	4500 S2 F-2011	
680-246811-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	4500 S2 F-2011	
680-246808-G-3 DU	Duplicate	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 824023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246872-14	WAN-AP1-FD-02	Total/NA	Water	4500 S2 F-2011	
680-246872-15	WAN-AP1-FD-03	Total/NA	Water	4500 S2 F-2011	
680-246872-16	WAN-AP1-FB-08	Total/NA	Water	4500 S2 F-2011	
680-246872-17	WAN-AP1-FB-09	Total/NA	Water	4500 S2 F-2011	
680-246872-18	WAN-AP1-EB-02	Total/NA	Water	4500 S2 F-2011	
680-246872-19	WAN-AP1-EB-03	Total/NA	Water	4500 S2 F-2011	
680-246872-20	WAN-WGWA-5	Total/NA	Water	4500 S2 F-2011	
MB 680-824023/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-824023/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-824023/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-246872-15 MS	WAN-AP1-FD-03	Total/NA	Water	4500 S2 F-2011	
680-246872-15 MSD	WAN-AP1-FD-03	Total/NA	Water	4500 S2 F-2011	
680-246872-14 DU	WAN-AP1-FD-02	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 824083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246872-2	WAN-WGWC-11	Total/NA	Water	2540C-2011	
680-246872-6	WAN-WGWC-16	Total/NA	Water	2540C-2011	
680-246872-7	WAN-WGWC-17	Total/NA	Water	2540C-2011	
680-246872-8	WAN-WGWC-19	Total/NA	Water	2540C-2011	
680-246872-9	WAN-WGWC-21	Total/NA	Water	2540C-2011	
680-246872-10	WAN-WGWC-23	Total/NA	Water	2540C-2011	
680-246872-11	WAN-WGWC-25	Total/NA	Water	2540C-2011	
680-246872-12	WAN-WGWC-27	Total/NA	Water	2540C-2011	
680-246872-13	WAN-PZ-26D	Total/NA	Water	2540C-2011	
680-246872-14	WAN-AP1-FD-02	Total/NA	Water	2540C-2011	
680-246872-15	WAN-AP1-FD-03	Total/NA	Water	2540C-2011	
680-246872-16	WAN-AP1-FB-08	Total/NA	Water	2540C-2011	
680-246872-17	WAN-AP1-FB-09	Total/NA	Water	2540C-2011	
680-246872-18	WAN-AP1-EB-02	Total/NA	Water	2540C-2011	
680-246872-19	WAN-AP1-EB-03	Total/NA	Water	2540C-2011	
680-246872-20	WAN-WGWA-5	Total/NA	Water	2540C-2011	
MB 680-824083/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-824083/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-824083/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-246872-9 DU	WAN-WGWC-21	Total/NA	Water	2540C-2011	
680-246872-13 DU	WAN-PZ-26D	Total/NA	Water	2540C-2011	

Analysis Batch: 824123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246872-2	WAN-WGWC-11	Total/NA	Water	2320B-2011	
680-246872-6	WAN-WGWC-16	Total/NA	Water	2320B-2011	
680-246872-7	WAN-WGWC-17	Total/NA	Water	2320B-2011	
680-246872-8	WAN-WGWC-19	Total/NA	Water	2320B-2011	

General Chemistry (Continued)

Analysis Batch: 824123 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246872-9	WAN-WGWC-21	Total/NA	Water	2320B-2011	
680-246872-10	WAN-WGWC-23	Total/NA	Water	2320B-2011	
680-246872-11	WAN-WGWC-25	Total/NA	Water	2320B-2011	
680-246872-12	WAN-WGWC-27	Total/NA	Water	2320B-2011	
680-246872-13	WAN-PZ-26D	Total/NA	Water	2320B-2011	
680-246872-14	WAN-AP1-FD-02	Total/NA	Water	2320B-2011	
680-246872-15	WAN-AP1-FD-03	Total/NA	Water	2320B-2011	
680-246872-16	WAN-AP1-FB-08	Total/NA	Water	2320B-2011	
680-246872-17	WAN-AP1-FB-09	Total/NA	Water	2320B-2011	
680-246872-19	WAN-AP1-EB-03	Total/NA	Water	2320B-2011	
680-246872-20	WAN-WGWA-5	Total/NA	Water	2320B-2011	
MB 680-824123/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-824123/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-824123/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-246872-2 DU	WAN-WGWC-11	Total/NA	Water	2320B-2011	

Analysis Batch: 824492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246872-18	WAN-AP1-EB-02	Total/NA	Water	2320B-2011	
MB 680-824492/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-824492/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-824492/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-246872-18 DU	WAN-AP1-EB-02	Total/NA	Water	2320B-2011	

Lab Chronicle

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

Job ID: 680-246872-1

Client Sample ID: WAN-WGWC-10

Lab Sample ID: 680-246872-1

Date Collected: 02/15/24 12:20

Matrix: Water

Date Received: 02/17/24 09:52

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			78646	03/01/24 17:31	YGS	EET ORL
	Instrument ID: IC_004									
Total Recoverable	Prep	3005A			25 mL	125 mL	823461	02/20/24 05:41	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 18:04	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823643	02/20/24 15:18	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 17:53	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			823729	02/20/24 23:35	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	823618	02/20/24 14:24	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	823999	02/22/24 11:08	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWC-11

Lab Sample ID: 680-246872-2

Date Collected: 02/16/24 09:50

Matrix: Water

Date Received: 02/17/24 09:52

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			78646	03/01/24 17:48	YGS	EET ORL
	Instrument ID: IC_004									
Total Recoverable	Prep	3005A			25 mL	125 mL	823461	02/20/24 05:41	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 18:07	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823643	02/20/24 15:18	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 17:55	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			824123	02/23/24 01:14	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	824083	02/22/24 15:14	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	280 mL	280 mL	823999	02/22/24 11:08	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWC-13

Lab Sample ID: 680-246872-3

Date Collected: 02/15/24 15:55

Matrix: Water

Date Received: 02/17/24 09:52

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			78646	03/01/24 18:05	YGS	EET ORL
	Instrument ID: IC_004									
Total Recoverable	Prep	3005A			25 mL	125 mL	823461	02/20/24 05:41	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 18:09	BWR	EET SAV
	Instrument ID: ICPMSD									

Lab Chronicle

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

Job ID: 680-246872-1

Client Sample ID: WAN-WGWC-13

Lab Sample ID: 680-246872-3

Date Collected: 02/15/24 15:55

Matrix: Water

Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	823643	02/20/24 15:18	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 17:57	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			823729	02/20/24 23:43	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	823618	02/20/24 14:24	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	290 mL	290 mL	823999	02/22/24 11:08	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWC-14A

Lab Sample ID: 680-246872-4

Date Collected: 02/15/24 16:10

Matrix: Water

Date Received: 02/17/24 09:52

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			78646	03/01/24 18:21	YGS	EET ORL
	Instrument ID: IC_004									
Total Recoverable	Prep	3005A			25 mL	125 mL	823461	02/20/24 05:41	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 18:12	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823651	02/20/24 15:32	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 15:48	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			823729	02/21/24 00:22	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	823618	02/20/24 14:24	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	823999	02/22/24 11:08	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWC-15

Lab Sample ID: 680-246872-5

Date Collected: 02/15/24 16:35

Matrix: Water

Date Received: 02/17/24 09:52

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			78646	03/01/24 18:38	YGS	EET ORL
	Instrument ID: IC_004									
Total Recoverable	Prep	3005A			25 mL	125 mL	823462	02/20/24 05:47	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 16:06	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823651	02/20/24 15:32	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 15:55	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			823729	02/21/24 00:14	PG	EET SAV
	Instrument ID: MANTECH 2									

Lab Chronicle

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

Job ID: 680-246872-1

Client Sample ID: WAN-WGWC-15

Lab Sample ID: 680-246872-5

Date Collected: 02/15/24 16:35

Matrix: Water

Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	823618	02/20/24 14:24	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011		1	280 mL	280 mL	823999	02/22/24 11:08	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWC-16

Lab Sample ID: 680-246872-6

Date Collected: 02/15/24 14:30

Matrix: Water

Date Received: 02/17/24 09:52

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			78646	03/01/24 21:11	YGS	EET ORL
	Instrument ID: IC_004									
Total Recoverable	Prep	3005A			25 mL	125 mL	823462	02/20/24 05:47	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 16:15	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823651	02/20/24 15:32	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 16:02	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			824123	02/23/24 03:31	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	824083	02/22/24 15:14	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	823999	02/22/24 11:08	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWC-17

Lab Sample ID: 680-246872-7

Date Collected: 02/15/24 16:20

Matrix: Water

Date Received: 02/17/24 09:52

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			78646	03/01/24 20:20	YGS	EET ORL
	Instrument ID: IC_004									
Total Recoverable	Prep	3005A			25 mL	125 mL	823462	02/20/24 05:47	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 16:18	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823651	02/20/24 15:32	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 16:05	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			824123	02/23/24 01:58	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	824083	02/22/24 15:14	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	823999	02/22/24 11:08	JAS	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

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

Job ID: 680-246872-1

Client Sample ID: WAN-WGWC-19

Lab Sample ID: 680-246872-8

Date Collected: 02/15/24 13:46

Matrix: Water

Date Received: 02/17/24 09:52

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			78646	03/01/24 21:27	YGS	EET ORL
	Instrument ID: IC_004									
Total Recoverable	Prep	3005A			25 mL	125 mL	823462	02/20/24 05:47	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 16:21	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823651	02/20/24 15:32	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 16:07	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			824123	02/23/24 02:12	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	824083	02/22/24 15:14	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	823999	02/22/24 11:08	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWC-21

Lab Sample ID: 680-246872-9

Date Collected: 02/15/24 10:38

Matrix: Water

Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5			78646	03/01/24 21:44	YGS	EET ORL
	Instrument ID: IC_004									
Total Recoverable	Prep	3005A			25 mL	125 mL	823462	02/20/24 05:47	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 16:24	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823651	02/20/24 15:32	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 16:09	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			824123	02/23/24 03:55	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	824083	02/22/24 15:14	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	290 mL	290 mL	823999	02/22/24 11:08	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWC-23

Lab Sample ID: 680-246872-10

Date Collected: 02/15/24 10:50

Matrix: Water

Date Received: 02/17/24 09:52

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			78646	03/01/24 22:01	YGS	EET ORL
	Instrument ID: IC_004									
Total Recoverable	Prep	3005A			25 mL	125 mL	823462	02/20/24 05:47	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 16:26	BWR	EET SAV
	Instrument ID: ICPMSD									

Lab Chronicle

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

Job ID: 680-246872-1

Client Sample ID: WAN-WGWC-23

Lab Sample ID: 680-246872-10

Date Collected: 02/15/24 10:50

Matrix: Water

Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	823651	02/20/24 15:32	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 16:12	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			824123	02/23/24 04:04	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	824083	02/22/24 15:14	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	290 mL	290 mL	823999	02/22/24 11:08	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWC-25

Lab Sample ID: 680-246872-11

Date Collected: 02/15/24 13:30

Matrix: Water

Date Received: 02/17/24 09:52

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			78646	03/01/24 22:18	YGS	EET ORL
	Instrument ID: IC_004									
Total Recoverable	Prep	3005A			25 mL	125 mL	823462	02/20/24 05:47	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 16:35	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823651	02/20/24 15:32	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 16:14	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			824123	02/23/24 02:21	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	824083	02/22/24 15:14	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	290 mL	290 mL	823999	02/22/24 11:08	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWC-27

Lab Sample ID: 680-246872-12

Date Collected: 02/15/24 13:40

Matrix: Water

Date Received: 02/17/24 09:52

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			78646	03/01/24 22:35	YGS	EET ORL
	Instrument ID: IC_004									
Total Recoverable	Prep	3005A			25 mL	125 mL	823462	02/20/24 05:47	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 16:38	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823651	02/20/24 15:32	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 16:16	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			824123	02/23/24 03:40	PG	EET SAV
	Instrument ID: MANTECH 2									

Lab Chronicle

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

Job ID: 680-246872-1

Client Sample ID: WAN-WGWC-27

Lab Sample ID: 680-246872-12

Date Collected: 02/15/24 13:40

Matrix: Water

Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	824083	02/22/24 15:14	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011		1	290 mL	290 mL	823999	02/22/24 11:08	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-PZ-26D

Lab Sample ID: 680-246872-13

Date Collected: 02/15/24 10:50

Matrix: Water

Date Received: 02/17/24 09:52

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			78646	03/01/24 22:52	YGS	EET ORL
	Instrument ID: IC_004									
Total Recoverable	Prep	3005A			25 mL	125 mL	823462	02/20/24 05:47	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 16:41	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823651	02/20/24 15:32	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 16:19	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			824123	02/23/24 01:35	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	824083	02/22/24 15:14	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	823999	02/22/24 11:08	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-AP1-FD-02

Lab Sample ID: 680-246872-14

Date Collected: 02/15/24 00:00

Matrix: Water

Date Received: 02/17/24 09:52

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			78646	03/01/24 23:09	YGS	EET ORL
	Instrument ID: IC_004									
Total Recoverable	Prep	3005A			25 mL	125 mL	823462	02/20/24 05:47	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 16:44	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823651	02/20/24 15:32	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 16:21	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			824123	02/23/24 01:50	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	824083	02/22/24 15:14	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	290 mL	290 mL	824023	02/22/24 12:59	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-AP1-FD-03

Lab Sample ID: 680-246872-15

Date Collected: 02/16/24 00:00

Matrix: Water

Date Received: 02/17/24 09:52

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			78646	03/01/24 23:26	YGS	EET ORL
	Instrument ID: IC_004									
Total Recoverable	Prep	3005A			25 mL	125 mL	823462	02/20/24 05:47	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 16:47	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823651	02/20/24 15:32	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 16:23	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			824123	02/23/24 03:24	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	824083	02/22/24 15:14	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	824023	02/22/24 12:59	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-AP1-FB-08

Lab Sample ID: 680-246872-16

Date Collected: 02/15/24 13:05

Matrix: Water

Date Received: 02/17/24 09:52

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			78646	03/02/24 00:17	YGS	EET ORL
	Instrument ID: IC_004									
Total Recoverable	Prep	3005A			25 mL	125 mL	823462	02/20/24 05:47	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 16:49	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823651	02/20/24 15:32	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 16:30	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			824123	02/23/24 02:27	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	824083	02/22/24 15:14	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	824023	02/22/24 12:59	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-AP1-FB-09

Lab Sample ID: 680-246872-17

Date Collected: 02/15/24 17:17

Matrix: Water

Date Received: 02/17/24 09:52

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			78646	03/02/24 01:07	YGS	EET ORL
	Instrument ID: IC_004									
Total Recoverable	Prep	3005A			25 mL	125 mL	823462	02/20/24 05:47	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 16:52	BWR	EET SAV
	Instrument ID: ICPMSD									

Lab Chronicle

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

Job ID: 680-246872-1

Client Sample ID: WAN-AP1-FB-09

Lab Sample ID: 680-246872-17

Date Collected: 02/15/24 17:17

Matrix: Water

Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			50 mL	50 mL	823651	02/20/24 15:32	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 16:33	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			824123	02/23/24 01:27	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	824083	02/22/24 15:14	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	824023	02/22/24 12:59	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-AP1-EB-02

Lab Sample ID: 680-246872-18

Date Collected: 02/15/24 11:35

Matrix: Water

Date Received: 02/17/24 09:52

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			78646	03/02/24 01:24	YGS	EET ORL
	Instrument ID: IC_004									
Total Recoverable	Prep	3005A			25 mL	125 mL	823462	02/20/24 05:47	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 16:55	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823651	02/20/24 15:32	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 16:35	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			824492	02/23/24 09:23	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	824083	02/22/24 15:14	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	824023	02/22/24 12:59	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-AP1-EB-03

Lab Sample ID: 680-246872-19

Date Collected: 02/15/24 16:50

Matrix: Water

Date Received: 02/17/24 09:52

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			78646	03/02/24 01:41	YGS	EET ORL
	Instrument ID: IC_004									
Total Recoverable	Prep	3005A			25 mL	125 mL	823462	02/20/24 05:47	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 16:58	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823651	02/20/24 15:32	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 16:37	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			824123	02/23/24 02:04	PG	EET SAV
	Instrument ID: MANTECH 2									

Lab Chronicle

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

Job ID: 680-246872-1

Client Sample ID: WAN-AP1-EB-03

Lab Sample ID: 680-246872-19

Date Collected: 02/15/24 16:50

Matrix: Water

Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	824083	02/22/24 15:14	PG	EET SAV
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	824023	02/22/24 12:59	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: WAN-WGWA-5

Lab Sample ID: 680-246872-20

Date Collected: 02/16/24 11:15

Matrix: Water

Date Received: 02/17/24 09:52

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			78646	03/02/24 01:58	YGS	EET ORL
	Instrument ID: IC_004									
Total Recoverable	Prep	3005A			25 mL	125 mL	823462	02/20/24 05:47	RR	EET SAV
Total Recoverable	Analysis	6020B		1			823730	02/20/24 17:01	BWR	EET SAV
	Instrument ID: ICPMSD									
Total/NA	Prep	7470A			50 mL	50 mL	823651	02/20/24 15:32	DW	EET SAV
Total/NA	Analysis	7470A		1			823946	02/21/24 16:40	BJB	EET SAV
	Instrument ID: QuickTrace3									
Total/NA	Analysis	2320B-2011		1			824123	02/23/24 01:41	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	824083	02/22/24 15:14	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	824023	02/22/24 12:59	JAS	EET SAV
	Instrument ID: NoEquip									

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

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

Accreditation/Certification Summary

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

Job ID: 680-246872-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24

Laboratory: Eurofins Orlando

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	42800	06-30-24
Arkansas (DW)	State	FL00091	06-30-24
Florida	NELAP	E83018	06-30-24
Georgia (DW)	State	C055	06-30-24
Louisiana (All)	NELAP	239316	06-30-24
Louisiana (DW)	State	LA039	05-24-24
Mississippi	State	MS00007	06-30-24
New Mexico	State	FL00091	06-30-24
North Carolina (DW)	State	12712	07-31-24
Tennessee	State	TN04930	06-30-24
Texas	NELAP	T104704571	02-28-25
Washington	State	C1089	10-19-24

Method Summary

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

Job ID: 680-246872-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET ORL
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
2320B-2011	Alkalinity, Total	SM	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
4500 S2 F-2011	Sulfide, Total	SM	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

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

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: S Schnitker / ACC D. Johnson	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770 594 5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 1 of 2
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Atlanta	TAT Requested (days): Standard			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				Other:
Phone: 404-506-7116(Tel)	Lab Project #: 68027766			
Email: SCS Contacts / Geosyntec Contacts	PO #: GPC82130-0004			
Project Name: Plant Wansley Ash Pond	Project #:			
Site:	SSOW#:			

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=Comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=quality control)	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 6020/7470): Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Tl	Radium 226 & 228 (SW-846 9315/9320)	Major Ions - Carbonate, Bicarbonate, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of containers
			Preservation Code:				D	I	D	D	I	B, C	D	
WAN- WGWC-10	02/15/24	1220	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	6
WAN- WGWC-11	02/16/24	0950	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- WGWC-13	02/15/24	1555	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- WGWC-14A	02/15/24	1610	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- WGWC-15	02/15/24	1635	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- WGWC-16	02/15/24	1430	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- WGWC-17	02/15/24	1620	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- WGWC-19	02/15/24	1346	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- WGWC-21	02/15/24	1038	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- WGWC-23	02/15/24	1050	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- WGWC-25	02/15/24	1330	G	WG	N	N	✓	✓	✓	~	✓	✓	✓	8

Task_Code: WAN-CCR-ASSMT-2024S1

Special Instructions/Note: Full APP III and APP IV

680-246872 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	02/16/24 1500	ACC	Michael Mesker	2-16-24 1500	
Michael Mesker	2/16/24 1500				
				2/7/24 0952	

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.7/3.9 0.1/0.1 3.0/3.0 2.3/2.3 2.4/2.4 2.8/2.8 3.4/3.4

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: A Schmitter / ACC D. Johnson	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770 594 5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 2 of 2
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027766			
Email: SCS Contacts / Geosyntec Contacts	PO #: GPC82130-0004			
Project Name: Plant Wansley Ash Pond	Project #:			
Site:	SSOW#:			

Analysis 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:

Task_Code: WAN-CCR-ASSMT-2024S1

Special Instructions/Note: Full APP III and APP IV

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=Comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=equality control)	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 6020/7470): Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Tl	Radium 226 & 228 (SW-846 9315/9320)	Major Ions - Carbonate, Bicarbonate, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of containers
			Preservation Code:				D	I	D	D	I	B, C	D	
WAN- WGWC-27	02/15/24	1340	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- PZ-26D	02/15/24	1050	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- AP1-FD-02	02/15/24	—	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- AP1-FD-03	02/16/24	—	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- AP1-FB-08	02/15/24	1305	G	WQ	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- AP1-FB-09	02/15/24	1717	G	WQ	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- AP1-EB-02	02/15/24	1135	G	WQ	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- AP1-EB-03	02/15/24	1650	G	WQ	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- WGWA-5	02/16/24	1115	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-			G			N								
WAN-			G			N								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		02/16/24 1500	ACC	Michael Meskill	2/16/24 1500	
2	Michael Meskill	2/16/24 1500				
3					2/17/24 0952	

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

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-764938.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida; State - Georgia		Job #: 680-246872-1
Address: 481 Newburyport Avenue, ,	Due Date Requested: 2/29/2024			
City: Altamonte Springs	TAT Requested (days):			
State, Zip: FL, 32701				
Phone: 407-339-5984(Tel) 407-260-6110(Fax)	PO #:			
Email:	WO #:			
Project Name: Plant Wansley Ash Pond	Project #: 68027766			
Site:	SSOW#:			

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, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ (MOD) Cl, Fl, SO4, Br	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
WAN-WGWC-10 (680-246872-1)	2/15/24	12:20 Eastern		Water			X	1	
WAN-WGWC-11 (680-246872-2)	2/16/24	09:50 Eastern		Water			X	1	
WAN-WGWC-13 (680-246872-3)	2/15/24	15:55 Eastern		Water			X	1	
WAN-WGWC-14A (680-246872-4)	2/15/24	16:10 Eastern		Water			X	1	
WAN-WGWC-15 (680-246872-5)	2/15/24	16:35 Eastern		Water			X	1	
WAN-WGWC-16 (680-246872-6)	2/15/24	14:30 Eastern		Water			X	1	
WAN-WGWC-17 (680-246872-7)	2/15/24	16:20 Eastern		Water			X	1	
WAN-WGWC-19 (680-246872-8)	2/15/24	13:46 Eastern		Water			X	1	
WAN-WGWC-21 (680-246872-9)	2/15/24	10:38 Eastern		Water			X	1	

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

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *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:	Date/Time:	Company	Received by:	Date/Time:	Company
	2.29.24 1600			2/1 920	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-764938.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 2 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida; State - Georgia		Job #: 680-246872-1
Address: 481 Newburyport Avenue, ,	Due Date Requested: 2/29/2024			
City: Altamonte Springs	TAT Requested (days):			
State, Zip: FL, 32701				
Phone: 407-339-5984(Tel) 407-260-6110(Fax)	PO #:			
Email:	WO #:			
Project Name: Plant Wansley Ash Pond	Project #: 68027766			
Site:	SSOW#:			

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, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ (MOD) Cl, Fl, SO4, Br	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
WAN-WGWC-23 (680-246872-10)	2/15/24	10:50 Eastern		Water			X	1	
WAN-WGWC-25 (680-246872-11)	2/15/24	13:30 Eastern		Water			X	1	
WAN-WGWC-27 (680-246872-12)	2/15/24	13:40 Eastern		Water			X	1	
WAN-PZ-26D (680-246872-13)	2/15/24	10:50 Eastern		Water			X	1	
WAN-AP1-FD-02 (680-246872-14)	2/15/24	Eastern		Water			X	1	
WAN-AP1-FD-03 (680-246872-15)	2/16/24	Eastern		Water			X	1	
WAN-AP1-FB-08 (680-246872-16)	2/15/24	13:05 Eastern		Water			X	1	
WAN-AP1-FB-09 (680-246872-17)	2/15/24	17:17 Eastern		Water			X	1	
WAN-AP1-EB-02 (680-246872-18)	2/15/24	11:35 Eastern		Water			X	1	

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

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	2.29.24 1600			3/1 920	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.1

Ver: 06/08/2021

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-764938.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 3 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida; State - Georgia		Job #: 680-246872-1
Address: 481 Newburyport Avenue, ,	Due Date Requested: 2/29/2024			
City: Altamonte Springs	TAT Requested (days):			
State, Zip: FL, 32701				
Phone: 407-339-5984(Tel) 407-260-6110(Fax)	PO #:			
Email:	WO #:			
Project Name: Plant Wansley Ash Pond	Project #: 68027766			
Site:	SSOW#:			

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, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ (MOD) Cl, Fl, SO4, Br	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
WAN-AP1-EB-03 (680-246872-19)	2/15/24	16:50 Eastern		Water			X	1	
WAN-WGWA-5 (680-246872-20)	2/16/24	11:15 Eastern		Water			X	1	

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

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 2-29-24 1600	Company	Received by:	Date/Time: 2/1 920	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-246872-1

Login Number: 246872

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-246872-1

Login Number: 246872
List Number: 3
Creator: Beck, Brent

List Source: Eurofins Orlando
List Creation: 03/01/24 09:43 AM

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/28/2024 2:19:37 PM

JOB DESCRIPTION

Plant Wansley Ash Pond

JOB NUMBER

680-246872-2

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

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

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

Authorization



Generated
3/28/2024 2:19:37 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

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

Job ID: 680-246872-2

Qualifiers

Rad

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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

Sample Summary

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

Job ID: 680-246872-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-246872-1	WAN-WGWC-10	Water	02/15/24 12:20	02/17/24 09:52
680-246872-2	WAN-WGWC-11	Water	02/16/24 09:50	02/17/24 09:52
680-246872-3	WAN-WGWC-13	Water	02/15/24 15:55	02/17/24 09:52
680-246872-4	WAN-WGWC-14A	Water	02/15/24 16:10	02/17/24 09:52
680-246872-5	WAN-WGWC-15	Water	02/15/24 16:35	02/17/24 09:52
680-246872-6	WAN-WGWC-16	Water	02/15/24 14:30	02/17/24 09:52
680-246872-7	WAN-WGWC-17	Water	02/15/24 16:20	02/17/24 09:52
680-246872-8	WAN-WGWC-19	Water	02/15/24 13:46	02/17/24 09:52
680-246872-9	WAN-WGWC-21	Water	02/15/24 10:38	02/17/24 09:52
680-246872-10	WAN-WGWC-23	Water	02/15/24 10:50	02/17/24 09:52
680-246872-11	WAN-WGWC-25	Water	02/15/24 13:30	02/17/24 09:52
680-246872-12	WAN-WGWC-27	Water	02/15/24 13:40	02/17/24 09:52
680-246872-13	WAN-PZ-26D	Water	02/15/24 10:50	02/17/24 09:52
680-246872-14	WAN-AP1-FD-02	Water	02/15/24 00:00	02/17/24 09:52
680-246872-15	WAN-AP1-FD-03	Water	02/16/24 00:00	02/17/24 09:52
680-246872-16	WAN-AP1-FB-08	Water	02/15/24 13:05	02/17/24 09:52
680-246872-17	WAN-AP1-FB-09	Water	02/15/24 17:17	02/17/24 09:52
680-246872-18	WAN-AP1-EB-02	Water	02/15/24 11:35	02/17/24 09:52
680-246872-19	WAN-AP1-EB-03	Water	02/15/24 16:50	02/17/24 09:52
680-246872-20	WAN-WGWA-5	Water	02/16/24 11:15	02/17/24 09:52

Job ID: 680-246872-2 — Eurofins Savannah

Job Narrative
680-246872-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 2/17/2024 9:52 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 0.1°C, 2.3°C, 2.4°C, 2.8°C, 3.0°C, 3.3°C and 3.4°C.

Gas Flow Proportional Counter
Method 9315_Ra226: Radium 226 Batch 649203: The sample duplicate (DUP) precision for (680-246872-B-1-A DU) was outside the control limits. However the original sample and DUP activity is below the MDC / RL making the measurement of precision less critical. The lab does not believe this discrepancy to have a negative impact on the data being reported.

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.

Client Sample ID: WAN-WGWC-10

Lab Sample ID: 680-246872-1

Date Collected: 02/15/24 12:20

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.111	U	0.133	0.133	1.00	0.310	pCi/L	02/22/24 09:53	03/27/24 09:33	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.2*		*30 - 110*	*02/22/24 09:53*	*03/27/24 09:33*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.237	U	0.345	0.346	1.00	0.582	pCi/L	02/22/24 09:58	03/26/24 12:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.2*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:13*	*1*
Y Carrier	*78.9*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:13*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.126	U	0.370	0.371	2.00	0.582	pCi/L		03/28/24 10:45	1

Client Sample ID: WAN-WGWC-11

Lab Sample ID: 680-246872-2

Date Collected: 02/16/24 09:50

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.130	U	0.0609	0.0620	1.00	0.240	pCi/L	02/22/24 09:53	03/27/24 09:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.8*		*30 - 110*	*02/22/24 09:53*	*03/27/24 09:34*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.122	U	0.375	0.375	1.00	0.665	pCi/L	02/22/24 09:58	03/26/24 12:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.8*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:13*	*1*
Y Carrier	*79.6*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:13*	*1*

Client Sample ID: WAN-WGWC-11

Lab Sample ID: 680-246872-2

Date Collected: 02/16/24 09:50

Matrix: Water

Date Received: 02/17/24 09:52

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.00801	U	0.380	0.380	2.00	0.665	pCi/L		03/28/24 10:45	1

Client Sample ID: WAN-WGWC-13

Lab Sample ID: 680-246872-3

Date Collected: 02/15/24 15:55

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.108	U	0.119	0.119	1.00	0.188	pCi/L	02/22/24 09:53	03/27/24 09:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*02/22/24 09:53*	*03/27/24 09:34*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.477**		0.314	0.317	1.00	0.464	pCi/L	02/22/24 09:58	03/26/24 12:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:13*	*1*
Y Carrier	*86.0*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:13*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.585**		0.336	0.339	2.00	0.464	pCi/L		03/28/24 10:45	1

Client Sample ID: WAN-WGWC-14A

Lab Sample ID: 680-246872-4

Date Collected: 02/15/24 16:10

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.325**		0.168	0.170	1.00	0.189	pCi/L	02/22/24 09:53	03/27/24 09:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.2*		*30 - 110*	*02/22/24 09:53*	*03/27/24 09:34*	*1*

Client Sample ID: WAN-WGWC-14A

Lab Sample ID: 680-246872-4

Date Collected: 02/15/24 16:10
Matrix: Water
Date Received: 02/17/24 09:52

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.157	U	0.299	0.299	1.00	0.517	pCi/L	02/22/24 09:58	03/26/24 12:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.2*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:13*	*1*
Y Carrier	*85.6*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:13*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.482	U	0.343	0.344	2.00	0.517	pCi/L		03/28/24 10:45	1

Client Sample ID: WAN-WGWC-15

Lab Sample ID: 680-246872-5

Date Collected: 02/15/24 16:35
Matrix: Water
Date Received: 02/17/24 09:52

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.292**		0.179	0.181	1.00	0.234	pCi/L	02/22/24 09:53	03/27/24 09:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.6*		*30 - 110*	*02/22/24 09:53*	*03/27/24 09:34*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.316	U	0.324	0.326	1.00	0.524	pCi/L	02/22/24 09:58	03/26/24 12:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.6*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:13*	*1*
Y Carrier	*86.4*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:13*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.607**		0.370	0.373	2.00	0.524	pCi/L		03/28/24 10:45	1

Client Sample ID: WAN-WGWC-16

Lab Sample ID: 680-246872-6

Date Collected: 02/15/24 14:30

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.132	U	0.132	0.132	1.00	0.203	pCi/L	02/22/24 09:53	03/27/24 09:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.7*		*30 - 110*	*02/22/24 09:53*	*03/27/24 09:34*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.451	U	0.309	0.311	1.00	0.460	pCi/L	02/22/24 09:58	03/26/24 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.7*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:14*	*1*
Y Carrier	*88.2*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:14*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.582**		0.336	0.338	2.00	0.460	pCi/L		03/28/24 10:45	1

Client Sample ID: WAN-WGWC-17

Lab Sample ID: 680-246872-7

Date Collected: 02/15/24 16:20

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0443	U	0.124	0.124	1.00	0.240	pCi/L	02/22/24 09:53	03/27/24 09:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*70.8*		*30 - 110*	*02/22/24 09:53*	*03/27/24 09:35*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.213	U	0.373	0.373	1.00	0.642	pCi/L	02/22/24 09:58	03/26/24 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*70.8*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:14*	*1*
Y Carrier	*87.1*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:14*	*1*

Client Sample ID: WAN-WGWC-17

Lab Sample ID: 680-246872-7

Date Collected: 02/15/24 16:20

Matrix: Water

Date Received: 02/17/24 09:52

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.257	U	0.393	0.393	2.00	0.642	pCi/L		03/28/24 10:45	1

Client Sample ID: WAN-WGWC-19

Lab Sample ID: 680-246872-8

Date Collected: 02/15/24 13:46

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.139	U	0.125	0.126	1.00	0.182	pCi/L	02/22/24 09:53	03/27/24 09:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.2*		*30 - 110*	*02/22/24 09:53*	*03/27/24 09:36*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.384	U	0.304	0.306	1.00	0.467	pCi/L	02/22/24 09:58	03/26/24 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.2*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:14*	*1*
Y Carrier	*86.4*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:14*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.523**		0.329	0.331	2.00	0.467	pCi/L		03/28/24 10:45	1

Client Sample ID: WAN-WGWC-21

Lab Sample ID: 680-246872-9

Date Collected: 02/15/24 10:38

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.404**		0.194	0.197	1.00	0.219	pCi/L	02/22/24 09:53	03/27/24 09:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.2*		*30 - 110*	*02/22/24 09:53*	*03/27/24 09:36*	*1*

Client Sample ID: WAN-WGWC-21

Lab Sample ID: 680-246872-9

Date Collected: 02/15/24 10:38

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.897**		0.389	0.398	1.00	0.525	pCi/L	02/22/24 09:58	03/26/24 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.2*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:14*	*1*
Y Carrier	*87.1*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:14*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.30**		0.435	0.444	2.00	0.525	pCi/L		03/28/24 10:45	1

Client Sample ID: WAN-WGWC-23

Lab Sample ID: 680-246872-10

Date Collected: 02/15/24 10:50

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.223	U	0.176	0.177	1.00	0.256	pCi/L	02/22/24 09:53	03/27/24 09:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.4*		*30 - 110*	*02/22/24 09:53*	*03/27/24 09:36*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.00891	U	0.288	0.288	1.00	0.538	pCi/L	02/22/24 09:58	03/26/24 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.4*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:14*	*1*
Y Carrier	*87.1*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:14*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.232	U	0.338	0.338	2.00	0.538	pCi/L		03/28/24 10:45	1

Client Sample ID: WAN-WGWC-25

Lab Sample ID: 680-246872-11

Date Collected: 02/15/24 13:30

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.254		0.167	0.169	1.00	0.218	pCi/L	02/22/24 09:53	03/27/24 09:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.1*		*30 - 110*	*02/22/24 09:53*	*03/27/24 09:36*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.418	U	0.323	0.325	1.00	0.492	pCi/L	02/22/24 09:58	03/26/24 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.1*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:14*	*1*
Y Carrier	*86.4*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:14*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.672		0.364	0.366	2.00	0.492	pCi/L		03/28/24 10:45	1

Client Sample ID: WAN-WGWC-27

Lab Sample ID: 680-246872-12

Date Collected: 02/15/24 13:40

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.64		0.376	0.404	1.00	0.286	pCi/L	02/22/24 09:53	03/27/24 09:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*30 - 110*	*02/22/24 09:53*	*03/27/24 09:48*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.18		0.680	0.781	1.00	0.504	pCi/L	02/22/24 09:58	03/26/24 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:14*	*1*
Y Carrier	*87.1*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:14*	*1*

Client Sample ID: WAN-WGWC-27

Lab Sample ID: 680-246872-12

Date Collected: 02/15/24 13:40

Matrix: Water

Date Received: 02/17/24 09:52

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**5.82**		0.777	0.879	2.00	0.504	pCi/L		03/28/24 10:45	1

Client Sample ID: WAN-PZ-26D

Lab Sample ID: 680-246872-13

Date Collected: 02/15/24 10:50

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.274	U	0.202	0.204	1.00	0.295	pCi/L	02/22/24 09:53	03/27/24 09:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.9*		*30 - 110*	*02/22/24 09:53*	*03/27/24 09:48*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.785**		0.402	0.408	1.00	0.557	pCi/L	02/22/24 09:58	03/26/24 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.9*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:14*	*1*
Y Carrier	*81.9*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:14*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.06**		0.450	0.456	2.00	0.557	pCi/L		03/28/24 10:45	1

Client Sample ID: WAN-AP1-FD-02

Lab Sample ID: 680-246872-14

Date Collected: 02/15/24 00:00

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.53**		0.356	0.382	1.00	0.250	pCi/L	02/22/24 09:53	03/27/24 09:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*30 - 110*	*02/22/24 09:53*	*03/27/24 09:48*	*1*

Client Sample ID: WAN-AP1-FD-02

Lab Sample ID: 680-246872-14

Date Collected: 02/15/24 00:00

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**3.35**		0.656	0.725	1.00	0.590	pCi/L	02/22/24 09:58	03/26/24 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:26*	*1*
Y Carrier	*82.6*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:26*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**4.89**		0.746	0.819	2.00	0.590	pCi/L		03/28/24 10:45	1

Client Sample ID: WAN-AP1-FD-03

Lab Sample ID: 680-246872-15

Date Collected: 02/16/24 00:00

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0301	U	0.116	0.116	1.00	0.225	pCi/L	02/22/24 09:53	03/27/24 09:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.0*		*30 - 110*	*02/22/24 09:53*	*03/27/24 09:48*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.620**		0.401	0.405	1.00	0.600	pCi/L	02/22/24 09:58	03/26/24 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.0*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:26*	*1*
Y Carrier	*80.0*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:26*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**0.650**		0.417	0.421	2.00	0.600	pCi/L		03/28/24 10:45	1

Client Sample ID: WAN-AP1-FB-08

Lab Sample ID: 680-246872-16

Date Collected: 02/15/24 13:05

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0437	U	0.137	0.137	1.00	0.263	pCi/L	02/22/24 09:53	03/27/24 09:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.9*		*30 - 110*	*02/22/24 09:53*	*03/27/24 09:48*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0453	U	0.395	0.395	1.00	0.719	pCi/L	02/22/24 09:58	03/26/24 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.9*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:26*	*1*
Y Carrier	*85.6*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:26*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0890	U	0.418	0.418	2.00	0.719	pCi/L		03/28/24 10:45	1

Client Sample ID: WAN-AP1-FB-09

Lab Sample ID: 680-246872-17

Date Collected: 02/15/24 17:17

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00885	U	0.123	0.123	1.00	0.251	pCi/L	02/22/24 09:53	03/27/24 09:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.4*		*30 - 110*	*02/22/24 09:53*	*03/27/24 09:48*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.134	U	0.346	0.346	1.00	0.607	pCi/L	02/22/24 09:58	03/26/24 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.4*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:26*	*1*
Y Carrier	*88.6*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:26*	*1*

Client Sample ID: WAN-AP1-FB-09

Lab Sample ID: 680-246872-17

Date Collected: 02/15/24 17:17

Matrix: Water

Date Received: 02/17/24 09:52

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.143	U	0.367	0.367	2.00	0.607	pCi/L		03/28/24 10:45	1

Client Sample ID: WAN-AP1-EB-02

Lab Sample ID: 680-246872-18

Date Collected: 02/15/24 11:35

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0782	U	0.146	0.147	1.00	0.329	pCi/L	02/22/24 09:53	03/27/24 09:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.1*		*30 - 110*	*02/22/24 09:53*	*03/27/24 09:48*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.115	U	0.298	0.298	1.00	0.586	pCi/L	02/22/24 09:58	03/26/24 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.1*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:26*	*1*
Y Carrier	*87.1*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:26*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.194	U	0.332	0.332	2.00	0.586	pCi/L		03/28/24 10:45	1

Client Sample ID: WAN-AP1-EB-03

Lab Sample ID: 680-246872-19

Date Collected: 02/15/24 16:50

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0239	U	0.118	0.118	1.00	0.234	pCi/L	02/22/24 09:53	03/27/24 09:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.1*		*30 - 110*	*02/22/24 09:53*	*03/27/24 09:48*	*1*

Client Sample ID: WAN-AP1-EB-03

Lab Sample ID: 680-246872-19

Date Collected: 02/15/24 16:50

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.341	U	0.348	0.350	1.00	0.562	pCi/L	02/22/24 09:58	03/26/24 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.1*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:26*	*1*
Y Carrier	*83.4*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:26*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.365	U	0.367	0.369	2.00	0.562	pCi/L		03/28/24 10:45	1

Client Sample ID: WAN-WGWA-5

Lab Sample ID: 680-246872-20

Date Collected: 02/16/24 11:15

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0574	U	0.160	0.160	1.00	0.362	pCi/L	02/22/24 09:53	03/27/24 09:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.5*		*30 - 110*	*02/22/24 09:53*	*03/27/24 09:48*	*1*

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.616	U	0.425	0.429	1.00	0.638	pCi/L	02/22/24 09:58	03/26/24 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.5*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:26*	*1*
Y Carrier	*90.8*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:26*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.558	U	0.454	0.458	2.00	0.638	pCi/L		03/28/24 10:45	1

Tracer/Carrier Summary

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

Job ID: 680-246872-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(30-110)
680-246872-1	WAN-WGWC-10	96.2
680-246872-1 DU	WAN-WGWC-10	98.2
680-246872-2	WAN-WGWC-11	86.8
680-246872-3	WAN-WGWC-13	101
680-246872-4	WAN-WGWC-14A	97.2
680-246872-5	WAN-WGWC-15	92.6
680-246872-6	WAN-WGWC-16	98.7
680-246872-7	WAN-WGWC-17	70.8
680-246872-8	WAN-WGWC-19	97.2
680-246872-9	WAN-WGWC-21	98.2
680-246872-10	WAN-WGWC-23	91.4
680-246872-11	WAN-WGWC-25	91.1
680-246872-12	WAN-WGWC-27	85.3
680-246872-13	WAN-PZ-26D	91.9
680-246872-14	WAN-AP1-FD-02	85.8
680-246872-15	WAN-AP1-FD-03	97.0
680-246872-16	WAN-AP1-FB-08	76.9
680-246872-17	WAN-AP1-FB-09	90.4
680-246872-18	WAN-AP1-EB-02	90.1
680-246872-19	WAN-AP1-EB-03	90.1
680-246872-20	WAN-WGWA-5	97.5
LCS 160-649203/2-A	Lab Control Sample	98.0
MB 160-649203/1-A	Method Blank	99.5

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(30-110)	(30-110)
680-246872-1	WAN-WGWC-10	96.2	78.9
680-246872-1 DU	WAN-WGWC-10	98.2	83.7
680-246872-2	WAN-WGWC-11	86.8	79.6
680-246872-3	WAN-WGWC-13	101	86.0
680-246872-4	WAN-WGWC-14A	97.2	85.6
680-246872-5	WAN-WGWC-15	92.6	86.4
680-246872-6	WAN-WGWC-16	98.7	88.2
680-246872-7	WAN-WGWC-17	70.8	87.1
680-246872-8	WAN-WGWC-19	97.2	86.4
680-246872-9	WAN-WGWC-21	98.2	87.1
680-246872-10	WAN-WGWC-23	91.4	87.1
680-246872-11	WAN-WGWC-25	91.1	86.4
680-246872-12	WAN-WGWC-27	85.3	87.1
680-246872-13	WAN-PZ-26D	91.9	81.9
680-246872-14	WAN-AP1-FD-02	85.8	82.6
680-246872-15	WAN-AP1-FD-03	97.0	80.0
680-246872-16	WAN-AP1-FB-08	76.9	85.6

Tracer/Carrier Summary

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

Job ID: 680-246872-2

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

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
680-246872-17	WAN-AP1-FB-09	90.4	88.6
680-246872-18	WAN-AP1-EB-02	90.1	87.1
680-246872-19	WAN-AP1-EB-03	90.1	83.4
680-246872-20	WAN-WGWA-5	97.5	90.8
LCS 160-649206/2-A	Lab Control Sample	98.0	88.6
MB 160-649206/1-A	Method Blank	99.5	88.2

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-649203/1-A
Matrix: Water
Analysis Batch: 654147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649203

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.04802	U	0.0905	0.0906	1.00	0.223	pCi/L	02/22/24 09:53	03/27/24 09:33	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.5*		*30 - 110*	*02/22/24 09:53*	*03/27/24 09:33*	*1*

Lab Sample ID: LCS 160-649203/2-A
Matrix: Water
Analysis Batch: 654147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649203

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.99		1.30	1.00	0.213	pCi/L	97	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*98.0*		*30 - 110*

Lab Sample ID: 680-246872-1 DU
Matrix: Water
Analysis Batch: 654147

Client Sample ID: WAN-WGWC-10
Prep Type: Total/NA
Prep Batch: 649203

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	-0.111	U		0.2494	U F	0.179	1.00	0.252	pCi/L			1.16	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*98.2*		*30 - 110*

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-649206/1-A
Matrix: Water
Analysis Batch: 653959

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649206

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.1725	U	0.194	0.195	1.00	0.432	pCi/L	02/22/24 09:58	03/26/24 12:12	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.5*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:12*	*1*
Y Carrier	*88.2*		*30 - 110*	*02/22/24 09:58*	*03/26/24 12:12*	*1*

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

Lab Sample ID: LCS 160-649206/2-A
Matrix: Water
Analysis Batch: 653959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649206

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.09	9.281		1.24	1.00	0.479	pCi/L	102	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*98.0*		*30 - 110*
Y Carrier	*88.6*		*30 - 110*

Lab Sample ID: 680-246872-1 DU
Matrix: Water
Analysis Batch: 653959

Client Sample ID: WAN-WGWC-10
Prep Type: Total/NA
Prep Batch: 649206

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.237	U		0.2368	U	0.359	1.00	0.604	pCi/L			0	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*98.2*		*30 - 110*
Y Carrier	*83.7*		*30 - 110*

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Prep Batch: 649203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246872-1	WAN-WGWC-10	Total/NA	Water	PrecSep-21	
680-246872-2	WAN-WGWC-11	Total/NA	Water	PrecSep-21	
680-246872-3	WAN-WGWC-13	Total/NA	Water	PrecSep-21	
680-246872-4	WAN-WGWC-14A	Total/NA	Water	PrecSep-21	
680-246872-5	WAN-WGWC-15	Total/NA	Water	PrecSep-21	
680-246872-6	WAN-WGWC-16	Total/NA	Water	PrecSep-21	
680-246872-7	WAN-WGWC-17	Total/NA	Water	PrecSep-21	
680-246872-8	WAN-WGWC-19	Total/NA	Water	PrecSep-21	
680-246872-9	WAN-WGWC-21	Total/NA	Water	PrecSep-21	
680-246872-10	WAN-WGWC-23	Total/NA	Water	PrecSep-21	
680-246872-11	WAN-WGWC-25	Total/NA	Water	PrecSep-21	
680-246872-12	WAN-WGWC-27	Total/NA	Water	PrecSep-21	
680-246872-13	WAN-PZ-26D	Total/NA	Water	PrecSep-21	
680-246872-14	WAN-AP1-FD-02	Total/NA	Water	PrecSep-21	
680-246872-15	WAN-AP1-FD-03	Total/NA	Water	PrecSep-21	
680-246872-16	WAN-AP1-FB-08	Total/NA	Water	PrecSep-21	
680-246872-17	WAN-AP1-FB-09	Total/NA	Water	PrecSep-21	
680-246872-18	WAN-AP1-EB-02	Total/NA	Water	PrecSep-21	
680-246872-19	WAN-AP1-EB-03	Total/NA	Water	PrecSep-21	
680-246872-20	WAN-WGWA-5	Total/NA	Water	PrecSep-21	
MB 160-649203/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-649203/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
680-246872-1 DU	WAN-WGWC-10	Total/NA	Water	PrecSep-21	

Prep Batch: 649206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246872-1	WAN-WGWC-10	Total/NA	Water	PrecSep_0	
680-246872-2	WAN-WGWC-11	Total/NA	Water	PrecSep_0	
680-246872-3	WAN-WGWC-13	Total/NA	Water	PrecSep_0	
680-246872-4	WAN-WGWC-14A	Total/NA	Water	PrecSep_0	
680-246872-5	WAN-WGWC-15	Total/NA	Water	PrecSep_0	
680-246872-6	WAN-WGWC-16	Total/NA	Water	PrecSep_0	
680-246872-7	WAN-WGWC-17	Total/NA	Water	PrecSep_0	
680-246872-8	WAN-WGWC-19	Total/NA	Water	PrecSep_0	
680-246872-9	WAN-WGWC-21	Total/NA	Water	PrecSep_0	
680-246872-10	WAN-WGWC-23	Total/NA	Water	PrecSep_0	
680-246872-11	WAN-WGWC-25	Total/NA	Water	PrecSep_0	
680-246872-12	WAN-WGWC-27	Total/NA	Water	PrecSep_0	
680-246872-13	WAN-PZ-26D	Total/NA	Water	PrecSep_0	
680-246872-14	WAN-AP1-FD-02	Total/NA	Water	PrecSep_0	
680-246872-15	WAN-AP1-FD-03	Total/NA	Water	PrecSep_0	
680-246872-16	WAN-AP1-FB-08	Total/NA	Water	PrecSep_0	
680-246872-17	WAN-AP1-FB-09	Total/NA	Water	PrecSep_0	
680-246872-18	WAN-AP1-EB-02	Total/NA	Water	PrecSep_0	
680-246872-19	WAN-AP1-EB-03	Total/NA	Water	PrecSep_0	
680-246872-20	WAN-WGWA-5	Total/NA	Water	PrecSep_0	
MB 160-649206/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-649206/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
680-246872-1 DU	WAN-WGWC-10	Total/NA	Water	PrecSep_0	

Lab Chronicle

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

Job ID: 680-246872-2

Client Sample ID: WAN-WGWC-10

Lab Sample ID: 680-246872-1

Date Collected: 02/15/24 12:20

Matrix: Water

Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			998.07 mL	1.0 g	649203	02/22/24 09:53	KAC	EET SL
Total/NA	Analysis	9315		1			654147	03/27/24 09:33	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			998.07 mL	1.0 g	649206	02/22/24 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			653959	03/26/24 12:13	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654492	03/28/24 10:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWC-11

Lab Sample ID: 680-246872-2

Date Collected: 02/16/24 09:50

Matrix: Water

Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			994.03 mL	1.0 g	649203	02/22/24 09:53	KAC	EET SL
Total/NA	Analysis	9315		1			654147	03/27/24 09:34	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			994.03 mL	1.0 g	649206	02/22/24 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			653959	03/26/24 12:13	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654492	03/28/24 10:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWC-13

Lab Sample ID: 680-246872-3

Date Collected: 02/15/24 15:55

Matrix: Water

Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			999.42 mL	1.0 g	649203	02/22/24 09:53	KAC	EET SL
Total/NA	Analysis	9315		1			654147	03/27/24 09:34	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			999.42 mL	1.0 g	649206	02/22/24 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			653959	03/26/24 12:13	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654492	03/28/24 10:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWC-14A

Lab Sample ID: 680-246872-4

Date Collected: 02/15/24 16:10

Matrix: Water

Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1002.17 mL	1.0 g	649203	02/22/24 09:53	KAC	EET SL
Total/NA	Analysis	9315		1			654147	03/27/24 09:34	SWS	EET SL
	Instrument ID: GFPCRED									

Lab Chronicle

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

Job ID: 680-246872-2

Client Sample ID: WAN-WGWC-14A
Date Collected: 02/15/24 16:10
Date Received: 02/17/24 09:52

Lab Sample ID: 680-246872-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			1002.17 mL	1.0 g	649206	02/22/24 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			653959	03/26/24 12:13	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654492	03/28/24 10:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWC-15
Date Collected: 02/15/24 16:35
Date Received: 02/17/24 09:52

Lab Sample ID: 680-246872-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			996.61 mL	1.0 g	649203	02/22/24 09:53	KAC	EET SL
Total/NA	Analysis	9315		1			654147	03/27/24 09:34	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			996.61 mL	1.0 g	649206	02/22/24 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			653959	03/26/24 12:13	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654492	03/28/24 10:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWC-16
Date Collected: 02/15/24 14:30
Date Received: 02/17/24 09:52

Lab Sample ID: 680-246872-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1000.82 mL	1.0 g	649203	02/22/24 09:53	KAC	EET SL
Total/NA	Analysis	9315		1			654147	03/27/24 09:34	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			1000.82 mL	1.0 g	649206	02/22/24 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			653959	03/26/24 12:14	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654492	03/28/24 10:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWC-17
Date Collected: 02/15/24 16:20
Date Received: 02/17/24 09:52

Lab Sample ID: 680-246872-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1004.78 mL	1.0 g	649203	02/22/24 09:53	KAC	EET SL
Total/NA	Analysis	9315		1			654147	03/27/24 09:35	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			1004.78 mL	1.0 g	649206	02/22/24 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			653959	03/26/24 12:14	SCB	EET SL
	Instrument ID: GFPCRED									

Lab Chronicle

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

Job ID: 680-246872-2

Client Sample ID: WAN-WGWC-17

Lab Sample ID: 680-246872-7
Date Collected: 02/15/24 16:20
Matrix: Water
Date Received: 02/17/24 09:52

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			654492	03/28/24 10:45	SCB	EET SL

Client Sample ID: WAN-WGWC-19

Lab Sample ID: 680-246872-8
Date Collected: 02/15/24 13:46
Matrix: Water
Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			992.35 mL	1.0 g	649203	02/22/24 09:53	KAC	EET SL
Total/NA	Analysis	9315		1			654147	03/27/24 09:36	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			992.35 mL	1.0 g	649206	02/22/24 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			653959	03/26/24 12:14	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654492	03/28/24 10:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWC-21

Lab Sample ID: 680-246872-9
Date Collected: 02/15/24 10:38
Matrix: Water
Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			996.12 mL	1.0 g	649203	02/22/24 09:53	KAC	EET SL
Total/NA	Analysis	9315		1			654147	03/27/24 09:36	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			996.12 mL	1.0 g	649206	02/22/24 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			653959	03/26/24 12:14	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654492	03/28/24 10:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWC-23

Lab Sample ID: 680-246872-10
Date Collected: 02/15/24 10:50
Matrix: Water
Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			994.13 mL	1.0 g	649203	02/22/24 09:53	KAC	EET SL
Total/NA	Analysis	9315		1			654147	03/27/24 09:36	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			994.13 mL	1.0 g	649206	02/22/24 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			653959	03/26/24 12:14	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654492	03/28/24 10:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 680-246872-2

Client Sample ID: WAN-WGWC-25

Lab Sample ID: 680-246872-11
Date Collected: 02/15/24 13:30
Matrix: Water
Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			992.84 mL	1.0 g	649203	02/22/24 09:53	KAC	EET SL
Total/NA	Analysis	9315		1			654147	03/27/24 09:36	SWS	EET SL
	Instrument ID: GFPCRED									
Total/NA	Prep	PrecSep_0			992.84 mL	1.0 g	649206	02/22/24 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			653959	03/26/24 12:14	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654492	03/28/24 10:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWC-27

Lab Sample ID: 680-246872-12
Date Collected: 02/15/24 13:40
Matrix: Water
Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			993.84 mL	1.0 g	649203	02/22/24 09:53	KAC	EET SL
Total/NA	Analysis	9315		1			654173	03/27/24 09:48	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			993.84 mL	1.0 g	649206	02/22/24 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			653959	03/26/24 12:14	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654492	03/28/24 10:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-PZ-26D

Lab Sample ID: 680-246872-13
Date Collected: 02/15/24 10:50
Matrix: Water
Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			995.33 mL	1.0 g	649203	02/22/24 09:53	KAC	EET SL
Total/NA	Analysis	9315		1			654173	03/27/24 09:48	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			995.33 mL	1.0 g	649206	02/22/24 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			653959	03/26/24 12:14	SCB	EET SL
	Instrument ID: GFPCRED									
Total/NA	Analysis	Ra226_Ra228		1			654492	03/28/24 10:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-AP1-FD-02

Lab Sample ID: 680-246872-14
Date Collected: 02/15/24 00:00
Matrix: Water
Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			998.09 mL	1.0 g	649203	02/22/24 09:53	KAC	EET SL
Total/NA	Analysis	9315		1			654173	03/27/24 09:48	SWS	EET SL
	Instrument ID: GFPCBLUE									

Lab Chronicle

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

Job ID: 680-246872-2

Client Sample ID: WAN-AP1-FD-02

Lab Sample ID: 680-246872-14
Date Collected: 02/15/24 00:00
Matrix: Water
Date Received: 02/17/24 09:52

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			998.09 mL	1.0 g	649206	02/22/24 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			653989	03/26/24 12:26	SCB	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			654492	03/28/24 10:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-AP1-FD-03

Lab Sample ID: 680-246872-15
Date Collected: 02/16/24 00:00
Matrix: Water
Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			1003.14 mL	1.0 g	649203	02/22/24 09:53	KAC	EET SL
Total/NA	Analysis	9315		1			654173	03/27/24 09:48	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			1003.14 mL	1.0 g	649206	02/22/24 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			653989	03/26/24 12:26	SCB	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			654492	03/28/24 10:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-AP1-FB-08

Lab Sample ID: 680-246872-16
Date Collected: 02/15/24 13:05
Matrix: Water
Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			998.94 mL	1.0 g	649203	02/22/24 09:53	KAC	EET SL
Total/NA	Analysis	9315		1			654173	03/27/24 09:48	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			998.94 mL	1.0 g	649206	02/22/24 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			653989	03/26/24 12:26	SCB	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			654492	03/28/24 10:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-AP1-FB-09

Lab Sample ID: 680-246872-17
Date Collected: 02/15/24 17:17
Matrix: Water
Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			994.38 mL	1.0 g	649203	02/22/24 09:53	KAC	EET SL
Total/NA	Analysis	9315		1			654173	03/27/24 09:48	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			994.38 mL	1.0 g	649206	02/22/24 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			653989	03/26/24 12:26	SCB	EET SL
	Instrument ID: GFPCBLUE									

Lab Chronicle

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

Job ID: 680-246872-2

Client Sample ID: WAN-AP1-FB-09

Lab Sample ID: 680-246872-17

Date Collected: 02/15/24 17:17

Matrix: Water

Date Received: 02/17/24 09:52

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			654492	03/28/24 10:45	SCB	EET SL

Client Sample ID: WAN-AP1-EB-02

Lab Sample ID: 680-246872-18

Date Collected: 02/15/24 11:35

Matrix: Water

Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			995.63 mL	1.0 g	649203	02/22/24 09:53	KAC	EET SL
Total/NA	Analysis	9315		1			654173	03/27/24 09:48	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			995.63 mL	1.0 g	649206	02/22/24 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			653989	03/26/24 12:26	SCB	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			654492	03/28/24 10:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-AP1-EB-03

Lab Sample ID: 680-246872-19

Date Collected: 02/15/24 16:50

Matrix: Water

Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			995.73 mL	1.0 g	649203	02/22/24 09:53	KAC	EET SL
Total/NA	Analysis	9315		1			654173	03/27/24 09:48	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			995.73 mL	1.0 g	649206	02/22/24 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			653989	03/26/24 12:26	SCB	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			654492	03/28/24 10:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Client Sample ID: WAN-WGWA-5

Lab Sample ID: 680-246872-20

Date Collected: 02/16/24 11:15

Matrix: Water

Date Received: 02/17/24 09:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			746.41 mL	1.0 g	649203	02/22/24 09:53	KAC	EET SL
Total/NA	Analysis	9315		1			654173	03/27/24 09:48	SWS	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Prep	PrecSep_0			746.41 mL	1.0 g	649206	02/22/24 09:58	KAC	EET SL
Total/NA	Analysis	9320		1			653989	03/26/24 12:26	SCB	EET SL
	Instrument ID: GFPCBLUE									
Total/NA	Analysis	Ra226_Ra228		1			654492	03/28/24 10:45	SCB	EET SL
	Instrument ID: NOEQUIP									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-246872-2
Project/Site: Plant Wansley Ash Pond

Laboratory: Eurofins St. Louis

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87689	06-30-24

Method Summary

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

Job ID: 680-246872-2

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

Protocol References:

None = None

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

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

Laboratory References:

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

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: S Schnitker / ACC D. Johnson	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770 594 5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 1 of 2
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Atlanta	TAT Requested (days): Standard			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				Other:
Phone: 404-506-7116(Tel)	Lab Project #: 68027766			
Email: SCS Contacts / Geosyntec Contacts	PO #: GPC82130-0004			
Project Name: Plant Wansley Ash Pond	Project #:			
Site:	SSOW#:			

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=Comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=quality control)	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 6020/7470): Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Tl	Radium 226 & 228 (SW-846 9315/9320)	Major Ions - Carbonate, Bicarbonate, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of containers
			Preservation Code:				D	I	D	D	I	B, C	D	
WAN- WGWC-10	02/15/24	1220	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- WGWC-11	02/16/24	0950	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- WGWC-13	02/15/24	1555	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- WGWC-14A	02/15/24	1610	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- WGWC-15	02/15/24	1635	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- WGWC-16	02/15/24	1430	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- WGWC-17	02/15/24	1620	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- WGWC-19	02/15/24	1346	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- WGWC-21	02/15/24	1038	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- WGWC-23	02/15/24	1050	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- WGWC-25	02/15/24	1330	G	WG	N	N	✓	✓	✓	~	✓	✓	✓	8

Task_Code: WAN-CCR-ASSMT-2024S1

Special Instructions/Note: Full APP III and APP IV

680-246872 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	02/16/24 1500	ACC	Michael Mesker	2-16-24 1500	
Michael Mesker	2/16/24 1500				
				2/17/24 0952	

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.7/3.9 0.1/0.1 3.0/3.0 2.3/2.3 2.4/2.4 2.8/2.8 3.4/3.4

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: A Schmitter / ACC D. Johnson	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770 594 5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 2 of 2
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027766			
Email: SCS Contacts / Geosyntec Contacts	PO #: GPC82130-0004			
Project Name: Plant Wansley Ash Pond	Project #:			
Site:	SSOW#:			

Analysis 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:

Task_Code: WAN-CCR-ASSMT-2024S1

Special Instructions/Note: Full APP III and APP IV

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=Comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=equality control)	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 6020/7470): Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Tl	Radium 226 & 228 (SW-846 9315/9320)	Major Ions - Carbonate, Bicarbonate, Total Alkalinity	Major Ions - Sulfide	Major Ions - Iron, Magnesium, Manganese, Potassium, Sodium	Total Number of containers
			Preservation Code:				D	I	D	D	I	B, C	D	
WAN- WGWC-27	02/15/24	1340	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- PZ-26D	02/15/24	1050	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- AP1-FD-02	02/15/24	—	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- AP1-FD-03	02/16/24	—	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- AP1-FB-08	02/15/24	1305	G	WQ	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- AP1-FB-09	02/15/24	1717	G	WQ	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- AP1-EB-02	02/15/24	1135	G	WQ	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- AP1-EB-03	02/15/24	1650	G	WQ	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN- WGWA-5	02/16/24	1115	G	WG	N	N	✓	✓	✓	✓	✓	✓	✓	8
WAN-			G			N								
WAN-			G			N								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		02/16/24 1500	ACC	Michael Meskill	2/16/24 1500	
2	Michael Meskill	2/16/24 1500				
3					2/17/24 0952	

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

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-764159.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida; State - Georgia		Job #: 680-246872-2
Address: 13715 Rider Trail North,	Due Date Requested: 3/19/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Plant Wansley Ash Pond	Project #: 68027766			
Site:	SSOW#:			

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, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Ra226Ra228_GFPC/ Combined Radium-226 and Radium-228	9320_Ra228/PrecSep_0 Radium 228	9315_Ra226/PrecSep_21 Radium 226	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
WAN-WGWC-10 (680-246872-1)	2/15/24	12:20 Eastern		Water			X	X	X	2	
WAN-WGWC-11 (680-246872-2)	2/16/24	09:50 Eastern		Water			X	X	X	2	
WAN-WGWC-13 (680-246872-3)	2/15/24	15:55 Eastern		Water			X	X	X	2	
WAN-WGWC-14A (680-246872-4)	2/15/24	16:10 Eastern		Water			X	X	X	2	
WAN-WGWC-15 (680-246872-5)	2/15/24	16:35 Eastern		Water			X	X	X	2	
WAN-WGWC-16 (680-246872-6)	2/15/24	14:30 Eastern		Water			X	X	X	2	
WAN-WGWC-17 (680-246872-7)	2/15/24	16:20 Eastern		Water			X	X	X	2	
WAN-WGWC-19 (680-246872-8)	2/15/24	13:46 Eastern		Water			X	X	X	2	
WAN-WGWC-21 (680-246872-9)	2/15/24	10:38 Eastern		Water			X	X	X	2	

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

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	2/20/24 1330	EUROFINS	Sierra Worthington	FEB 21 2024 0840	EMSR
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 06/08/2021

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-764159.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida; State - Georgia		Job #: 680-246872-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 3/19/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Plant Wansley Ash Pond	Project #: 68027766			
Site:	SSOW#:			

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
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Ra226Ra228_GFPC/ Combined Radium-226 and Radium-228	9320_Ra228/PrecSep_0 Radium 228	9315_Ra226/PrecSep_21 Radium 226	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
WAN-WGWC-23 (680-246872-10)	2/15/24	10:50 Eastern		Water			X	X	X	2	
WAN-WGWC-25 (680-246872-11)	2/15/24	13:30 Eastern		Water			X	X	X	2	
WAN-WGWC-27 (680-246872-12)	2/15/24	13:40 Eastern		Water			X	X	X	2	
WAN-PZ-26D (680-246872-13)	2/15/24	10:50 Eastern		Water			X	X	X	2	
WAN-AP1-FD-02 (680-246872-14)	2/15/24	Eastern		Water			X	X	X	2	
WAN-AP1-FD-03 (680-246872-15)	2/16/24	Eastern		Water			X	X	X	2	
WAN-AP1-FB-08 (680-246872-16)	2/15/24	13:05 Eastern		Water			X	X	X	2	
WAN-AP1-FB-09 (680-246872-17)	2/15/24	17:17 Eastern		Water			X	X	X	2	
WAN-AP1-EB-02 (680-246872-18)	2/15/24	11:35 Eastern		Water			X	X	X	2	

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

Possible Hazard Identification
Unconfirmed

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: C. Mu	Date/Time: 2/20/24 1330	Company: Eurofins	Received by: Sierra Worthington	Date/Time: FEB 21 2024 0840	Company: GTASR
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

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

Ver: 06/08/2021

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-764159.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida; State - Georgia		Job #: 680-246872-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 3/19/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Plant Wansley Ash Pond	Project #: 68027766			
Site:	SSOW#:			

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, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Ra226Ra228_GFPC/ Combined Radium-226 and Radium-228	9320_Ra228/PrecSep_0 Radium 228	9315_Ra226/PrecSep_21 Radium 226	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
WAN-AP1-EB-03 (680-246872-19)	2/15/24	16:50 Eastern		Water			X	X	X	2	
WAN-WGWA-5 (680-246872-20)	2/16/24	11:15 Eastern		Water			X	X	X	2	

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

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by: Date: Time:	Method of Shipment:

Relinquished by: C Munro	Date/Time: 2/20/24 1330	Company: ETNFNS	Received by: Sara Worthington	Date/Time: FEB 21 2024 0840	Company: EMSL	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

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

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-246872-2

Login Number: 246872
List Number: 1
Creator: Johnson, Corey M

List Source: Eurofins Savannah

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

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-246872-2

Login Number: 246872
List Number: 2
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 02/21/24 01:21 PM

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/22/2024 2:16:12 PM

JOB DESCRIPTION

Plant Wansley - Ash Pond

JOB NUMBER

680-246882-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

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

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

Authorization



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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-246882-1
Project/Site: Plant Wansley - Ash Pond

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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

Sample Summary

Client: Southern Company
Job ID: 680-246882-1
Project/Site: Plant Wansley - Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-246882-1	WAN-WGWA-5	Water	02/16/24 11:15	02/17/24 09:52

Job ID: 680-246882-1 — Eurofins Savannah

Job Narrative
680-246882-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The sample was received on 2/17/2024 9:52 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

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

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

Job ID: 680-246882-1

Client Sample ID: WAN-WGWA-5

Lab Sample ID: 680-246882-1

Date Collected: 02/16/24 11:15

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:47	02/20/24 17:15	1
Arsenic, Dissolved	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:47	02/20/24 17:15	1
Barium, Dissolved	**0.013**	**B**	0.010	0.00089	mg/L		02/20/24 05:47	02/20/24 17:15	1
Beryllium, Dissolved	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:47	02/20/24 17:15	1
Boron, Dissolved	<0.022		0.080	0.022	mg/L		02/20/24 05:47	02/20/24 17:15	1
Cadmium, Dissolved	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:47	02/20/24 17:15	1
Calcium, Dissolved	**0.90**		0.50	0.14	mg/L		02/20/24 05:47	02/20/24 17:15	1
Chromium, Dissolved	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:47	02/20/24 17:15	1
Cobalt, Dissolved	**0.00054**	**J**	0.0025	0.00022	mg/L		02/20/24 05:47	02/20/24 17:15	1
Lead, Dissolved	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:47	02/20/24 17:15	1
Lithium, Dissolved	<0.0020		0.0050	0.0020	mg/L		02/20/24 05:47	02/20/24 17:15	1
Molybdenum, Dissolved	<0.00086		0.015	0.00086	mg/L		02/20/24 05:47	02/20/24 17:15	1
Selenium, Dissolved	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:47	02/20/24 17:15	1
Thallium, Dissolved	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:47	02/20/24 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 16:42	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-823462/1-A
Matrix: Water
Analysis Batch: 823730

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 823462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:47	02/20/24 16:01	1
Arsenic, Dissolved	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:47	02/20/24 16:01	1
Barium, Dissolved	0.000920	J	0.010	0.00089	mg/L		02/20/24 05:47	02/20/24 16:01	1
Beryllium, Dissolved	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:47	02/20/24 16:01	1
Boron, Dissolved	<0.022		0.080	0.022	mg/L		02/20/24 05:47	02/20/24 16:01	1
Cadmium, Dissolved	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:47	02/20/24 16:01	1
Calcium, Dissolved	<0.14		0.50	0.14	mg/L		02/20/24 05:47	02/20/24 16:01	1
Chromium, Dissolved	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:47	02/20/24 16:01	1
Cobalt, Dissolved	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:47	02/20/24 16:01	1
Lead, Dissolved	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:47	02/20/24 16:01	1
Lithium, Dissolved	<0.0020		0.0050	0.0020	mg/L		02/20/24 05:47	02/20/24 16:01	1
Molybdenum, Dissolved	<0.00086		0.015	0.00086	mg/L		02/20/24 05:47	02/20/24 16:01	1
Selenium, Dissolved	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:47	02/20/24 16:01	1
Thallium, Dissolved	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:47	02/20/24 16:01	1

Lab Sample ID: LCS 680-823462/2-A
Matrix: Water
Analysis Batch: 823730

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 823462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony, Dissolved	0.0500	0.0526		mg/L		105	80 - 120
Arsenic, Dissolved	0.100	0.102		mg/L		102	80 - 120
Barium, Dissolved	0.100	0.0928		mg/L		93	80 - 120
Beryllium, Dissolved	0.0500	0.0540		mg/L		108	80 - 120
Boron, Dissolved	0.400	0.421		mg/L		105	80 - 120
Cadmium, Dissolved	0.0500	0.0479		mg/L		96	80 - 120
Calcium, Dissolved	5.00	5.01		mg/L		100	80 - 120
Chromium, Dissolved	0.100	0.102		mg/L		102	80 - 120
Cobalt, Dissolved	0.0500	0.0529		mg/L		106	80 - 120
Lead, Dissolved	0.500	0.478		mg/L		96	80 - 120
Lithium, Dissolved	0.500	0.485		mg/L		97	80 - 120
Molybdenum, Dissolved	0.100	0.0964		mg/L		96	80 - 120
Selenium, Dissolved	0.100	0.0921		mg/L		92	80 - 120
Thallium, Dissolved	0.0500	0.0524		mg/L		105	80 - 120

Lab Sample ID: 680-246872-F-5-B MS
Matrix: Water
Analysis Batch: 823730

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 823462

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony, Dissolved	<0.00034		0.0500	0.0561		mg/L		112	75 - 125
Arsenic, Dissolved	<0.00086		0.100	0.101		mg/L		101	75 - 125
Barium, Dissolved	0.031	B	0.100	0.140		mg/L		109	75 - 125
Beryllium, Dissolved	<0.00020		0.0500	0.0504		mg/L		101	75 - 125
Boron, Dissolved	<0.022		0.400	0.442		mg/L		110	75 - 125
Cadmium, Dissolved	<0.000078		0.0500	0.0523		mg/L		105	75 - 125
Calcium, Dissolved	31		5.00	36.4	4	mg/L		106	75 - 125
Chromium, Dissolved	<0.0012		0.100	0.100		mg/L		100	75 - 125
Cobalt, Dissolved	<0.00022		0.0500	0.0513		mg/L		103	75 - 125

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

Lab Sample ID: 680-246872-F-5-B MS
Matrix: Water
Analysis Batch: 823730

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 823462

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead, Dissolved	<0.00021		0.500	0.493		mg/L		99	75 - 125
Lithium, Dissolved	0.0055		0.500	0.501		mg/L		99	75 - 125
Molybdenum, Dissolved	0.0021	J	0.100	0.100		mg/L		98	75 - 125
Selenium, Dissolved	<0.00099		0.100	0.0964		mg/L		96	75 - 125
Thallium, Dissolved	<0.00026		0.0500	0.0534		mg/L		107	75 - 125

Lab Sample ID: 680-246872-F-5-C MSD
Matrix: Water
Analysis Batch: 823730

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 823462

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony, Dissolved	<0.00034		0.0500	0.0577		mg/L		115	75 - 125	3	20
Arsenic, Dissolved	<0.00086		0.100	0.102		mg/L		102	75 - 125	1	20
Barium, Dissolved	0.031	B	0.100	0.134		mg/L		103	75 - 125	4	20
Beryllium, Dissolved	<0.00020		0.0500	0.0511		mg/L		102	75 - 125	1	20
Boron, Dissolved	<0.022		0.400	0.422		mg/L		105	75 - 125	5	20
Cadmium, Dissolved	<0.000078		0.0500	0.0539		mg/L		108	75 - 125	3	20
Calcium, Dissolved	31		5.00	34.8	4	mg/L		74	75 - 125	4	20
Chromium, Dissolved	<0.0012		0.100	0.102		mg/L		102	75 - 125	2	20
Cobalt, Dissolved	<0.00022		0.0500	0.0514		mg/L		103	75 - 125	0	20
Lead, Dissolved	<0.00021		0.500	0.498		mg/L		100	75 - 125	1	20
Lithium, Dissolved	0.0055		0.500	0.515		mg/L		102	75 - 125	3	20
Molybdenum, Dissolved	0.0021	J	0.100	0.100		mg/L		98	75 - 125	0	20
Selenium, Dissolved	<0.00099		0.100	0.0967		mg/L		97	75 - 125	0	20
Thallium, Dissolved	<0.00026		0.0500	0.0549		mg/L		110	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-823651/1-A
Matrix: Water
Analysis Batch: 823946

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 823651

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 15:43	1

Lab Sample ID: LCS 680-823651/2-A
Matrix: Water
Analysis Batch: 823946

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 823651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury, Dissolved	0.00250	0.00279		mg/L		112	80 - 120

Lab Sample ID: 680-246872-F-4-D MS
Matrix: Water
Analysis Batch: 823946

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 823651

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury, Dissolved	<0.000080	F2	0.00100	0.00110		mg/L		110	80 - 120

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

Job ID: 680-246882-1

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

Lab Sample ID: 680-246872-F-4-E MSD
Matrix: Water
Analysis Batch: 823946

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 823651

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury, Dissolved	<0.000080	F2	0.00100	0.000894	F2	mg/L		89	80 - 120	21	20

QC Association Summary

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

Job ID: 680-246882-1

Metals

Prep Batch: 823462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246882-1	WAN-WGWA-5	Dissolved	Water	3005A	
MB 680-823462/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-823462/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-246872-F-5-B MS	Matrix Spike	Total Recoverable	Water	3005A	
680-246872-F-5-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 823651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246882-1	WAN-WGWA-5	Dissolved	Water	7470A	
MB 680-823651/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-823651/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-246872-F-4-D MS	Matrix Spike	Total/NA	Water	7470A	
680-246872-F-4-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 823730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246882-1	WAN-WGWA-5	Dissolved	Water	6020B	823462
MB 680-823462/1-A	Method Blank	Total Recoverable	Water	6020B	823462
LCS 680-823462/2-A	Lab Control Sample	Total Recoverable	Water	6020B	823462
680-246872-F-5-B MS	Matrix Spike	Total Recoverable	Water	6020B	823462
680-246872-F-5-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	823462

Analysis Batch: 823946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246882-1	WAN-WGWA-5	Dissolved	Water	7470A	823651
MB 680-823651/1-A	Method Blank	Total/NA	Water	7470A	823651
LCS 680-823651/2-A	Lab Control Sample	Total/NA	Water	7470A	823651
680-246872-F-4-D MS	Matrix Spike	Total/NA	Water	7470A	823651
680-246872-F-4-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	823651

Lab Chronicle

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

Job ID: 680-246882-1

Client Sample ID: WAN-WGWA-5
Date Collected: 02/16/24 11:15
Date Received: 02/17/24 09:52

Lab Sample ID: 680-246882-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			25 mL	125 mL	823462	02/20/24 05:47	RR	EET SAV
Dissolved	Analysis	6020B		1			823730	02/20/24 17:15	BWR	EET SAV
	Instrument ID: ICPMSD									
Dissolved	Prep	7470A			50 mL	50 mL	823651	02/20/24 15:32	DW	EET SAV
Dissolved	Analysis	7470A		1			823946	02/21/24 16:42	BJB	EET SAV
	Instrument ID: QuickTrace3									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-246882-1
Project/Site: Plant Wansley - Ash Pond

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24

Method Summary

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

Job ID: 680-246882-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

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

Laboratory References:

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

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: ACC A. Schnittker / D. Johnson	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770-594-5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 1 of 1
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027766			
Email: SCS Contacts / Geosyntec Contacts	PO #: GPC82130-0004			
Project Name: Plant Wansley Ash Pond	Project #:			
Site:	SSOW#:			

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 - NaOH, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Task_Code: WAN-CCR-ASSMT-2024S1

Special Instructions/Note: Full APP III and APP IV

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=quality control)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Dissolved App III Metals: B, Ca	Dissolved App IV Metals (EPA 6020/7470): Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Tl	Total Number of containers
			Preservation Code:				D	D	
WAN-WGWA-5	02/16/24	1115	G	WG	Y	N	X	X	1

680-246882 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		02/16/24 1500	ACC		2-16-24 15:00	
2		2-16-24 15:00				
3					2/16/24 0952	

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 3.0/2.0

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-246882-1

Login Number: 246882

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/29/2024 10:55:01 AM

JOB DESCRIPTION

Plant Wansley Ash Pond - Risk Evaluation

JOB NUMBER

680-247017-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

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

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

Authorization



Generated
2/29/2024 10:55:01 AM

Authorized for release by
Nikita Kuruganty, Project Manager
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Designee for
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-247017-1
Project/Site: Plant Wansley Ash Pond - Risk Evaluation

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

Sample Summary

Client: Southern Company
Job ID: 680-247017-1
Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-247017-1	WAN-WCR(+0.1)	Water	02/20/24 11:15	02/22/24 14:56
680-247017-2	WAN-WCR(+1.9)	Water	02/20/24 10:38	02/22/24 14:56
680-247017-3	WAN-WCR(-0.6)	Water	02/20/24 11:54	02/22/24 14:56

Job ID: 680-247017-1 Eurofins Savannah

Job Narrative
680-247017-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 2/22/2024 2:56 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.1°C.

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

Client Sample Results

Client: Southern Company
Job ID: 680-247017-1
Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Client Sample ID: WAN-WCR(+0.1)
Lab Sample ID: 680-247017-1
Date Collected: 02/20/24 11:15
Matrix: Water
Date Received: 02/22/24 14:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		02/23/24 05:57	02/24/24 01:46	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium, Dissolved	<0.0050		0.0050	0.0020	mg/L		02/28/24 07:31	02/28/24 15:04	1

Client Sample ID: WAN-WCR(+1.9)
Lab Sample ID: 680-247017-2
Date Collected: 02/20/24 10:38
Matrix: Water
Date Received: 02/22/24 14:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		02/23/24 05:57	02/24/24 02:55	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium, Dissolved	<0.0050		0.0050	0.0020	mg/L		02/28/24 07:31	02/28/24 15:12	1

Client Sample ID: WAN-WCR(-0.6)
Lab Sample ID: 680-247017-3
Date Collected: 02/20/24 11:54
Matrix: Water
Date Received: 02/22/24 14:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		02/23/24 05:57	02/24/24 02:06	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium, Dissolved	<0.0050		0.0050	0.0020	mg/L		02/28/24 07:31	02/28/24 15:09	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-824118/1-A
Matrix: Water
Analysis Batch: 824321

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 824118

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		02/23/24 05:57	02/24/24 00:00	1

Lab Sample ID: LCS 680-824118/2-A
Matrix: Water
Analysis Batch: 824321

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 824118

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.481		mg/L		96	80 - 120

Lab Sample ID: 680-247011-B-11-B MS
Matrix: Water
Analysis Batch: 824321

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 824118

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.0053		0.500	0.507		mg/L		100	75 - 125

Lab Sample ID: 680-247011-B-11-C MSD
Matrix: Water
Analysis Batch: 824321

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 824118

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.0053		0.500	0.489		mg/L		97	75 - 125	4	20

Lab Sample ID: MB 680-824120/1-A
Matrix: Water
Analysis Batch: 824321

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 824120

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		02/23/24 05:57	02/24/24 01:58	1

Lab Sample ID: LCS 680-824120/2-A
Matrix: Water
Analysis Batch: 824321

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 824120

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.467		mg/L		93	80 - 120

Lab Sample ID: 680-247017-3 MS
Matrix: Water
Analysis Batch: 824321

Client Sample ID: WAN-WCR(-0.6)
Prep Type: Total Recoverable
Prep Batch: 824120

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	<0.0050		0.500	0.472		mg/L		94	75 - 125

Lab Sample ID: 680-247017-3 MSD
Matrix: Water
Analysis Batch: 824321

Client Sample ID: WAN-WCR(-0.6)
Prep Type: Total Recoverable
Prep Batch: 824120

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	<0.0050		0.500	0.476		mg/L		95	75 - 125	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-824906/1-A
Matrix: Water
Analysis Batch: 825099

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 824906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium, Dissolved	<0.0050		0.0050	0.0020	mg/L		02/28/24 07:31	02/28/24 14:49	1

Lab Sample ID: LCS 680-824906/2-A
Matrix: Water
Analysis Batch: 825099

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 824906

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Lithium, Dissolved			0.500	0.512		mg/L		102	80 - 120		

Lab Sample ID: 680-247073-E-3-H MS
Matrix: Water
Analysis Batch: 825099

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 824906

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Lithium, Dissolved	<0.0050		0.500	0.482		mg/L		96	75 - 125		

Lab Sample ID: 680-247073-E-3-I MSD
Matrix: Water
Analysis Batch: 825099

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 824906

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium, Dissolved	<0.0050		0.500	0.485		mg/L		97	75 - 125	1	20

Metals

Prep Batch: 824118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247017-1	WAN-WCR(+0.1)	Total Recoverable	Water	3005A	
MB 680-824118/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-824118/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-247011-B-11-B MS	Matrix Spike	Total Recoverable	Water	3005A	
680-247011-B-11-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 824120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247017-2	WAN-WCR(+1.9)	Total Recoverable	Water	3005A	
680-247017-3	WAN-WCR(-0.6)	Total Recoverable	Water	3005A	
MB 680-824120/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-824120/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-247017-3 MS	WAN-WCR(-0.6)	Total Recoverable	Water	3005A	
680-247017-3 MSD	WAN-WCR(-0.6)	Total Recoverable	Water	3005A	

Analysis Batch: 824321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247017-1	WAN-WCR(+0.1)	Total Recoverable	Water	6020B	824118
680-247017-2	WAN-WCR(+1.9)	Total Recoverable	Water	6020B	824120
680-247017-3	WAN-WCR(-0.6)	Total Recoverable	Water	6020B	824120
MB 680-824118/1-A	Method Blank	Total Recoverable	Water	6020B	824118
MB 680-824120/1-A	Method Blank	Total Recoverable	Water	6020B	824120
LCS 680-824118/2-A	Lab Control Sample	Total Recoverable	Water	6020B	824118
LCS 680-824120/2-A	Lab Control Sample	Total Recoverable	Water	6020B	824120
680-247011-B-11-B MS	Matrix Spike	Total Recoverable	Water	6020B	824118
680-247011-B-11-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	824118
680-247017-3 MS	WAN-WCR(-0.6)	Total Recoverable	Water	6020B	824120
680-247017-3 MSD	WAN-WCR(-0.6)	Total Recoverable	Water	6020B	824120

Filtration Batch: 824904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247017-1	WAN-WCR(+0.1)	Dissolved	Water	FILTRATION	
680-247017-2	WAN-WCR(+1.9)	Dissolved	Water	FILTRATION	
680-247017-3	WAN-WCR(-0.6)	Dissolved	Water	FILTRATION	
680-247073-E-3-H MS	Matrix Spike	Dissolved	Water	FILTRATION	
680-247073-E-3-I MSD	Matrix Spike Duplicate	Dissolved	Water	FILTRATION	

Prep Batch: 824906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247017-1	WAN-WCR(+0.1)	Dissolved	Water	3005A	824904
680-247017-2	WAN-WCR(+1.9)	Dissolved	Water	3005A	824904
680-247017-3	WAN-WCR(-0.6)	Dissolved	Water	3005A	824904
MB 680-824906/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-824906/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-247073-E-3-H MS	Matrix Spike	Dissolved	Water	3005A	824904
680-247073-E-3-I MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	824904

Analysis Batch: 825099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247017-1	WAN-WCR(+0.1)	Dissolved	Water	6020B	824906
680-247017-2	WAN-WCR(+1.9)	Dissolved	Water	6020B	824906

Metals (Continued)

Analysis Batch: 825099 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-247017-3	WAN-WCR(-0.6)	Dissolved	Water	6020B	824906
MB 680-824906/1-A	Method Blank	Total Recoverable	Water	6020B	824906
LCS 680-824906/2-A	Lab Control Sample	Total Recoverable	Water	6020B	824906
680-247073-E-3-H MS	Matrix Spike	Dissolved	Water	6020B	824906
680-247073-E-3-I MSD	Matrix Spike Duplicate	Dissolved	Water	6020B	824906

Lab Chronicle

Client: Southern Company
Job ID: 680-247017-1
Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Client Sample ID: WAN-WCR(+0.1)
Lab Sample ID: 680-247017-1
Date Collected: 02/20/24 11:15
Matrix: Water
Date Received: 02/22/24 14:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			25 mL	25 mL	824904	02/28/24 07:31	RR	EET SAV
Dissolved	Prep	3005A			25 mL	125 mL	824906	02/28/24 07:31	RR	EET SAV
Dissolved	Analysis	6020B		1			825099	02/28/24 15:04	BWR	EET SAV
	Instrument ID: ICPMSD									
Total Recoverable	Prep	3005A			25 mL	125 mL	824118	02/23/24 05:57	RR	EET SAV
Total Recoverable	Analysis	6020B		1			824321	02/24/24 01:46	BWR	EET SAV
	Instrument ID: ICPMSC									

Client Sample ID: WAN-WCR(+1.9)
Lab Sample ID: 680-247017-2
Date Collected: 02/20/24 10:38
Matrix: Water
Date Received: 02/22/24 14:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			25 mL	25 mL	824904	02/28/24 07:31	RR	EET SAV
Dissolved	Prep	3005A			25 mL	125 mL	824906	02/28/24 07:31	RR	EET SAV
Dissolved	Analysis	6020B		1			825099	02/28/24 15:12	BWR	EET SAV
	Instrument ID: ICPMSD									
Total Recoverable	Prep	3005A			25 mL	125 mL	824120	02/23/24 05:57	RR	EET SAV
Total Recoverable	Analysis	6020B		1			824321	02/24/24 02:55	BWR	EET SAV
	Instrument ID: ICPMSC									

Client Sample ID: WAN-WCR(-0.6)
Lab Sample ID: 680-247017-3
Date Collected: 02/20/24 11:54
Matrix: Water
Date Received: 02/22/24 14:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			25 mL	25 mL	824904	02/28/24 07:31	RR	EET SAV
Dissolved	Prep	3005A			25 mL	125 mL	824906	02/28/24 07:31	RR	EET SAV
Dissolved	Analysis	6020B		1			825099	02/28/24 15:09	BWR	EET SAV
	Instrument ID: ICPMSD									
Total Recoverable	Prep	3005A			25 mL	125 mL	824120	02/23/24 05:57	RR	EET SAV
Total Recoverable	Analysis	6020B		1			824321	02/24/24 02:06	BWR	EET SAV
	Instrument ID: ICPMSC									

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-247017-1
Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24

Method Summary

Client: Southern Company
Job ID: 680-247017-1
Project/Site: Plant Wansley Ash Pond - Risk Evaluation

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
FILTRATION	Sample Filtration	None	EET SAV

Protocol References:

None = None

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

Laboratory References:

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

Eurofins Test America, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

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Client Information	Sampler: A Schnittker / B. Maxwell (ACC)	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770 594 5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 1 of 1
Company: GA Power		Analysis Requested		Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:			Preservation Codes:
City: Atlanta	TAT Requested (days): Standard			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				
Phone: 404-506-7116(Tel)	Lab Project #: 68027766			Other:
Email: SCS Contacts / Geosyntec Contacts / ACC Contacts	PO #: GPC82130-0004			
Project Name: Plant Wansley Ash Pond - Risk Evaluation	Project #:			
Site:	SSOW#:			Task_Code: WAN-CSURF-ASSMT-2024S1

244-ATLANTA

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=Comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=quality control)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Lithium	Dissolved Lithium (lab to filter)	Total Number of containers	Special Instructions/Note: If Dissolved Metals required, lab to filter.
			Preservation Code:				D	N		
WAN- WCR(+0.1)	02/20/24	1115	G	WS	N	N	✓	✓	2	
WAN- WCR(+1.9)	02/20/24	1038	G	WS	N	N	✓	✓	2	
WAN- WCR(-0.6)	02/20/24	1154	G	WS	N	N	✓	✓	2	

680-247017 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: **Do NOT report to MDL, and do NOT include J-flagged data**

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		02/20/24 1700	ACC		2/20/24 1700	ACC
2		2/21/24 0851	ACC	Michael Meikle	2/21/24 0851	
3	Michael Meikle	2-21-24 0851			2/22/24 1019	

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.1 / 0.1

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-247017-1

Login Number: 247017
List Number: 1
Creator: Johnson, Corey M

List Source: Eurofins Savannah

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

Geosyntec consultants

180A Market Place Boulevard
Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date:	16 July 2024
To:	Courtney Collins
From:	Matthew Richardson
CC:	Kristoffer Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverable – Eurofins Laboratory Job ID 680-246862-1 Revision 1**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of fourteen water samples, one field duplicate, one equipment blank and one field blank, collected 13-14 February 2024, as part of the Plant Wansley Ash Pond on-site sampling event. The samples were analyzed at Eurofins Savannah, Georgia, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by USEPA Method 7470A
- Alkalinity by Standard Method (SM) 2320B
- Sulfide by SM 4500-S2 F-2011
- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0
- Total Dissolved Solids (TDS) by 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 exception.

The non-detect carbonate alkalinity as CaCO3 result for sample WAN-WGWA-6 was R qualified as rejected due to holding time exceedance.

The remaining qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with 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 sample was analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
680-246862-1	WAN-WGWA-1
680-246862-2	WAN-WGWA-2
680-246862-3	WAN-WGWA-3
680-246862-4	WAN-WGWA-4
680-246862-5	WAN-WGWA-6
680-246862-6	WAN-WGWC-20
680-246862-7	WAN-WGWC-8
680-246862-8	WAN-AP1-FB-07
680-246862-9	WAN-WGWA-7

Laboratory IDs	Client IDs
680-246862-10	WAN-WGWA-18
680-246862-11	WAN-AP1-FD-01
680-246862-12	WAN-WGWC-9
680-246862-13	WAN-WGWC-28D
680-246862-14	WAN-AP1-EB-01
680-246862-15	WAN-WGWC-24
680-246862-16	WAN-WGWC-12
680-246862-17	WAN-WGWC-22

The laboratory reported results for the analytical method(s) requested for each sample on the chain of custody (COC).

There was a time lapse for the second sample transfer times. The second sample relinquishing was documented as 02/15/24, 08:30 and the second sample receiving was documented as 02/15/24, 08:37.

The sample was received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The laboratory report was revised on 5 March 2024 to report the reanalysis of alkalinity in sample WAN-WGWA-6. The revised report was identified as 680-248862-1 Revision 1.

1.0 METALS

The sample was 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
- ⊗ Field Duplicate
- ⊗ Equipment Blank
- ⊗ Field Blank
- ✓ 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 time was 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). Metals were not detected in the method blank at or above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs 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 WAN-WGWA-1. 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). The recovery results were within the laboratory specified acceptance criteria.

1.6 Field Duplicate

One field duplicate sample, WAN-AP1-FD-01, was collected with the sample set. Acceptable precision (RPD ≤30%) was demonstrated between the field duplicate and the original sample, WAN-WGWC-12, with the following exceptions.

Lead was detected in the field duplicate sample WAN-AP1-FD-01 at an estimated concentration greater than the MDL and less than the reporting limit (RL) and not detected in the parent sample WAN-WGWC-12, resulting in a noncalculable RPD result. Therefore, the lead concentration in sample WAN-AP1-FD-01 was J qualified as estimated, and the non-detect result of lead in sample WAN-WGWC-12 was UJ qualified as estimated less than the MDL.

Arsenic was detected in the parent sample WAN-WGWC-12 at a concentration greater than the RL and detected in the field duplicate sample WAN-AP1-FD-01 at an estimated concentration greater than the MDL and less than the RL, resulting in a noncalculable RPD result. Therefore, the arsenic concentrations in samples WAN-WGWC-12 and WAN-AP1-FD-01 were J qualified as estimated.

The RPD for iron in the field duplicate pair was greater than 30%. Therefore, the iron concentrations in samples WAN-WGWC-12 and WAN-AP1-FD-01 were J qualified as estimated.

Sample	**Analyte**	**Laboratory Result (mg/L)**	**Laboratory Flag**	**RPD**	**Validation Result (mg/L)**	**Validation Qualifier***	**Reason Code****
WAN-AP1-FD-01	Arsenic	0.00091	J	NC	0.00091	J	RPDF2
WAN-WGWC-12	Arsenic	0.0010	NA		0.0010	J	RPDF2
WAN-AP1-FD-01	Iron	4.6	NA	88	4.6	J	RPDF1
WAN-WGWC-12	Iron	1.8	NA		1.8	J	RPDF1
WAN-AP1-FD-01	Lead	0.00035	J	NC	0.00035	J	RPDF2
WAN-WGWC-12	Lead	0.00021	U		0.00021	UJ	RPDF2

mg/L-milligrams per liter
J-estimated concentration greater than or equal to the MDL and less than the RL
NA-not applicable
U-not detected at a concentration greater than or equal to the MDL
NC-noncalculable
* 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 Equipment Blank

One equipment blank, WAN-AP1-EB-01, was collected with the sample set. Metals were not detected in the equipment blank at or above the MDLs, with the following exceptions.

Arsenic and boron were detected in the equipment blank at estimated concentrations greater than the MDLs and less than the RLs. Since boron in the associated samples was not detected or detected at a concentration greater than ten times the blank contamination, no qualifications were applied to the boron data. However, the estimated arsenic concentration in the associated sample WAN-WGWA-7 was U qualified as not detected at the RL.

Furthermore, two additional equipment blanks, WAN-AP1-EB-02 and WAN-AP1-EB-03, were collected with the sample set and reported in laboratory report 680-246872-1. Metals were not detected in the equipment blanks at or above the MDLs, with the following exception. Potassium was detected in the equipment blank WAN-AP1-EB-03 at an estimated concentration greater than the MDL and less than the RL. Since potassium was detected in the associated samples at concentrations greater than ten times the blank contamination and based on professional and technical judgment, no qualifications were applied to the data.

Sample	**Analyte**	**Laboratory Result (mg/L)**	**Laboratory Flag**	**Validation Result (mg/L)**	**Validation Qualifier**	**Reason Code**
WAN-WGWA-7	Arsenic	0.00097	J	0.0010	U	BEL

mg/L-milligrams per liter
J-estimated concentration greater than or equal to the MDL and less than the RL

1.8 Field Blank

One field blank, WAN-AP1-FB-07, was collected with the sample set. Metals were not detected in the field blank at or above the MDLs, with the following exception.

Lithium was detected in the equipment blank at an estimated concentration greater than the MDL and less than the RL. Therefore, based on professional and technical judgment, the estimated lithium concentrations in the associated samples were U qualified as not detected at the RL, and the lithium concentrations in the associated samples that were less than ten times the blank contamination were J+ qualified as estimated with a high bias.

Sample	**Analyte**	**Laboratory Result (mg/L)**	**Laboratory Flag**	**Validation Result (mg/L)**	**Validation Qualifier**	**Reason Code**
WAN-WGWC-9	Lithium	0.026	NA	0.026	J+	3
WAN-AP1-FD-01	Lithium	0.0051	NA	0.0051	J+	3
WAN-WGWA-2	Lithium	0.0082	NA	0.0082	J+	3

Sample	**Analyte**	**Laboratory Result (mg/L)**	**Laboratory Flag**	**Validation Result (mg/L)**	**Validation Qualifier**	**Reason Code**
WAN-WGWA-4	Lithium	0.0061	NA	0.0061	J+	3
WAN-WGWA-6	Lithium	0.0054	NA	0.0054	J+	3
WAN-WGWC-8	Lithium	0.012	NA	0.012	J+	3
WAN-WGWA-1	Lithium	0.0049	J	0.0050	U	3
WAN-WGWA-18	Lithium	0.0028	J	0.0050	U	3
WAN-WGWC-24	Lithium	0.0044	J	0.0050	U	3
WAN-WGWC-12	Lithium	0.0045	J	0.0050	U	3
WAN-WGWC-22	Lithium	0.0028	J	0.0050	U	3

mg/L-milligrams per liter
J-estimated concentration greater than or equal to the MDL and less than the RL
NA-not applicable

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 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.

2.0 MERCURY

The sample was analyzed for mercury per 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 Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Field Blank
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

The mercury data reported in this data package are considered to be 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 the sample submitted for this analysis, for this data package is 100%.

2.2 Holding Times

The holding time for the mercury analysis of a soil sample is 28 days from sample collection to analysis. The holding time was 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). Mercury was not detected in the method blanks at or 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 WAN-AP1-FD-01. The recovery and RPD results were within the laboratory specified acceptance criteria.

One batch MS/MSD pair was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data

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). The recovery results were within the laboratory specified acceptance criteria.

2.6 Field Blank

One field blank, WAN-AP1-FB-07, was collected with the sample set. Mercury was not detected in the field blank at or above the MDL.

2.7 Equipment Blank

One equipment blank, WAN-AP1-EB-01, was collected with the sample set. Mercury was not detected in the equipment blank at or above the MDL.

Furthermore, two additional equipment blanks, WAN-AP1-EB-02 and WAN-AP1-EB-03, were collected with the sample set and reported in laboratory report 680-246872-1. Mercury was not detected in the equipment blanks at or above the MDL.

2.8 Field Duplicate

One field duplicate sample, WAN-AP1-FD-01, was collected with the sample set. Acceptable precision (RPD <30%) was demonstrated between the field duplicate and the original sample, WAN-WGWC-12.

2.9 Sensitivity

The sample was reported to the MDLs. Elevated non-detect results were not reported. The MDLs met the reference limits listed in QAPP Worksheet #15 of the QAPP.

2.10 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20%. No discrepancies were identified between the level II report and the EDD.

3.0 WET CHEMISTRY

The sample was analyzed for anions by US EPA method 300.0, sulfide by SM 4500 S2 F-2011, alkalinity by SM 2320B-2011 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
⊗ Equipment Blank
✓ Field Blank
✓ Field Duplicate
✓ Laboratory Duplicate
✓ Sensitivity
✓ Electronic Data Deliverables Review

3.1 Overall Assessment

3.1.1 Completeness

The wet chemistry data in this data package are considered to be usable for supporting project objectives, with the following exception. The non-detect carbonate alkalinity as $CaCO_3$ result for sample WAN-WGWA-6 was R qualified as rejected due to holding time exceedance. Therefore, 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 the sample submitted for this analysis, for this data package is 99.3%.

3.1.2 Analysis Anomaly

The laboratory narrative indicated the recoveries of anions in the CCVs in batch 825136 and 825238 were low and outside of the laboratory specified acceptance criteria. Therefore, the anions concentrations in the associated samples were J- qualified as estimated with a low bias, and the non-detect anions results in the associated samples were UJ qualified as estimated less than the MDL. Additionally, the estimated anions concentrations in the associated samples were J qualified as estimated.

The laboratory narrative indicated sample WAN-WGWA-6 was reanalyzed for alkalinity at the client's request. Both sets of results were reported in the EDD. The reanalysis results of carbonate alkalinity as $CaCO_3$, bicarbonate alkalinity as $CaCO_3$ and total alkalinity as $CaCO_3$ were considered for validation, and the marked as "Yes" in the Reportable column in the EDD.

Sample	**Analyte**	**Laboratory Result (mg/L)**	**Laboratory Flag**	**Validation Result (mg/L)**	**Validation Qualifier**	**Reason Code**
WAN-WGWA-1	Chloride	3.5	NA	3.5	J-	CC2
WAN-WGWA-18	Chloride	1.7	NA	1.7	J-	CC2
WAN-WGWC-12	Chloride	2.8	NA	2.8	J-	CC2
WAN-WGWC-9	Chloride	3.2	NA	3.2	J-	CC2
WAN-WGWC-28D	Chloride	520	NA	520	J-	CC2
WAN-WGWC-24	Chloride	22	NA	22	J-	CC2
WAN-AP1-EB-01	Chloride	0.2	U	0.2	UJ	CC2
WAN-WGWC-22	Chloride	4.1	NA	4.1	J-	CC2
WAN-WGWA-2	Chloride	2.4	NA	2.4	J-	CC2
WAN-WGWA-3	Chloride	1.5	NA	1.5	J-	CC2
WAN-WGWA-4	Chloride	1.1	NA	1.1	J-	CC2
WAN-WGWA-6	Chloride	1.4	NA	1.4	J-	CC2
WAN-WGWC-20	Chloride	230	NA	230	J-	CC2
WAN-WGWC-8	Chloride	88	NA	88	J-	CC2
WAN-WGWA-7	Chloride	1.6	NA	1.6	J-	CC2
WAN-AP1-FB-07	Chloride	0.2	U	0.2	UJ	CC2
WAN-WGWA-1	Fluoride	0.04	U	0.04	UJ	CC2
WAN-AP1-FD-01	Fluoride	0.2	U	0.2	UJ	CC2
WAN-WGWC-9	Fluoride	0.73	NA	0.73	J-	CC2
WAN-WGWC-28D	Fluoride	2	U	2	UJ	CC2
WAN-AP1-EB-01	Fluoride	0.04	U	0.04	UJ	CC2
WAN-WGWC-24	Fluoride	0.2	U	0.2	UJ	CC2
WAN-WGWC-22	Fluoride	0.23	NA	0.23	J-	CC2
WAN-WGWA-2	Fluoride	0.04	U	0.04	UJ	CC2
WAN-WGWA-3	Fluoride	0.04	U	0.04	UJ	CC2
WAN-WGWC-20	Fluoride	1	U	1	UJ	CC2
WAN-WGWC-8	Fluoride	0.4	U	0.4	UJ	CC2
WAN-AP1-FB-07	Fluoride	0.04	U	0.04	UJ	CC2
WAN-WGWA-7	Fluoride	0.04	U	0.04	UJ	CC2
WAN-WGWA-1	Sulfate	0.4	U*-	0.4	UJ	CC2
WAN-WGWA-18	Sulfate	5.1	*-	5.1	J-	CC2
WAN-WGWC-9	Sulfate	37	*-	37	J-	CC2
WAN-WGWC-28D	Sulfate	300	*-	300	J-	CC2
WAN-AP1-EB-01	Sulfate	0.4	U*-	0.4	UJ	CC2
WAN-WGWC-24	Sulfate	55	*-	55	J-	CC2
WAN-AP1-FD-01	Sulfate	9	*-	9	J-	CC2
WAN-WGWC-12	Sulfate	8.8	*-	8.8	J-	CC2
WAN-WGWC-22	Sulfate	64	*-	64	J-	CC2
WAN-WGWA-4	Sulfate	6.2	*-	6.2	J-	CC2

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-WGWA-6	Sulfate	6.7	*-	6.7	J-	CC2
WAN-WGWC-20	Sulfate	280	*-	280	J-	CC2
WAN-WGWC-8	Sulfate	190	*-	190	J-	CC2
WAN-AP1-FB-07	Sulfate	0.4	U*-	0.4	UJ	CC2
WAN-WGWA-18	Fluoride	0.076	J	0.076	J	CC2
WAN-AP1-FD-01	Chloride	2.6	J	2.6	J	CC2
WAN-WGWC-12	Fluoride	0.044	J	0.044	J	CC2
WAN-WGWA-2	Sulfate	0.64	J*-	0.64	J	CC2
WAN-WGWA-3	Sulfate	0.68	J*-	0.68	J	CC2
WAN-WGWA-4	Fluoride	0.087	J	0.087	J	CC2
WAN-WGWA-6	Fluoride	0.07	J	0.07	J	CC2
WAN-WGWA-7	Sulfate	0.56	J*-F1	0.56	J	CC2

mg/L-milligrams per liter
J-estimated concentration greater than or equal to the MDL and less than the RL
U-not detected at a concentration greater than or equal to the MDL
NA-not applicable
(*-)-LCS and/or laboratory control sample duplicate (LCSD) is outside acceptance limits, low biased.
F1-laboratory flag indicating MS and/or MSD recovery exceeds control limits

3.2 Holding Times

The holding times for the wet chemistry parameters are listed below.

Analyte	Method	Holding Time
Anions	US EPA Method 300	28 days from collection to analysis
Alkalinity	SM 2320B	14 days from collection to analysis
TDS	SM 2540C	7 days from collection to analysis
Sulfide	SM 4500-S2D	28 days from collection to analysis

The holding times were met for the sample analyses, with the following exceptions. Sample WAN-WGWA-6 was analyzed for alkalinity outside of the holding time requirement. Therefore, the concentrations of total alkalinity and bicarbonate alkalinity as $CaCO_3$ in sample WAN-WGWA-6 were J- qualified as estimated with low biases and the non-detect carbonate alkalinity as $CaCO_3$ was R qualified as rejected.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-WGWA-6	Bicarbonate Alkalinity as $CaCO_3$	78	H	78	J-	HT4
WAN-WGWA-6	Alkalinity Total as $CaCO_3$	78	H	78	J-	HT4

Sample	**Analyte**	**Laboratory Result (mg/L)**	**Laboratory Flag**	**Validation Result (mg/L)**	**Validation Qualifier**	**Reason Code**
WAN-WGWA-6	Carbonate Alkalinity as $CaCO_3$	5.0	U H	5.0	R	HT4

mg/L-milligrams per liter
U-not detected at a concentration greater than or equal to the MDL
H-laboratory flag indicating 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). The wet chemistry parameters were not detected in the method blanks at or above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs 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 for anions using sample WAN-WGWA-7. The RPD results were within the laboratory specified acceptance criteria. The recoveries of sulfate in the MS/MSD pair in using sample WAN-WGWA-7 were low and outside of the laboratory specified criteria. Therefore, the estimated sulfate concentration in sample WAN-WGWA-7 was J qualified as estimated.

One sample set specific MS/MSD pair was reported for sulfide using sample WAN-WGWA-3. The RPD results were within the laboratory specified acceptance criteria. The recoveries of sulfide in the MS/MSD pair in using sample WAN-WGWA-3 were low and outside of the laboratory specified criteria. Therefore, the sulfide concentration in sample WAN-WGWA-3 was J- qualified as estimated with a low bias.

Two batch MS/MSD pairs were reported for anions. Two batch MS/MSD pairs were reported for sulfide. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

Sample	**Analyte**	**Laboratory Result (mg/L)**	**Laboratory Flag**	**Validation Result (mg/L)**	**Validation Qualifier**	**Reason Code**
WAN-WGWA-3	Sulfide	0.81	F1	0.81	J-	4/MS1

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-WGWA-7	Sulfate	0.56	J*-F1	0.56	J	4/MS1

mg/L-milligrams per liter
J-estimated concentration greater than or equal to the MDL and less than the RL
*- laboratory flag indicating LCS and/or LCSD is outside acceptance limits, low biased
F1-laboratory flag indicating 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). The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of sulfate in the LCS/LCSD pair in batches 825136 and 825238 were low and outside of the laboratory specified criteria. Therefore, the sulfate concentrations in the associated samples were J- qualified as estimated with a low bias, and the non-detect sulfate results in the associated samples were UJ qualified as estimated less than the MDL. Additionally, the estimated sulfate concentrations in the associated samples were J qualified as estimated.

Sample	Analyte	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier	Reason Code
WAN-WGWA-2	Sulfate	0.64	J*-	0.64	J	5/LS1
WAN-WGWA-1	Sulfate	0.40	U*-	0.40	UJ	5/LS1
WAN-WGWA-18	Sulfate	5.1	*-	5.1	J-	5/LS1
WAN-WGWA-3	Sulfate	0.68	J*-	0.68	J	5/LS1
WAN-WGWC-9	Sulfate	37	*-	37	J-	5/LS1
WAN-WGWC-28D	Sulfate	300	*-	300	J-	5/LS1
WAN-AP1-EB-01	Sulfate	0.40	U*-	0.40	UJ	5/LS1
WAN-WGWC-24	Sulfate	55	*-	55	J-	5/LS1
WAN-AP1-FD-01	Sulfate	9	*-	9	J-	5/LS1
WAN-WGWC-12	Sulfate	8.8	*-	8.8	J-	5/LS1
WAN-WGWC-22	Sulfate	64	*-	64	J-	5/LS1
WAN-WGWA-4	Sulfate	6.2	*-	6.2	J-	5/LS1
WAN-WGWA-6	Sulfate	6.7	*-	6.7	J-	5/LS1
WAN-WGWC-20	Sulfate	280	*-	280	J-	5/LS1
WAN-WGWC-8	Sulfate	190	*-	190	J-	5/LS1
WAN-AP1-FB-07	Sulfate	0.40	U*-	0.40	UJ	5/LS1

Sample	**Analyte**	**Laboratory Result (µg/L)**	**Laboratory Flag**	**Validation Result (µg/L)**	**Validation Qualifier**	**Reason Code**
WAN-WGWA-7	Sulfate	0.56	J*-F1	0.56	J	5/LS1

mg/L-milligrams per liter
U-not detected at a concentration greater than or equal to the MDL
J-estimated concentration greater than or equal to the MDL and less than the RL
*- laboratory flag indicating LCS and/or LCSD is outside acceptance limits, low biased
F1-laboratory flag indicating MS and/or MSD recovery exceeds control limits

3.6 Equipment Blank

One equipment blank, WAN-AP1-EB-01, was collected with the sample set. Wet chemistry parameters were not detected in the equipment blank at or above the MDLs.

Furthermore, two additional equipment blanks, WAN-AP1-EB-02 and WAN-AP1-EB-03, were collected with the sample set and reported in laboratory report 680-246872-1. Wet chemistry parameters were not detected in the equipment blanks at or above the MDLs, with the following exceptions.

Chloride was detected in the equipment blank WAN-AP1-EB-02 at an estimated concentration greater than the MDL and less than the RL. Therefore, based on professional and technical judgment, the chloride concentrations in the associated samples that were less than ten times the blank contamination were J+ qualified as estimated with a high bias.

Sulfide (1.2 mg/L) was detected in the equipment blank WAN-AP1-EB-03 at a concentration greater than the RL. Therefore, based on professional and technical judgment, the sulfide concentrations in the associated samples WAN-WGWA-3 and WAN-WGWA-6 were U qualified as not detected at the sample results, and the sulfide concentration in the associated sample that was less than ten times the blank contamination was J+ qualified as estimated with a high bias.

Sample	**Analyte**	**Laboratory Result (mg/L)**	**Laboratory Flag**	**Validation Result (mg/L)**	**Validation Qualifier**	**Reason Code**
WAN-WGWA-18	Chloride	1.7	NA	1.7	J+	3/BEH
WAN-WGWC-12	Chloride	2.8	NA	2.8	J+	3/BEH
WAN-WGWC-9	Chloride	3.2	NA	3.2	J+	3/BEH
WAN-WGWA-2	Chloride	2.4	NA	2.4	J+	3/BEH
WAN-WGWA-3	Chloride	1.5	NA	1.5	J+	3/BEH
WAN-WGWA-4	Chloride	1.1	NA	1.1	J+	3/BEH
WAN-WGWA-6	Chloride	1.4	NA	1.4	J+	3/BEH
WAN-WGWA-7	Chloride	1.6	NA	1.6	J+	3/BEH
WAN-WGWA-3	Sulfide	0.81	F1	0.81	U	3/BEL

Sample	**Analyte**	**Laboratory Result (mg/L)**	**Laboratory Flag**	**Validation Result (mg/L)**	**Validation Qualifier**	**Reason Code**
WAN-WGWA-6	Sulfide	0.93	NA	0.93	U	3/BEL
WAN-WGWA-7	Sulfide	1.7	NA	1.7	J+	3/BEH

mg/L-milligrams per liter
NA-not applicable
F1-laboratory flag indicating MS and/or MSD recovery exceeds control limits

3.7 Field Blank

One field blank, WAN-AP1-FB-07, was collected with the sample set. Wet chemistry parameters were not detected in the field blank at or above the MDLs.

3.8 Field Duplicate

One field duplicate sample, WAN-AP1-FD-01, was collected with the sample set. Acceptable precision (RPD <30%) was demonstrated between the field duplicate and the original sample, WAN-WGWC-12, with the following exception.

Fluoride was detected in the parent sample WAN-WGWC-12 at an estimated concentration greater than the MDL and less than the RL and not detected in the field duplicate sample WAN-AP1-FD-01, resulting in a noncalculable RPD result. Since the estimated fluoride concentration in sample WAN-WGWC-12 was less than the fluoride MDL in sample WAN-AP1-FD-01 and based on professional and technical judgment, no qualifications were applied to the data.

3.9 Laboratory Duplicate

Two sample set specific laboratory duplicates were reported for alkalinity using samples WAN-WGWC-20 and WAN-AP1-FD-01. The RPD results were within the laboratory specified acceptance criteria.

Three sample set specific laboratory duplicates were reported for TDS using samples WAN-WGWC-20, WAN-WGWC-24 and WAN-WGWC-22. The RPD results were within the laboratory specified acceptance criteria, with the following exception. The RPD for TDS in the laboratory duplicate using sample WAN-WGWC-22 was high and outside of the laboratory specified acceptance criteria. Since the TDS concentration in the laboratory duplicate was less than five times the RL and based on professional and technical judgment, no qualifications were applied to the data.

One sample set specific laboratory duplicate was reported for sulfide using sample WAN-WGWA-2. The RPD result was noncalculable due to a non-detect sulfide result in the sample result and a sulfide concentration in the laboratory duplicate result. Since the sulfide concentration was less

than five times the RL and based on professional and technical judgment, no qualifications were applied to the data.

Two batch laboratory duplicates were reported for alkalinity. Two batch laboratory duplicates were reported for sulfide. Since this was batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to the dilutions analyzed.

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.

V Historical undefined qualifier.

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ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D

DQM Reason Code	Description
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result

DQM Reason Code	Description
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL

DQM Reason Code	Description
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration

ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

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Memorandum

Date:	3 July 2024
To:	Adria Reimer
From:	Matthew Richardson
CC:	Kristoffer Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverable – Eurofins Laboratory Job ID 680-246862-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of fourteen aqueous samples, one field duplicate sample, one equipment blank and one field blank, collected 13-14 February 2024, as part of the Plant Wansley Ash Pond on-site sampling event.

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. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

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
680-246862-1	WAN-WGWA-1
680-246862-2	WAN-WGWA-2
680-246862-3	WAN-WGWA-3
680-246862-4	WAN-WGWA-4
680-246862-5	WAN-WGWA-6
680-246862-6	WAN-WGWC-20
680-246862-7	WAN-WGWC-8
680-246862-8	WAN-AP1-FB-07
680-246862-9	WAN-WGWA-7

Laboratory ID	Client ID
680-246862-10	WAN-WGWA-18
680-246862-11	WAN-AP1-FD-01
680-246862-12	WAN-WGWC-9
680-246862-13	WAN-WGWC-28D
680-246862-14	WAN-AP1-EB-01
680-246862-15	WAN-WGWC-24
680-246862-16	WAN-WGWC-12
680-246862-17	WAN-WGWC-22

The non-radiochemistry data were reported in laboratory report 680-246862-1.

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
✓ Laboratory Duplicate
⊗ Tracers and Carriers
✓ Equipment Blank
✓ Field Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

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%.

1.1.2 Analysis Anomaly

The radium-226 result in sample WAN-AP1-FB-07 was more negative than the total propagated uncertainty (TPU). Therefore, based on professional and technical judgment, the radium-226 and combined radium 226 + 228 results in sample WAN-AP1-FB-07 were UJ qualified as estimated as estimated less than the sample results.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
WAN-WGWC-21	Radium-226	-0.0360	U	-0.0360	UJ	13
WAN-WGWC-22	Combined Radium 226 + 228	0.0151	U	0.0151	UJ	13

pCi/L-picocuries per liter
U-not detected at a concentration greater than the minimum detectable concentration (MDC)
* 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

1.2 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-226 data (batch 649210). One method blank was reported for the radium-228 data (batch 649241). Radium-226 and radium-228 were not detected in the method blanks above the MDCs.

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 for radium-226 and one LCS was reported for radium-228. The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Sample set specific laboratory duplicates were reported for radium-226 and radium-228 using sample WAN-WGWA-1. The replicate error ratio (RER) results were within the laboratory specified acceptance criteria.

1.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria, with the following exception.

The recovery of the barium carrier in sample WAN-WGWC-20 was high and outside of the laboratory specified acceptance criteria. Therefore, the concentrations of radium-226, radium-228 and combined radium-226 and radium-228 in sample WAN-WGWC-20 were J qualified as estimated.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
WAN-WGWC-21	Radium-226	0.141	NA	0.141	J	3
WAN-WGWC-21	Radium-228	0.921	NA	0.921	J	3
WAN-WGWC-22	Combined Radium 226 + 228	1.06	NA	1.06	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

1.8 Equipment Blank

One equipment blank, WAN-AP1-EB-01, was collected with the sample set. Radium-226 and Radium-228 were not detected in the equipment blank above the MDCs.

1.9 Field Blank

One field blank, WAN-AP1-FB-07, was collected with the sample set. Radium-226 and Radium-228 were not detected in the field blank above the MDCs.

1.10 Field Duplicate

One field duplicate sample, WAN-AP1-FD-01, was collected with the sample set. Acceptable precision (RER (2σ) < 3) was demonstrated between the field duplicate and the original sample, WAN-WGWC-12.

1.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

1.12 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.

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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.

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ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D

DQM Reason Code	Description
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result

DQM Reason Code	Description
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL

DQM Reason Code	Description
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration

ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

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Memorandum

Date:	3 July 2024
To:	Courtney Collins
From:	Matthew Richardson
CC:	Kristoffer Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverable – Eurofins Laboratory Job ID 680-246872-1**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of fourteen water samples, two field duplicates, two equipment blanks and two field blanks, collected 15-16 February 2024, as part of the Plant Wansley Ash Pond on-site sampling event. The samples were analyzed at Eurofins Savannah, Georgia, for the following analytical tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Mercury by USEPA Method 7470A
- Alkalinity by Standard Method (SM) 2320B
- Sulfide by SM 4500-S2 F-2011
- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0
- Total Dissolved Solids (TDS) by 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 are usable for supporting project objectives.

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 sample was analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
680-246872-1	WAN-WGWC-10
680-246872-2	WAN-WGWC-11
680-246872-3	WAN-WGWC-13
680-246872-4	WAN-WGWC-14A
680-246872-5	WAN-WGWC-15
680-246872-6	WAN-WGWC-16
680-246872-7	WAN-WGWC-17
680-246872-8	WAN-WGWC-19
680-246872-9	WAN-WGWC-21
680-246872-10	WAN-WGWC-23
680-246872-11	WAN-WGWC-25
680-246872-12	WAN-WGWC-27
680-246872-13	WAN-PZ-26D
680-246872-14	WAN-AP1-FD-02
680-246872-15	WAN-AP1-FD-03
680-246872-16	WAN-AP1-FB-08
680-246872-17	WAN-AP1-FB-09
680-246872-18	WAN-AP1-EB-02
680-246872-19	WAN-AP1-EB-03
680-246872-20	WAN-WGWA-5
Laboratory IDs	**Client IDs**

Laboratory IDs	Client IDs
680-246872-1	WAN-WGWC-10
680-246872-2	WAN-WGWC-11
680-246872-3	WAN-WGWC-13
680-246872-4	WAN-WGWC-14A
680-246872-5	WAN-WGWC-15
680-246872-6	WAN-WGWC-16
680-246872-7	WAN-WGWC-17
680-246872-8	WAN-WGWC-19
680-246872-9	WAN-WGWC-21
680-246872-10	WAN-WGWC-23
680-246872-11	WAN-WGWC-25
680-246872-12	WAN-WGWC-27
680-246872-13	WAN-PZ-26D
680-246872-14	WAN-AP1-FD-02
680-246872-15	WAN-AP1-FD-03
680-246872-16	WAN-AP1-FB-08
680-246872-17	WAN-AP1-FB-09
680-246872-18	WAN-AP1-EB-02
680-246872-19	WAN-AP1-EB-03
680-246872-20	WAN-WGWA-5

The laboratory reported results for the analytical method(s) requested for each sample on the chain of custody (COC).

The sample was received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

1.0 METALS

The sample was 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
- ✓ Field Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Sensitivity

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 time was 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). Metals were not detected in the method blanks at or above the method detection limits (MDLs), with the following exception.

Barium was detected in the method blank in batch 823462 at an estimated concentration greater than the MDL and less than the reporting limit (RL). Therefore, the estimated barium concentrations in the associated samples were U qualified as not detected at the RL.

Sample	**Analyte**	**Laboratory Result (mg/L)**	**Laboratory Flag**	**Validation Result (mg/L)**	**Validation Qualifier***	**Reason Code****
WAN-AP1-FD-02	Barium	0.004	JB	0.010	U	3/BL1
WAN-WGWC-19	Barium	0.0012	JB	0.010	U	3/BL1
WAN-WGWC-21	Barium	0.0064	JB	0.010	U	3/BL1
WAN-WGWC-23	Barium	0.005	JB	0.010	U	3/BL1

Sample	**Analyte**	**Laboratory Result (mg/L)**	**Laboratory Flag**	**Validation Result (mg/L)**	**Validation Qualifier***	**Reason Code****
WAN-WGWC-27	Barium	0.004	JB	0.010	U	3/BL1

mg/L-milligrams per liter
J-estimated concentration greater than or equal to the MDL and less than the RL
B-laboratory flag indicating compound was found in the 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/MSDs 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 WAN-WGWC-15. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of manganese in the MS/MSD pair using sample WAN-WGWC-15 were low, less than 35% and outside of the laboratory specified acceptance criteria. Therefore, the manganese concentration in sample WAN-WGWC-15 was J- qualified as estimated with a low bias

The MSD recovery of calcium in the MS/MSD pair using sample WAN-WGWC-15 was low and outside of the laboratory specified acceptance criteria. Since the concentration of calcium in sample WAN-WGWC-15 was greater than four times the spiked concentration, no qualifications were applied to the data.

One batch MS/MSD pair was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

Sample	**Analyte**	**Laboratory Result (mg/L)**	**Laboratory Flag**	**Validation Result (mg/L)**	**Validation Qualifier***	**Reason Code****
WAN-WGWC-15	Manganese	0.54	F1	0.54	J-	4/MS1

mg/L-milligrams per liter
F1-laboratory flag indicating MS and/or MSD recovery exceeds control limits
* 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

1.5 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). The recovery results were within the laboratory specified acceptance criteria.

1.6 Field Duplicate

Two field duplicate samples, WAN-AP1-FD-02 and WAN-AP1-FD-03, were collected with the sample set. Acceptable precision (RPD ≤30%) was demonstrated between the field duplicates and the original samples, WAN-WGWC-27 and WAN-WGWC-11, respectively.

1.7 Equipment Blank

Two equipment blanks, WAN-AP1-EB-02 and WAN-AP1-EB-03, were collected with the sample set. Metals were not detected in the equipment blanks at or above the MDLs, with the following exception.

Potassium was detected in the equipment blank WAN-AP1-EB-03 at an estimated concentration greater than the MDL and less than the RL. Since potassium was detected in the associated samples at concentrations greater than ten times the blank contamination and based on professional and technical judgment, no qualifications were applied to the data.

Furthermore, an additional equipment blank, WAN-AP1-EB-01, was collected with the sample set and reported in laboratory report 680-246862-1. Metals were not detected in the equipment blank at or above the MDLs, with the following exceptions.

Arsenic and boron were detected in the equipment blank at estimated concentrations greater than the MDLs and less than the RLs. Since arsenic and boron were not detected in the associated samples, no qualifications were applied to the data.

1.8 Field Blank

Two field blanks, WAN-AP1-FB-08 and WAN-AP1-FB-09, were collected with the sample set. Metals were not detected in the field blank at or above the MDLs.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

2.0 MERCURY

The sample was analyzed for mercury per 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 Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Field Duplicate
- ✓ Field Blank
- ✓ Equipment Blank
- ✓ Sensitivity

2.1 Overall Assessment

The mercury data reported in this SDG are considered to be 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 the sample submitted for this analysis, for this SDG is 100%.

2.2 Holding Times

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding time was 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). Mercury was not detected in the method blanks at or 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 WAN-WGWC-14A. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exception.

The RPD for mercury in the MS/MSD pair using sample WAN-WGWC-14A was high and outside of the laboratory specified acceptance criteria. Since mercury was not detected in sample WAN-WGWC-14A, no qualifications were applied to the data.

One batch MS/MSD pair was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data

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). The recovery results were within the laboratory specified acceptance criteria.

2.6 Field Duplicate

Two field duplicate samples, WAN-AP1-FD-02 and WAN-AP1-FD-03, were collected with the sample set. Acceptable precision (RPD $\leq$30%) was demonstrated between the field duplicates and the original samples, WAN-WGWC-27 and WAN-WGWC-11, respectively.

2.7 Field Blank

Two field blanks, WAN-AP1-FB-08 and WAN-AP1-FB-09, were collected with the sample set. Mercury was not detected in the field blank at or above the MDL.

2.8 Equipment Blank

Two equipment blanks, WAN-AP1-EB-02 and WAN-AP1-EB-03, were collected with the sample set. Mercury was not detected in the equipment blanks at or above the MDL.

Furthermore, an additional equipment blank, WAN-AP1-EB-01, was collected with the sample set and reported in laboratory report 680-246862-1. Mercury was not detected in the equipment blanks at or above the MDL.

2.9 Sensitivity

The sample was reported to the MDLs. Elevated non-detect results were not reported. The MDLs met the reference limits listed in QAPP Worksheet #15 of the QAPP.

3.0 WET CHEMISTRY

The sample was analyzed for anions by US EPA method 300.0, sulfide by SM 4500 S2 F-2011, alkalinity by SM 2320B-2011 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
⊗ Field Duplicate
⊗ Equipment Blank
✓ Field Blank
✓ Laboratory Duplicate
✓ Sensitivity

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 times for the wet chemistry parameters are listed below.

Analyte	Method	Holding Time
Anions	US EPA Method 300	28 days from collection to analysis
Alkalinity	SM 2320B	14 days from collection to analysis
TDS	SM 2540C	7 days from collection to analysis
Sulfide	SM 4500-S2D	28 days from 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). The wet chemistry parameters were not detected in the method blanks at or above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs 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 for anions using sample WAN-WGWC-17 and WAN-AP1-FB-08. The recovery and RPD results were within the laboratory specified acceptance criteria.

One sample set specific MS/MSD pair was reported for sulfide using sample WAN-AP1-FD-03. The recovery and RPD results were within the laboratory specified acceptance criteria.

One batch MS/MSD pair was also reported for sulfide. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

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). The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Field Duplicate

Two field duplicate samples, WAN-AP1-FD-02 and WAN-AP1-FD-03, were collected with the sample set. Acceptable precision (RPD ≤30%) was demonstrated between the field duplicates and the original samples, WAN-WGWC-27 and WAN-WGWC-11, respectively, with the following exceptions.

Sulfide was detected in WAN-WGWC-27 at a concentration greater than the RL and was not detected in WAN-AP1-FD-02, resulting in a noncalculable RPD. Therefore, based on professional and technical judgment, the non-detect sulfide result for WAN-AP1-FD-02 was UJ qualified as estimated not detected at the MDL and the sulfide concentration for WAN-WGWC-27 was J qualified as estimated.

Sulfide was detected in WAN-AP1-FD-03 at a concentration greater than the RL and was not detected in WAN-WGWC-11, resulting in a noncalculable RPD. Therefore, based on professional and technical judgment, the non-detect sulfide result for WAN-WGWC-11 was UJ qualified as estimated not detected at the MDL and the sulfide concentration for WAN-AP1-FD-03 was J qualified as estimated.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flage	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
WAN-AP1-FD-02	Sulfide	0.86	U	NC	0.86	UJ	RPDF2
WAN-WGWC-27	Sulfide	1.2	NA		1.2	J	RPDF2
WAN-AP1-FD-03	Sulfide	1.8	NA	NC	1.8	J	RPDF2
WAN-WGWC-11	Sulfide	0.89	U		0.89	UJ	RPDF2

mg/L-milligrams per liter
U-not detected at or above the MDL
NA-not applicable

3.7 Equipment Blank

Two equipment blanks, WAN-AP1-EB-02 and WAN-AP1-EB-03, were collected with the sample set. Wet chemistry parameters were not detected in the equipment blanks at or above the MDLs, with the following exceptions.

Chloride was detected in the equipment blank WAN-AP1-EB-02 at an estimated concentration greater than the MDL and less than the RL. Therefore, based on professional and technical judgment, the chloride concentrations in the associated samples that were less than ten times the blank contamination were J+ qualified as estimated with a high bias.

Sulfide (1.2 mg/L) was detected in the equipment blank WAN-AP1-EB-03 at a concentration greater than the RL. Therefore, based on professional and technical judgment, the sulfide concentration in the associated sample WAN-WGWC-21 was U qualified as not detected at the sample result, and the sulfide concentrations in the associated samples that were greater than the equipment blank concentration and less than ten times the blank contamination were J+ qualified as estimated with a high bias.

Furthermore, an additional equipment blank, WAN-AP1-EB-01, was collected with the sample set and reported in laboratory report 680-246862-1. Wet chemistry parameters were not detected in the equipment blank at or above the MDLs.

Sample	**Analyte**	**Laboratory Result (mg/L)**	**Laboratory Flag**	**Validation Result (mg/L)**	**Validation Qualifier***	**Reason Code****
WAN-WGWC-10	Chloride	1.8	NA	1.8	J+	BEL
WAN-WGWA-5	Chloride	1.6	NA	1.6	J+	BEL
WAN-WGWC-13	Chloride	1.3	NA	1.3	J+	BEL
WAN-WGWC-14A	Chloride	2.5	NA	2.5	J+	BEL
WAN-WGWC-15	Chloride	1.4	NA	1.4	J+	BEL
WAN-WGWC-17	Chloride	1.6	NA	1.6	J+	BEL
WAN-WGWC-27	Sulfide	1.2	NA	1.2	J+	BEH
WAN-AP1-FD-03	Sulfide	1.8	NA	1.8	J+	BEH
WAN-WGWC-21	Sulfide	0.99	NA	0.99	U	BEH

mg/L-milligrams per liter
J-estimated concentration greater than or equal to the MDL and less than the RL
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

3.8 Field Blank

Two field blanks, WAN-AP1-FB-08 and WAN-AP1-FB-09, were collected with the sample set. Wet chemistry parameters were not detected in the field blank at or above the MDLs, with the following exception.

Chloride was detected in the field blank WAN-AP1-FB-09 at an estimated concentration greater than the MDL and less than the RL. Since chloride was also detected in the equipment blank at a greater estimated concentration and based on professional and technical judgment, no additional qualifications were applied to the data.

3.9 Laboratory Duplicate

Two sample set specific laboratory duplicates were reported for alkalinity using samples WAN-WGWC-11 and WAN-AP1-EB-02. The RPD results were within the laboratory specified acceptance criteria.

Two sample set specific laboratory duplicates were reported for TDS using samples WAN-WGWC-21 and WAN-PZ-26D. The RPD results were within the laboratory specified acceptance criteria, with the following exception. The RPD for TDS in sample WAN-PZ-26D was high and outside of the laboratory specified acceptance concentration. Since the TDS concentration in sample WAN-PZ-26D was less than five times the RL and based on professional and technical judgment, no qualifications were applied to the data.

One sample set specific laboratory duplicate was reported for sulfide using sample WAN-AP1-FD-02. The RPD result was within the laboratory specified acceptance criteria

Batch laboratory duplicates were reported for sulfide, alkalinity and TDS. Since this was batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to the dilutions analyzed.

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.

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ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range

DQM Reason Code	Description
CV1	ICV or CCV %D
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike

DQM Reason Code	Description
MS4	Spike diluted out
NP1	Non-Preferred Result
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2

DQM Reason Code	Description
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration
ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

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Memorandum

Date:	3 July 2024
To:	Adria Reimer
From:	Matthew Richardson
CC:	Kristoffer Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverable – Eurofins Laboratory Job ID 680-246872-2**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of fourteen aqueous samples, two field duplicate samples, two equipment blanks and two field blanks, collected 15-16 February 2024, as part of the Plant Wansley Ash Pond on-site sampling event.

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. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

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
680-246872-1	WAN-WGWC-10
680-246872-2	WAN-WGWC-11
680-246872-3	WAN-WGWC-13
680-246872-4	WAN-WGWC-14A
680-246872-5	WAN-WGWC-15
680-246872-6	WAN-WGWC-16
680-246872-7	WAN-WGWC-17
680-246872-8	WAN-WGWC-19
680-246872-9	WAN-WGWC-21
680-246872-10	WAN-WGWC-23

Laboratory ID	Client ID
680-246872-11	WAN-WGWC-25
680-246872-12	WAN-WGWC-27
680-246872-13	WAN-PZ-26D
680-246872-14	WAN-AP1-FD-02
680-246872-15	WAN-AP1-FD-03
680-246872-16	WAN-AP1-FB-08
680-246872-17	WAN-AP1-FB-09
680-246872-18	WAN-AP1-EB-02
680-246872-19	WAN-AP1-EB-03
680-246872-20	WAN-WGWA-5

The non-radiochemistry data were reported in laboratory report 680-239236-1.

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
✓ Laboratory Duplicate
✓ Tracers and Carriers
✓ Equipment Blank
✓ Field Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverables Review

1.1 Overall Assessment

1.1.1 Completeness

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%.

1.1.2 Analysis Anomaly

The radium-226 result in sample WAN-WGWC-11 was more negative than the total propagated uncertainty (TPU). Therefore, based on professional and technical judgment, the radium-226 and combined radium 226 + 228 results in sample WAN-WGWC-11 were UJ qualified as estimated as estimated less than the sample results.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
WAN-WGWC-11	Radium-226	-0.130	U	-0.130	UJ	13
WAN-WGWC-11	Combined Radium 226 + 228	-0.00801	U	-0.00801	UJ	13

pCi/L-picocuries per liter
U-not detected at a concentration greater than the minimum detectable concentration (MDC)
* 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

1.2 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-226 data (batch 649203). One method blank was reported for the radium-228 data (batch 649206). Radium-226 and radium-228 were not detected in the method blanks above the MDCs.

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 for radium-226, and one LCS was reported for radium-228. The recovery results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Sample set specific laboratory duplicates were reported for radium-226 and radium-228 using sample WAN-WGWC-10. The replicate error ratio (RER) results were within the laboratory specified acceptance criteria, with the following exception.

The RER for radium-226 in the laboratory duplicate using sample WAN-WGWC-10 was high and outside of the laboratory specified acceptance criteria. Since the sample and laboratory duplicate results were less than the MDC and based on professional and technical judgment, no qualifications were applied to the data.

1.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Equipment Blank

Two equipment blanks, WAN-AP1-EB-02 and WAN-AP1-EB-03, were collected with the sample set. Radium-226 and Radium-228 were not detected in the equipment blanks above the MDCs.

1.9 Field Blank

Two field blanks, WAN-AP1-FB-08 and WAN-AP1-FB-09, were collected with the sample set. Radium-226 and Radium-228 were not detected in the field blanks above the MDCs.

1.10 Field Duplicate

Two field duplicate samples, WAN-AP1-FD-02 and WAN-AP1-FD-03, were collected with the sample set. Acceptable precision (RER (2σ) < 3) was demonstrated between the field duplicates and the original samples, WAN-WGWC-27 and WAN-WGWC-11, respectively.

1.11 Sensitivity

The samples were reported to the MDCs. Elevated non-detect results were not reported.

1.12 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.

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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.

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ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D

DQM Reason Code	Description
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result

DQM Reason Code	Description
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL

DQM Reason Code	Description
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration

ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

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Memorandum

Date:	3 July 2024
To:	Courtney Collins
From:	Ashley Wilson
CC:	Kristoffer Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverable – Eurofins Laboratory Job ID 680-246882-1**

SITE: Plant Wansley Ash Pond

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of one water sample collected 16 February 2024, as part of the Plant Wansley Ash Pond on-site sampling event. The samples were analyzed at Eurofins Savannah, Georgia, for the following analytical tests:

- Dissolved Metals by United States (US) Environmental Protection Agency (EPA) Methods 3005A/6020B
- Dissolved Mercury by USEPA Method 7470A

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 are usable for supporting project objectives.

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 sample was analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
680-246882-1	WAN-WGWA-5

The laboratory reported results for the analytical method(s) requested for each sample on the chain of custody (COC).

The sample was received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

1.0 METALS

The sample was 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
- ✓ Sensitivity

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 times for the dissolved metals analysis of a water sample are 15 minutes from sample collection to filtration and 180 days from sample collection to analysis. The holding time was 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). Metals were not detected in the method blank at or above the method detection limits (MDLs), with the following exception.

Dissolved barium (0.000920 mg/L) was detected at an estimated concentration greater than the MDL and less than the reporting limit (RL). Since the concentration of dissolved barium in sample WAN-WGWA-5 was greater than ten times the blank contamination, and based on technical and professional judgement, no qualifications were applied to the data.

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

One batch MS/MSD pair was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to 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). The recovery results were within the laboratory specified acceptance criteria.

1.6 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

2.0 MERCURY

The sample was analyzed for mercury per 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 Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Sensitivity

2.1 Overall Assessment

The mercury data reported in this SDG are considered to be 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 the sample submitted for this analysis, for this SDG is 100%.

2.2 Holding Times

The holding time for the mercury analysis of a water sample are 15 minutes from sample collection to filtration and 28 days from sample collection to analysis. The holding time was 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). Mercury was not detected in the method blank at or above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

One batch MS/MSD pair was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

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). The recovery result was within the laboratory specified acceptance criteria.

2.6 Sensitivity

The sample was reported to the MDLs. Elevated non-detect results were not reported. The MDLs met the reference limits listed in QAPP Worksheet #15 of the QAPP.

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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.

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ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D

DQM Reason Code	Description
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result

DQM Reason Code	Description
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL

DQM Reason Code	Description
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration

ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Plant Wansley - Ash Pond

JOB NUMBER

680-246882-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

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

Authorization



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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-246882-1
Project/Site: Plant Wansley - Ash Pond

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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

Sample Summary

Client: Southern Company
Job ID: 680-246882-1
Project/Site: Plant Wansley - Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-246882-1	WAN-WGWA-5	Water	02/16/24 11:15	02/17/24 09:52

Job ID: 680-246882-1 — Eurofins Savannah

Job Narrative
680-246882-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The sample was received on 2/17/2024 9:52 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

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

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

Job ID: 680-246882-1

Client Sample ID: WAN-WGWA-5

Lab Sample ID: 680-246882-1

Date Collected: 02/16/24 11:15

Matrix: Water

Date Received: 02/17/24 09:52

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:47	02/20/24 17:15	1
Arsenic, Dissolved	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:47	02/20/24 17:15	1
Barium, Dissolved	**0.013**	**B**	0.010	0.00089	mg/L		02/20/24 05:47	02/20/24 17:15	1
Beryllium, Dissolved	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:47	02/20/24 17:15	1
Boron, Dissolved	<0.022		0.080	0.022	mg/L		02/20/24 05:47	02/20/24 17:15	1
Cadmium, Dissolved	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:47	02/20/24 17:15	1
Calcium, Dissolved	**0.90**		0.50	0.14	mg/L		02/20/24 05:47	02/20/24 17:15	1
Chromium, Dissolved	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:47	02/20/24 17:15	1
Cobalt, Dissolved	**0.00054**	**J**	0.0025	0.00022	mg/L		02/20/24 05:47	02/20/24 17:15	1
Lead, Dissolved	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:47	02/20/24 17:15	1
Lithium, Dissolved	<0.0020		0.0050	0.0020	mg/L		02/20/24 05:47	02/20/24 17:15	1
Molybdenum, Dissolved	<0.00086		0.015	0.00086	mg/L		02/20/24 05:47	02/20/24 17:15	1
Selenium, Dissolved	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:47	02/20/24 17:15	1
Thallium, Dissolved	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:47	02/20/24 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 16:42	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-823462/1-A
Matrix: Water
Analysis Batch: 823730

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 823462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	<0.00034		0.0020	0.00034	mg/L		02/20/24 05:47	02/20/24 16:01	1
Arsenic, Dissolved	<0.00086		0.0010	0.00086	mg/L		02/20/24 05:47	02/20/24 16:01	1
Barium, Dissolved	0.000920	J	0.010	0.00089	mg/L		02/20/24 05:47	02/20/24 16:01	1
Beryllium, Dissolved	<0.00020		0.0025	0.00020	mg/L		02/20/24 05:47	02/20/24 16:01	1
Boron, Dissolved	<0.022		0.080	0.022	mg/L		02/20/24 05:47	02/20/24 16:01	1
Cadmium, Dissolved	<0.000078		0.0025	0.000078	mg/L		02/20/24 05:47	02/20/24 16:01	1
Calcium, Dissolved	<0.14		0.50	0.14	mg/L		02/20/24 05:47	02/20/24 16:01	1
Chromium, Dissolved	<0.0012		0.0020	0.0012	mg/L		02/20/24 05:47	02/20/24 16:01	1
Cobalt, Dissolved	<0.00022		0.0025	0.00022	mg/L		02/20/24 05:47	02/20/24 16:01	1
Lead, Dissolved	<0.00021		0.0010	0.00021	mg/L		02/20/24 05:47	02/20/24 16:01	1
Lithium, Dissolved	<0.0020		0.0050	0.0020	mg/L		02/20/24 05:47	02/20/24 16:01	1
Molybdenum, Dissolved	<0.00086		0.015	0.00086	mg/L		02/20/24 05:47	02/20/24 16:01	1
Selenium, Dissolved	<0.00099		0.0050	0.00099	mg/L		02/20/24 05:47	02/20/24 16:01	1
Thallium, Dissolved	<0.00026		0.0010	0.00026	mg/L		02/20/24 05:47	02/20/24 16:01	1

Lab Sample ID: LCS 680-823462/2-A
Matrix: Water
Analysis Batch: 823730

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 823462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony, Dissolved	0.0500	0.0526		mg/L		105	80 - 120
Arsenic, Dissolved	0.100	0.102		mg/L		102	80 - 120
Barium, Dissolved	0.100	0.0928		mg/L		93	80 - 120
Beryllium, Dissolved	0.0500	0.0540		mg/L		108	80 - 120
Boron, Dissolved	0.400	0.421		mg/L		105	80 - 120
Cadmium, Dissolved	0.0500	0.0479		mg/L		96	80 - 120
Calcium, Dissolved	5.00	5.01		mg/L		100	80 - 120
Chromium, Dissolved	0.100	0.102		mg/L		102	80 - 120
Cobalt, Dissolved	0.0500	0.0529		mg/L		106	80 - 120
Lead, Dissolved	0.500	0.478		mg/L		96	80 - 120
Lithium, Dissolved	0.500	0.485		mg/L		97	80 - 120
Molybdenum, Dissolved	0.100	0.0964		mg/L		96	80 - 120
Selenium, Dissolved	0.100	0.0921		mg/L		92	80 - 120
Thallium, Dissolved	0.0500	0.0524		mg/L		105	80 - 120

Lab Sample ID: 680-246872-F-5-B MS
Matrix: Water
Analysis Batch: 823730

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 823462

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony, Dissolved	<0.00034		0.0500	0.0561		mg/L		112	75 - 125
Arsenic, Dissolved	<0.00086		0.100	0.101		mg/L		101	75 - 125
Barium, Dissolved	0.031	B	0.100	0.140		mg/L		109	75 - 125
Beryllium, Dissolved	<0.00020		0.0500	0.0504		mg/L		101	75 - 125
Boron, Dissolved	<0.022		0.400	0.442		mg/L		110	75 - 125
Cadmium, Dissolved	<0.000078		0.0500	0.0523		mg/L		105	75 - 125
Calcium, Dissolved	31		5.00	36.4	4	mg/L		106	75 - 125
Chromium, Dissolved	<0.0012		0.100	0.100		mg/L		100	75 - 125
Cobalt, Dissolved	<0.00022		0.0500	0.0513		mg/L		103	75 - 125

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

Lab Sample ID: 680-246872-F-5-B MS
Matrix: Water
Analysis Batch: 823730

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 823462

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead, Dissolved	<0.00021		0.500	0.493		mg/L		99	75 - 125
Lithium, Dissolved	0.0055		0.500	0.501		mg/L		99	75 - 125
Molybdenum, Dissolved	0.0021	J	0.100	0.100		mg/L		98	75 - 125
Selenium, Dissolved	<0.00099		0.100	0.0964		mg/L		96	75 - 125
Thallium, Dissolved	<0.00026		0.0500	0.0534		mg/L		107	75 - 125

Lab Sample ID: 680-246872-F-5-C MSD
Matrix: Water
Analysis Batch: 823730

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 823462

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony, Dissolved	<0.00034		0.0500	0.0577		mg/L		115	75 - 125	3	20
Arsenic, Dissolved	<0.00086		0.100	0.102		mg/L		102	75 - 125	1	20
Barium, Dissolved	0.031	B	0.100	0.134		mg/L		103	75 - 125	4	20
Beryllium, Dissolved	<0.00020		0.0500	0.0511		mg/L		102	75 - 125	1	20
Boron, Dissolved	<0.022		0.400	0.422		mg/L		105	75 - 125	5	20
Cadmium, Dissolved	<0.000078		0.0500	0.0539		mg/L		108	75 - 125	3	20
Calcium, Dissolved	31		5.00	34.8	4	mg/L		74	75 - 125	4	20
Chromium, Dissolved	<0.0012		0.100	0.102		mg/L		102	75 - 125	2	20
Cobalt, Dissolved	<0.00022		0.0500	0.0514		mg/L		103	75 - 125	0	20
Lead, Dissolved	<0.00021		0.500	0.498		mg/L		100	75 - 125	1	20
Lithium, Dissolved	0.0055		0.500	0.515		mg/L		102	75 - 125	3	20
Molybdenum, Dissolved	0.0021	J	0.100	0.100		mg/L		98	75 - 125	0	20
Selenium, Dissolved	<0.00099		0.100	0.0967		mg/L		97	75 - 125	0	20
Thallium, Dissolved	<0.00026		0.0500	0.0549		mg/L		110	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-823651/1-A
Matrix: Water
Analysis Batch: 823946

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 823651

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	<0.000080		0.00020	0.000080	mg/L		02/20/24 15:32	02/21/24 15:43	1

Lab Sample ID: LCS 680-823651/2-A
Matrix: Water
Analysis Batch: 823946

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 823651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury, Dissolved	0.00250	0.00279		mg/L		112	80 - 120

Lab Sample ID: 680-246872-F-4-D MS
Matrix: Water
Analysis Batch: 823946

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 823651

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury, Dissolved	<0.000080	F2	0.00100	0.00110		mg/L		110	80 - 120

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

Job ID: 680-246882-1

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

Lab Sample ID: 680-246872-F-4-E MSD
Matrix: Water
Analysis Batch: 823946

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 823651

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury, Dissolved	<0.000080	F2	0.00100	0.000894	F2	mg/L		89	80 - 120	21	20

QC Association Summary

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

Job ID: 680-246882-1

Metals

Prep Batch: 823462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246882-1	WAN-WGWA-5	Dissolved	Water	3005A	
MB 680-823462/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-823462/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-246872-F-5-B MS	Matrix Spike	Total Recoverable	Water	3005A	
680-246872-F-5-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 823651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246882-1	WAN-WGWA-5	Dissolved	Water	7470A	
MB 680-823651/1-A	Method Blank	Total/NA	Water	7470A	
LCS 680-823651/2-A	Lab Control Sample	Total/NA	Water	7470A	
680-246872-F-4-D MS	Matrix Spike	Total/NA	Water	7470A	
680-246872-F-4-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 823730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246882-1	WAN-WGWA-5	Dissolved	Water	6020B	823462
MB 680-823462/1-A	Method Blank	Total Recoverable	Water	6020B	823462
LCS 680-823462/2-A	Lab Control Sample	Total Recoverable	Water	6020B	823462
680-246872-F-5-B MS	Matrix Spike	Total Recoverable	Water	6020B	823462
680-246872-F-5-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	823462

Analysis Batch: 823946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-246882-1	WAN-WGWA-5	Dissolved	Water	7470A	823651
MB 680-823651/1-A	Method Blank	Total/NA	Water	7470A	823651
LCS 680-823651/2-A	Lab Control Sample	Total/NA	Water	7470A	823651
680-246872-F-4-D MS	Matrix Spike	Total/NA	Water	7470A	823651
680-246872-F-4-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	823651

Lab Chronicle

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

Job ID: 680-246882-1

Client Sample ID: WAN-WGWA-5
Date Collected: 02/16/24 11:15
Date Received: 02/17/24 09:52

Lab Sample ID: 680-246882-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			25 mL	125 mL	823462	02/20/24 05:47	RR	EET SAV
Dissolved	Analysis	6020B		1			823730	02/20/24 17:15	BWR	EET SAV
	Instrument ID: ICPMSD									
Dissolved	Prep	7470A			50 mL	50 mL	823651	02/20/24 15:32	DW	EET SAV
Dissolved	Analysis	7470A		1			823946	02/21/24 16:42	BJB	EET SAV
	Instrument ID: QuickTrace3									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-246882-1
Project/Site: Plant Wansley - Ash Pond

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24

Method Summary

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

Job ID: 680-246882-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET SAV
7470A	Mercury (CVAA)	SW846	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV
7470A	Preparation, Mercury	SW846	EET SAV

Protocol References:

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

Laboratory References:

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

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: ACC A. Schnittker / D. Johnson	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770-594-5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 1 of 1
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027766			
Email: SCS Contacts / Geosyntec Contacts	PO #: GPC82130-0004			
Project Name: Plant Wansley Ash Pond	Project #:			
Site:	SSOW#:			

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 - NaOH, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Task_Code: WAN-CCR-ASSMT-2024S1

Special Instructions/Note: Full APP III and APP IV

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=quality control)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Dissolved App III Metals: B, Ca	Dissolved App IV Metals (EPA 6020/7470): Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Hg,Mo,Se,Tl	Total Number of containers
			Preservation Code:				D	D	
WAN-WGWA-5	02/16/24	1115	G	WG	Y	N	X	X	1

680-246882 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		02/16/24 1500	ACC		2-16-24 15:00	
2		2-16-24 15:00				
3					2/16/24 0952	

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 3.0/2.0

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-246882-1

Login Number: 246882

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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

APPENDIX C2

Field Sampling Forms

Low-Flow Test Report:

Test Date / Time: 2/15/2024 10:20:05 AM
Project: Plant Wansley Ash Pond
Operator Name: A. Schnittker

Location Name: PZ-26D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 70.1 ft** **Total Depth: 80.11 ft** **Initial Depth to Water: 13.54 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 75 ft** **Estimated Total Volume Pumped: 5.7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 190 ml/min** **Final Draw Down: 40 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Sample time 1050. Sunny 50s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/15/2024 10:20 AM	00:00	6.51 pH	17.36 °C	145.50 µS/cm	0.38 mg/L	5.77 NTU	1.0 mV	13.54 ft	190.00 ml/min
2/15/2024 10:25 AM	05:00	6.53 pH	17.75 °C	144.89 µS/cm	0.22 mg/L	5.24 NTU	-14.0 mV	16.20 ft	190.00 ml/min
2/15/2024 10:30 AM	10:00	6.53 pH	17.76 °C	144.70 µS/cm	0.19 mg/L	4.61 NTU	-14.5 mV	16.60 ft	190.00 ml/min
2/15/2024 10:35 AM	15:00	6.53 pH	17.89 °C	144.42 µS/cm	0.17 mg/L	2.47 NTU	-18.1 mV	16.80 ft	190.00 ml/min
2/15/2024 10:40 AM	20:00	6.52 pH	18.07 °C	144.17 µS/cm	0.16 mg/L	1.84 NTU	-20.9 mV	16.80 ft	190.00 ml/min
2/15/2024 10:45 AM	25:00	6.55 pH	18.42 °C	144.23 µS/cm	0.14 mg/L	1.40 NTU	-23.1 mV	16.90 ft	190.00 ml/min
2/15/2024 10:50 AM	30:00	6.48 pH	18.38 °C	144.19 µS/cm	0.13 mg/L	1.57 NTU	-31.1 mV	16.90 ft	190.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/13/2024 11:40:11 AM
Project: Plant Wansley Ash Pond
Operator Name: J. 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: 27.77 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Tubing Length: 129 ft** **Pump Intake From TOC: 124 ft** **Estimated Total Volume Pumped: 9.2 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 3 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080306**

Test Notes:
Sunny, sample time-1215

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/13/2024 11:40 AM	00:00	6.99 pH	12.98 °C	0.00 µS/cm	10.26 mg/L	1.49 NTU	68.5 mV	27.77 ft	275.00 ml/min
2/13/2024 11:45 AM	05:00	5.52 pH	16.37 °C	27.35 µS/cm	0.75 mg/L	2.93 NTU	82.8 mV	27.90 ft	275.00 ml/min
2/13/2024 11:50 AM	10:00	5.40 pH	17.10 °C	27.94 µS/cm	1.50 mg/L	4.32 NTU	82.7 mV	27.90 ft	275.00 ml/min
2/13/2024 11:55 AM	15:00	5.43 pH	17.18 °C	27.83 µS/cm	1.70 mg/L	5.11 NTU	83.0 mV	27.90 ft	275.00 ml/min
2/13/2024 12:00 PM	20:00	5.43 pH	17.02 °C	28.10 µS/cm	1.73 mg/L	4.72 NTU	85.9 mV	27.90 ft	250.00 ml/min
2/13/2024 12:05 PM	25:00	5.44 pH	16.90 °C	28.24 µS/cm	1.70 mg/L	3.64 NTU	96.4 mV	27.90 ft	250.00 ml/min
2/13/2024 12:10 PM	30:00	5.45 pH	17.03 °C	28.33 µS/cm	1.78 mg/L	3.11 NTU	89.2 mV	27.90 ft	250.00 ml/min
2/13/2024 12:15 PM	35:00	5.46 pH	17.05 °C	28.33 µS/cm	1.84 mg/L	2.56 NTU	100.8 mV	27.90 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/13/2024 10:25:07 AM
Project: Plant Wansley Ash Pond
Operator Name: J. 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: 6.56 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 97 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 10 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080306**

Test Notes:
Sunny, sample time-1055

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/13/2024 10:25 AM	00:00	6.66 pH	15.74 °C	11.38 µS/cm	9.97 mg/L	1.50 NTU	254.4 mV	6.56 ft	250.00 ml/min
2/13/2024 10:30 AM	05:00	6.05 pH	15.13 °C	111.86 µS/cm	0.40 mg/L	0.55 NTU	108.8 mV	7.00 ft	250.00 ml/min
2/13/2024 10:35 AM	10:00	5.96 pH	15.11 °C	101.21 µS/cm	0.15 mg/L	1.20 NTU	99.0 mV	7.30 ft	250.00 ml/min
2/13/2024 10:40 AM	15:00	5.95 pH	15.56 °C	100.17 µS/cm	0.07 mg/L	0.61 NTU	102.8 mV	7.40 ft	250.00 ml/min
2/13/2024 10:45 AM	20:00	5.96 pH	15.61 °C	100.37 µS/cm	0.06 mg/L	0.38 NTU	100.4 mV	7.40 ft	250.00 ml/min
2/13/2024 10:50 AM	25:00	5.96 pH	15.29 °C	100.42 µS/cm	0.08 mg/L	0.35 NTU	90.0 mV	7.40 ft	250.00 ml/min
2/13/2024 10:55 AM	30:00	5.97 pH	15.74 °C	100.65 µS/cm	0.09 mg/L	0.39 NTU	87.0 mV	7.40 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/13/2024 10:42:51 AM
Project: Plant Wansley Ash Pond
Operator Name: D. 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: 2.24 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 14 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 1.2 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Sample time 1107. 47 degrees F, sunny.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/13/2024 10:42 AM	00:00	7.31 pH	20.33 °C	74.02 µS/cm	6.59 mg/L	1.51 NTU	120.3 mV	2.24 ft	300.00 ml/min
2/13/2024 10:47 AM	05:00	5.52 pH	16.49 °C	31.60 µS/cm	5.85 mg/L	1.46 NTU	67.4 mV	2.31 ft	300.00 ml/min
2/13/2024 10:52 AM	10:00	5.50 pH	16.38 °C	31.21 µS/cm	5.82 mg/L	1.11 NTU	65.0 mV	2.34 ft	300.00 ml/min
2/13/2024 10:57 AM	15:00	5.50 pH	16.39 °C	31.17 µS/cm	5.83 mg/L	1.13 NTU	64.6 mV	2.34 ft	300.00 ml/min
2/13/2024 11:02 AM	20:00	5.51 pH	16.45 °C	31.11 µS/cm	5.83 mg/L	1.01 NTU	63.7 mV	2.34 ft	300.00 ml/min
2/13/2024 11:07 AM	25:00	5.52 pH	16.50 °C	31.12 µS/cm	5.83 mg/L	0.96 NTU	65.5 mV	2.34 ft	300.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/13/2024 11:40:04 AM
Project: Plant Wansley Ash Pond
Operator Name: D. 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: 4.02 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 68 ft** **Estimated Total Volume Pumped: 3.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 19.68 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Sample time 1205. Sunny, 50 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/13/2024 11:40 AM	00:00	6.19 pH	19.75 °C	115.56 µS/cm	4.88 mg/L	1.37 NTU	63.4 mV	4.02 ft	150.00 ml/min
2/13/2024 11:45 AM	05:00	6.79 pH	16.59 °C	136.24 µS/cm	0.11 mg/L	3.96 NTU	48.9 mV	5.05 ft	150.00 ml/min
2/13/2024 11:50 AM	10:00	7.01 pH	16.48 °C	136.45 µS/cm	0.04 mg/L	1.32 NTU	52.5 mV	5.12 ft	150.00 ml/min
2/13/2024 11:55 AM	15:00	7.07 pH	16.29 °C	134.77 µS/cm	0.04 mg/L	0.99 NTU	57.3 mV	5.65 ft	150.00 ml/min
2/13/2024 12:00 PM	20:00	7.09 pH	16.27 °C	132.94 µS/cm	0.05 mg/L	0.97 NTU	60.9 mV	5.66 ft	150.00 ml/min
2/13/2024 12:05 PM	25:00	7.10 pH	16.38 °C	131.45 µS/cm	0.06 mg/L	0.96 NTU	59.4 mV	5.66 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/16/2024 8:15:36 AM
Project: Plant Wansley Ash Pond
Operator Name: D. Johnson

Location Name: WGWA-5 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 13.6 ft** **Total Depth: 23.6 ft** **Initial Depth to Water: 11.94 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 18 ft** **Estimated Total Volume Pumped: 28.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 3.6 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Sample time 1115. Overcast, 60 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/16/2024 8:15 AM	00:00	7.15 pH	11.96 °C	75.15 µS/cm	9.12 mg/L	27.00 NTU	129.4 mV	11.94 ft	150.00 ml/min
2/16/2024 8:20 AM	05:00	5.32 pH	13.42 °C	20.54 µS/cm	8.07 mg/L	26.90 NTU	112.6 mV	12.22 ft	150.00 ml/min
2/16/2024 8:25 AM	10:00	5.28 pH	13.65 °C	19.28 µS/cm	7.93 mg/L	26.60 NTU	115.6 mV	12.23 ft	150.00 ml/min
2/16/2024 8:30 AM	15:00	5.27 pH	14.01 °C	18.87 µS/cm	7.95 mg/L	23.90 NTU	119.9 mV	12.24 ft	150.00 ml/min
2/16/2024 8:35 AM	20:00	5.26 pH	14.11 °C	18.30 µS/cm	7.93 mg/L	23.70 NTU	122.4 mV	12.24 ft	150.00 ml/min
2/16/2024 8:40 AM	25:00	5.26 pH	14.21 °C	18.21 µS/cm	7.92 mg/L	23.80 NTU	124.5 mV	12.24 ft	150.00 ml/min
2/16/2024 8:45 AM	30:00	5.27 pH	14.19 °C	17.99 µS/cm	7.81 mg/L	23.20 NTU	126.7 mV	12.24 ft	150.00 ml/min
2/16/2024 8:50 AM	35:00	5.26 pH	14.38 °C	17.91 µS/cm	7.83 mg/L	23.10 NTU	128.2 mV	12.24 ft	150.00 ml/min
2/16/2024 8:55 AM	40:00	5.26 pH	14.52 °C	17.90 µS/cm	7.74 mg/L	22.80 NTU	129.9 mV	12.24 ft	150.00 ml/min
2/16/2024 9:00 AM	45:00	5.26 pH	14.39 °C	17.63 µS/cm	7.76 mg/L	22.50 NTU	131.6 mV	12.24 ft	150.00 ml/min
2/16/2024 9:05 AM	50:00	5.26 pH	14.34 °C	17.63 µS/cm	7.79 mg/L	22.60 NTU	132.4 mV	12.24 ft	150.00 ml/min
2/16/2024 9:10 AM	55:00	5.25 pH	14.56 °C	17.73 µS/cm	7.79 mg/L	21.90 NTU	134.2 mV	12.24 ft	150.00 ml/min
2/16/2024 9:15 AM	01:00:00	5.25 pH	14.70 °C	17.47 µS/cm	7.75 mg/L	20.80 NTU	135.2 mV	12.24 ft	150.00 ml/min
2/16/2024 9:20 AM	01:05:00	5.25 pH	14.78 °C	17.47 µS/cm	7.72 mg/L	20.70 NTU	135.9 mV	12.24 ft	150.00 ml/min
2/16/2024 9:25 AM	01:10:00	5.25 pH	14.91 °C	17.54 µS/cm	7.66 mg/L	20.70 NTU	136.6 mV	12.24 ft	150.00 ml/min

2/16/2024 9:30 AM	01:15:00	5.25 pH	15.00 °C	17.39 µS/cm	7.67 mg/L	20.80 NTU	137.2 mV	12.24 ft	150.00 ml/min
2/16/2024 9:35 AM	01:20:00	5.25 pH	14.95 °C	17.51 µS/cm	7.64 mg/L	20.80 NTU	137.9 mV	12.24 ft	200.00 ml/min
2/16/2024 9:40 AM	01:25:00	5.24 pH	14.91 °C	17.29 µS/cm	7.62 mg/L	21.20 NTU	139.1 mV	12.24 ft	200.00 ml/min
2/16/2024 9:45 AM	01:30:00	5.24 pH	14.94 °C	17.39 µS/cm	7.64 mg/L	21.10 NTU	139.7 mV	12.24 ft	200.00 ml/min
2/16/2024 9:50 AM	01:35:00	5.24 pH	15.28 °C	17.17 µS/cm	7.59 mg/L	21.10 NTU	140.3 mV	12.24 ft	200.00 ml/min
2/16/2024 9:55 AM	01:40:00	5.24 pH	15.46 °C	17.42 µS/cm	7.57 mg/L	21.30 NTU	141.7 mV	12.24 ft	200.00 ml/min
2/16/2024 10:00 AM	01:45:00	5.24 pH	15.61 °C	17.15 µS/cm	7.55 mg/L	21.00 NTU	142.9 mV	12.24 ft	200.00 ml/min
2/16/2024 10:05 AM	01:50:00	5.24 pH	15.96 °C	17.21 µS/cm	7.52 mg/L	20.90 NTU	144.9 mV	12.24 ft	150.00 ml/min
2/16/2024 10:10 AM	01:55:00	5.24 pH	16.13 °C	17.18 µS/cm	7.50 mg/L	20.10 NTU	146.9 mV	12.24 ft	150.00 ml/min
2/16/2024 10:15 AM	02:00:00	5.23 pH	16.41 °C	17.03 µS/cm	7.42 mg/L	20.10 NTU	148.1 mV	12.24 ft	150.00 ml/min
2/16/2024 10:20 AM	02:05:00	5.24 pH	16.17 °C	17.11 µS/cm	7.46 mg/L	20.40 NTU	146.0 mV	12.24 ft	150.00 ml/min
2/16/2024 10:25 AM	02:10:00	5.23 pH	15.96 °C	17.04 µS/cm	7.45 mg/L	20.20 NTU	144.3 mV	12.24 ft	150.00 ml/min
2/16/2024 10:30 AM	02:15:00	5.24 pH	15.96 °C	17.32 µS/cm	7.44 mg/L	19.90 NTU	143.7 mV	12.24 ft	150.00 ml/min
2/16/2024 10:35 AM	02:20:00	5.23 pH	16.07 °C	16.95 µS/cm	7.43 mg/L	19.70 NTU	143.2 mV	12.24 ft	150.00 ml/min
2/16/2024 10:40 AM	02:25:00	5.24 pH	16.16 °C	17.06 µS/cm	7.41 mg/L	20.00 NTU	142.2 mV	12.24 ft	150.00 ml/min
2/16/2024 10:45 AM	02:30:00	5.24 pH	16.24 °C	17.13 µS/cm	7.38 mg/L	19.90 NTU	142.7 mV	12.24 ft	150.00 ml/min
2/16/2024 10:50 AM	02:35:00	5.24 pH	16.29 °C	16.95 µS/cm	7.38 mg/L	19.70 NTU	141.7 mV	12.24 ft	150.00 ml/min
2/16/2024 10:55 AM	02:40:00	5.24 pH	16.41 °C	17.01 µS/cm	7.37 mg/L	19.30 NTU	142.5 mV	12.24 ft	150.00 ml/min
2/16/2024 11:00 AM	02:45:00	5.24 pH	16.53 °C	17.18 µS/cm	7.35 mg/L	19.50 NTU	143.4 mV	12.24 ft	150.00 ml/min
2/16/2024 11:05 AM	02:50:00	5.23 pH	16.61 °C	16.94 µS/cm	7.34 mg/L	19.40 NTU	143.9 mV	12.24 ft	150.00 ml/min
2/16/2024 11:10 AM	02:55:00	5.23 pH	16.91 °C	16.98 µS/cm	7.35 mg/L	20.10 NTU	144.9 mV	12.24 ft	150.00 ml/min
2/16/2024 11:15 AM	03:00:00	5.23 pH	17.22 °C	16.87 µS/cm	7.33 mg/L	19.90 NTU	145.0 mV	12.24 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/13/2024 12:43:34 PM
Project: Plant Wansley Ash Pond
Operator Name: D. 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: 19.34 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 99 ft** **Estimated Total Volume Pumped: 3.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 9.84 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Sample time 1308. 53 degrees F, sunny.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/13/2024 12:43 PM	00:00	7.14 pH	17.56 °C	149.43 µS/cm	8.75 mg/L	1.76 NTU	61.3 mV	19.34 ft	150.00 ml/min
2/13/2024 12:48 PM	05:00	7.44 pH	16.74 °C	161.55 µS/cm	0.57 mg/L	1.64 NTU	55.1 mV	19.93 ft	150.00 ml/min
2/13/2024 12:53 PM	10:00	7.58 pH	16.49 °C	162.27 µS/cm	0.22 mg/L	1.51 NTU	60.5 mV	20.05 ft	150.00 ml/min
2/13/2024 12:58 PM	15:00	7.66 pH	16.36 °C	162.64 µS/cm	0.16 mg/L	1.36 NTU	63.5 mV	20.09 ft	150.00 ml/min
2/13/2024 1:03 PM	20:00	7.71 pH	16.33 °C	163.13 µS/cm	0.14 mg/L	0.77 NTU	66.0 mV	20.16 ft	150.00 ml/min
2/13/2024 1:08 PM	25:00	7.75 pH	16.14 °C	163.41 µS/cm	0.15 mg/L	0.74 NTU	66.4 mV	20.16 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/13/2024 3:05:23 PM
Project: Plant Wansley Ash Pond
Operator Name: J. Tracy

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: 31.02 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 34 ft** **Estimated Total Volume Pumped: 22.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 41.16 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883561**

Test Notes:
Sample time 1620 weather sunny 54

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/13/2024 3:05 PM	00:00	6.26 pH	13.22 °C	82.61 µS/cm	7.49 mg/L	6.77 NTU	66.6 mV	31.30 ft	300.00 ml/min
2/13/2024 3:10 PM	05:00	6.24 pH	15.60 °C	73.32 µS/cm	6.80 mg/L	6.84 NTU	65.8 mV	31.60 ft	300.00 ml/min
2/13/2024 3:15 PM	10:00	6.01 pH	15.72 °C	48.86 µS/cm	7.57 mg/L	5.72 NTU	75.6 mV	31.60 ft	300.00 ml/min
2/13/2024 3:20 PM	15:00	5.92 pH	15.71 °C	44.40 µS/cm	7.96 mg/L	4.39 NTU	72.8 mV	32.40 ft	300.00 ml/min
2/13/2024 3:25 PM	20:00	6.00 pH	15.83 °C	51.64 µS/cm	7.59 mg/L	3.42 NTU	68.9 mV	32.80 ft	300.00 ml/min
2/13/2024 3:30 PM	25:00	6.10 pH	15.71 °C	61.38 µS/cm	7.31 mg/L	3.67 NTU	66.1 mV	33.20 ft	300.00 ml/min
2/13/2024 3:35 PM	30:00	6.19 pH	15.75 °C	71.91 µS/cm	6.75 mg/L	3.83 NTU	62.9 mV	33.46 ft	300.00 ml/min
2/13/2024 3:40 PM	35:00	6.16 pH	15.71 °C	66.51 µS/cm	6.67 mg/L	4.14 NTU	61.3 mV	33.80 ft	300.00 ml/min
2/13/2024 3:45 PM	40:00	6.06 pH	15.69 °C	59.38 µS/cm	6.87 mg/L	3.82 NTU	62.4 mV	34.00 ft	300.00 ml/min
2/13/2024 3:50 PM	45:00	6.17 pH	15.67 °C	71.84 µS/cm	6.45 mg/L	3.64 NTU	56.8 mV	34.20 ft	300.00 ml/min
2/13/2024 3:55 PM	50:00	6.21 pH	15.49 °C	77.31 µS/cm	6.20 mg/L	3.80 NTU	54.8 mV	34.30 ft	300.00 ml/min
2/13/2024 4:00 PM	55:00	6.27 pH	15.30 °C	80.17 µS/cm	6.15 mg/L	3.95 NTU	52.3 mV	34.45 ft	300.00 ml/min
2/13/2024 4:05 PM	01:00:00	6.23 pH	15.21 °C	75.57 µS/cm	6.42 mg/L	3.83 NTU	52.9 mV	34.45 ft	300.00 ml/min
2/13/2024 4:10 PM	01:05:00	6.20 pH	15.17 °C	72.69 µS/cm	6.59 mg/L	3.76 NTU	53.4 mV	34.45 ft	300.00 ml/min
2/13/2024 4:15 PM	01:10:00	6.19 pH	15.19 °C	71.16 µS/cm	6.67 mg/L	3.02 NTU	53.7 mV	34.45 ft	300.00 ml/min

2/13/2024 4:20 PM	01:15:00	6.19 pH	15.08 °C	71.53 µS/cm	6.69 mg/L	2.63 NTU	53.7 mV	34.45 ft	300.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/13/2024 11:00:28 AM
Project: Plant Wansley Ash Pond
Operator Name: J. Tracy

Location Name: WGWA-18 **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: 20.63 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 34 ft** **Estimated Total Volume Pumped: 8.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 51.24 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883561**

Test Notes:
Sample time 1155 sunny 49

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/13/2024 11:00 AM	00:00	6.69 pH	14.78 °C	106.22 µS/cm	2.40 mg/L	3.63 NTU	93.3 mV	20.63 ft	150.00 ml/min
2/13/2024 11:05 AM	05:00	6.71 pH	15.25 °C	113.63 µS/cm	0.75 mg/L	2.83 NTU	60.8 mV	22.85 ft	150.00 ml/min
2/13/2024 11:10 AM	10:00	6.51 pH	15.34 °C	111.03 µS/cm	0.35 mg/L	1.03 NTU	23.2 mV	23.78 ft	150.00 ml/min
2/13/2024 11:15 AM	15:00	6.41 pH	15.43 °C	105.75 µS/cm	0.48 mg/L	0.59 NTU	14.5 mV	24.25 ft	150.00 ml/min
2/13/2024 11:20 AM	20:00	6.33 pH	15.44 °C	96.61 µS/cm	1.03 mg/L	0.57 NTU	24.2 mV	24.31 ft	150.00 ml/min
2/13/2024 11:25 AM	25:00	6.23 pH	15.56 °C	85.65 µS/cm	1.83 mg/L	0.46 NTU	35.3 mV	24.70 ft	150.00 ml/min
2/13/2024 11:30 AM	30:00	6.12 pH	15.66 °C	74.64 µS/cm	2.46 mg/L	0.38 NTU	42.0 mV	24.90 ft	150.00 ml/min
2/13/2024 11:35 AM	35:00	6.02 pH	15.57 °C	66.41 µS/cm	2.91 mg/L	0.38 NTU	46.4 mV	24.90 ft	150.00 ml/min
2/13/2024 11:40 AM	40:00	5.94 pH	15.62 °C	60.13 µS/cm	3.18 mg/L	0.28 NTU	48.7 mV	24.90 ft	150.00 ml/min
2/13/2024 11:45 AM	45:00	5.89 pH	15.62 °C	56.83 µS/cm	3.28 mg/L	0.28 NTU	49.3 mV	24.90 ft	150.00 ml/min
2/13/2024 11:50 AM	50:00	5.86 pH	15.79 °C	55.84 µS/cm	3.22 mg/L	0.43 NTU	49.4 mV	24.90 ft	150.00 ml/min
2/13/2024 11:55 AM	55:00	5.84 pH	15.76 °C	55.13 µS/cm	3.11 mg/L	0.54 NTU	49.0 mV	24.90 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/13/2024 2:55:05 PM
Project: Plant Wansley Ash Pond
Operator Name: J. Berisford

Location Name: WGWC-8 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 49.63 ft** **Total Depth: 59.63 ft** **Initial Depth to Water: 2.56 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 54 ft** **Estimated Total Volume Pumped: 4.2 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 120 ml/min** **Final Draw Down: 12 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080306**

Test Notes:
Sunny, sample time -1530, FB-07 here at 1515

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/13/2024 2:55 PM	00:00	6.02 pH	22.33 °C	611.09 µS/cm	9.14 mg/L	0.89 NTU	151.5 mV	2.56 ft	120.00 ml/min
2/13/2024 3:00 PM	05:00	5.81 pH	16.60 °C	682.30 µS/cm	1.75 mg/L	1.02 NTU	153.3 mV	3.00 ft	120.00 ml/min
2/13/2024 3:05 PM	10:00	5.37 pH	16.06 °C	667.66 µS/cm	1.45 mg/L	2.14 NTU	128.9 mV	3.20 ft	120.00 ml/min
2/13/2024 3:10 PM	15:00	5.32 pH	15.99 °C	664.34 µS/cm	1.34 mg/L	2.01 NTU	122.5 mV	3.30 ft	120.00 ml/min
2/13/2024 3:15 PM	20:00	5.31 pH	15.78 °C	658.73 µS/cm	1.29 mg/L	2.08 NTU	117.4 mV	3.40 ft	120.00 ml/min
2/13/2024 3:20 PM	25:00	5.31 pH	15.47 °C	659.05 µS/cm	1.28 mg/L	2.32 NTU	113.1 mV	3.50 ft	120.00 ml/min
2/13/2024 3:25 PM	30:00	5.31 pH	15.29 °C	658.69 µS/cm	1.28 mg/L	1.35 NTU	109.4 mV	3.50 ft	120.00 ml/min
2/13/2024 3:30 PM	35:00	5.31 pH	14.95 °C	659.69 µS/cm	1.27 mg/L	1.22 NTU	106.2 mV	3.50 ft	120.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/14/2024 1:05:28 PM
Project: Plant Wansley Ash Pond
Operator Name: J. Berisford

Location Name: WGWC-9 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 51.08 ft** **Total Depth: 61.08 ft** **Initial Depth to Water: 20.68 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 56 ft** **Estimated Total Volume Pumped: 4 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 31 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080306**

Test Notes:
Sunny sample time-1345

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/14/2024 1:05 PM	00:00	6.51 pH	27.00 °C	135.79 µS/cm	4.15 mg/L	2.61 NTU	20.4 mV	20.68 ft	100.00 ml/min
2/14/2024 1:10 PM	05:00	6.21 pH	20.51 °C	136.28 µS/cm	3.01 mg/L	2.42 NTU	37.6 mV	21.60 ft	100.00 ml/min
2/14/2024 1:15 PM	10:00	6.19 pH	20.07 °C	136.72 µS/cm	2.90 mg/L	2.06 NTU	45.6 mV	22.10 ft	100.00 ml/min
2/14/2024 1:20 PM	15:00	6.17 pH	19.42 °C	138.80 µS/cm	2.96 mg/L	1.55 NTU	49.0 mV	22.40 ft	100.00 ml/min
2/14/2024 1:25 PM	20:00	6.18 pH	19.21 °C	139.12 µS/cm	2.98 mg/L	1.74 NTU	51.1 mV	22.90 ft	100.00 ml/min
2/14/2024 1:30 PM	25:00	6.17 pH	19.17 °C	139.13 µS/cm	2.98 mg/L	0.98 NTU	52.6 mV	23.10 ft	100.00 ml/min
2/14/2024 1:35 PM	30:00	6.16 pH	19.06 °C	139.84 µS/cm	2.83 mg/L	1.83 NTU	53.5 mV	23.30 ft	100.00 ml/min
2/14/2024 1:40 PM	35:00	6.16 pH	19.09 °C	138.63 µS/cm	2.73 mg/L	1.47 NTU	54.5 mV	23.30 ft	100.00 ml/min
2/14/2024 1:45 PM	40:00	6.13 pH	18.82 °C	138.52 µS/cm	2.64 mg/L	1.35 NTU	55.6 mV	23.30 ft	100.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/15/2024 11:55:04 AM
Project: Plant Wansley Ash Pond
Operator Name: D. 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: 22.25 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 143 ft** **Estimated Total Volume Pumped: 2.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 75 ml/min** **Final Draw Down: 24.24 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Sample time 1220. Sunny, 61 degrees F.
FB-08 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/15/2024 11:55 AM	00:00	7.47 pH	14.37 °C	69.17 µS/cm	7.76 mg/L	1.20 NTU	107.0 mV	22.25 ft	100.00 ml/min
2/15/2024 12:00 PM	05:00	6.57 pH	16.45 °C	66.83 µS/cm	1.63 mg/L	2.62 NTU	113.6 mV	23.40 ft	100.00 ml/min
2/15/2024 12:05 PM	10:00	6.41 pH	16.47 °C	67.50 µS/cm	3.64 mg/L	1.46 NTU	125.4 mV	23.80 ft	100.00 ml/min
2/15/2024 12:10 PM	15:00	6.42 pH	16.55 °C	71.53 µS/cm	5.33 mg/L	1.52 NTU	128.3 mV	24.10 ft	75.00 ml/min
2/15/2024 12:15 PM	20:00	6.42 pH	16.67 °C	72.45 µS/cm	5.77 mg/L	1.52 NTU	134.1 mV	24.22 ft	75.00 ml/min
2/15/2024 12:20 PM	25:00	6.41 pH	16.57 °C	72.25 µS/cm	5.84 mg/L	1.50 NTU	136.5 mV	24.27 ft	75.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/16/2024 9:20:03 AM
Project: Plant Wansley Ash Pond
Operator Name: A. Schnittker

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: 28.48 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 44 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 46 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Sample time 0950. Overcast 60s. FD-03 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/16/2024 9:20 AM	00:00	5.49 pH	15.57 °C	24.23 µS/cm	6.41 mg/L	1.83 NTU	151.7 mV	28.48 ft	200.00 ml/min
2/16/2024 9:25 AM	05:00	5.56 pH	16.56 °C	24.58 µS/cm	6.16 mg/L	1.64 NTU	129.4 mV	32.30 ft	200.00 ml/min
2/16/2024 9:30 AM	10:00	5.57 pH	16.64 °C	25.01 µS/cm	6.09 mg/L	0.83 NTU	125.6 mV	32.30 ft	200.00 ml/min
2/16/2024 9:35 AM	15:00	5.60 pH	16.62 °C	25.19 µS/cm	6.07 mg/L	1.69 NTU	171.4 mV	32.30 ft	200.00 ml/min
2/16/2024 9:40 AM	20:00	5.61 pH	16.75 °C	25.29 µS/cm	6.01 mg/L	0.71 NTU	123.4 mV	32.30 ft	200.00 ml/min
2/16/2024 9:45 AM	25:00	5.61 pH	16.71 °C	25.21 µS/cm	6.07 mg/L	1.14 NTU	120.3 mV	32.30 ft	200.00 ml/min
2/16/2024 9:50 AM	30:00	5.60 pH	16.78 °C	25.34 µS/cm	6.09 mg/L	0.45 NTU	115.7 mV	32.30 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/14/2024 12:45:04 PM
Project: Plant Wansley Ash Pond
Operator Name: J. Tracy

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: 27.95 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 71 ft** **Estimated Total Volume Pumped: 30.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 275 ml/min** **Final Draw Down: 4.2 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883561**

Test Notes:
Sample time 1435 weather sunny 62

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/14/2024 12:45 PM	00:00	6.55 pH	19.07 °C	124.60 µS/cm	2.31 mg/L	675.00 NTU	-45.3 mV	27.95 ft	275.00 ml/min
2/14/2024 12:50 PM	05:00	6.57 pH	18.61 °C	121.76 µS/cm	1.29 mg/L	574.00 NTU	7.6 mV	28.30 ft	275.00 ml/min
2/14/2024 12:55 PM	10:00	6.58 pH	18.39 °C	121.96 µS/cm	0.70 mg/L	152.00 NTU	-0.7 mV	28.30 ft	275.00 ml/min
2/14/2024 1:00 PM	15:00	6.59 pH	18.35 °C	123.89 µS/cm	0.56 mg/L	56.30 NTU	-2.0 mV	28.30 ft	275.00 ml/min
2/14/2024 1:05 PM	20:00	6.61 pH	18.39 °C	126.26 µS/cm	0.48 mg/L	32.50 NTU	-2.5 mV	28.30 ft	275.00 ml/min
2/14/2024 1:10 PM	25:00	6.61 pH	18.08 °C	128.02 µS/cm	0.26 mg/L	21.20 NTU	-2.4 mV	28.30 ft	275.00 ml/min
2/14/2024 1:15 PM	30:00	6.63 pH	18.03 °C	129.40 µS/cm	0.22 mg/L	15.60 NTU	-2.7 mV	28.30 ft	275.00 ml/min
2/14/2024 1:20 PM	35:00	6.64 pH	18.11 °C	129.93 µS/cm	0.18 mg/L	12.80 NTU	-2.4 mV	28.30 ft	275.00 ml/min
2/14/2024 1:25 PM	40:00	6.64 pH	18.19 °C	130.60 µS/cm	0.17 mg/L	12.10 NTU	-1.5 mV	28.30 ft	275.00 ml/min
2/14/2024 1:30 PM	45:00	6.66 pH	18.26 °C	130.83 µS/cm	0.16 mg/L	11.80 NTU	-2.1 mV	28.30 ft	275.00 ml/min
2/14/2024 1:35 PM	50:00	6.65 pH	19.37 °C	130.70 µS/cm	0.22 mg/L	11.40 NTU	-2.6 mV	28.30 ft	275.00 ml/min
2/14/2024 1:40 PM	55:00	6.65 pH	18.71 °C	130.87 µS/cm	0.21 mg/L	10.70 NTU	-1.7 mV	28.30 ft	275.00 ml/min
2/14/2024 1:45 PM	01:00:00	6.66 pH	18.47 °C	130.84 µS/cm	0.19 mg/L	9.93 NTU	-1.4 mV	28.30 ft	275.00 ml/min
2/14/2024 1:50 PM	01:05:00	6.66 pH	18.42 °C	130.53 µS/cm	0.16 mg/L	9.81 NTU	-1.2 mV	28.30 ft	275.00 ml/min

2/14/2024 1:55 PM	01:10:00	6.67 pH	18.63 °C	130.22 µS/cm	0.15 mg/L	9.10 NTU	-1.3 mV	28.30 ft	275.00 ml/min
2/14/2024 2:00 PM	01:15:00	6.66 pH	18.50 °C	130.10 µS/cm	0.16 mg/L	8.64 NTU	-0.9 mV	28.30 ft	275.00 ml/min
2/14/2024 2:05 PM	01:20:00	6.67 pH	18.48 °C	129.84 µS/cm	0.15 mg/L	8.13 NTU	-0.8 mV	28.30 ft	275.00 ml/min
2/14/2024 2:10 PM	01:25:00	6.67 pH	18.49 °C	129.81 µS/cm	0.16 mg/L	7.72 NTU	-0.7 mV	28.30 ft	275.00 ml/min
2/14/2024 2:15 PM	01:30:00	6.67 pH	18.43 °C	129.52 µS/cm	0.16 mg/L	7.22 NTU	-0.3 mV	28.30 ft	275.00 ml/min
2/14/2024 2:20 PM	01:35:00	6.67 pH	18.42 °C	129.19 µS/cm	0.16 mg/L	6.43 NTU	-0.3 mV	28.30 ft	275.00 ml/min
2/14/2024 2:25 PM	01:40:00	6.67 pH	18.38 °C	129.06 µS/cm	0.17 mg/L	5.83 NTU	0.1 mV	28.30 ft	275.00 ml/min
2/14/2024 2:30 PM	01:45:00	6.67 pH	18.30 °C	128.57 µS/cm	0.17 mg/L	5.22 NTU	0.3 mV	28.30 ft	275.00 ml/min
2/14/2024 2:35 PM	01:50:00	6.67 pH	18.17 °C	128.52 µS/cm	0.18 mg/L	4.76 NTU	0.5 mV	28.30 ft	275.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/15/2024 3:15:43 PM
Project: Plant Wansley Ash Pond
Operator Name: A. Schnittker

Location Name: WGWC-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 85.55 ft** **Total Depth: 95.55 ft** **Initial Depth to Water: 20.04 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 90 ft** **Estimated Total Volume Pumped: 5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 125 ml/min** **Final Draw Down: 39 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Sample time 1555. Sunny 60s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/15/2024 3:15 PM	00:00	6.45 pH	19.71 °C	43.83 µS/cm	5.18 mg/L	3.28 NTU	86.3 mV	20.04 ft	125.00 ml/min
2/15/2024 3:20 PM	05:00	6.20 pH	19.81 °C	43.36 µS/cm	3.75 mg/L	2.77 NTU	88.7 mV	20.90 ft	125.00 ml/min
2/15/2024 3:25 PM	10:00	6.28 pH	18.53 °C	43.95 µS/cm	3.71 mg/L	2.45 NTU	87.2 mV	21.90 ft	125.00 ml/min
2/15/2024 3:30 PM	15:00	6.30 pH	18.36 °C	44.55 µS/cm	3.67 mg/L	2.47 NTU	86.7 mV	22.60 ft	125.00 ml/min
2/15/2024 3:35 PM	20:00	6.29 pH	18.38 °C	43.67 µS/cm	3.61 mg/L	2.51 NTU	86.4 mV	23.20 ft	125.00 ml/min
2/15/2024 3:40 PM	25:00	6.26 pH	18.90 °C	44.10 µS/cm	3.54 mg/L	2.49 NTU	86.2 mV	23.30 ft	125.00 ml/min
2/15/2024 3:45 PM	30:00	6.27 pH	18.63 °C	43.50 µS/cm	3.29 mg/L	2.30 NTU	85.6 mV	23.30 ft	125.00 ml/min
2/15/2024 3:50 PM	35:00	6.28 pH	18.44 °C	43.49 µS/cm	3.16 mg/L	2.14 NTU	85.2 mV	23.30 ft	125.00 ml/min
2/15/2024 3:55 PM	40:00	6.30 pH	18.22 °C	43.40 µS/cm	3.12 mg/L	2.29 NTU	84.0 mV	23.30 ft	125.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/15/2024 3:40:10 PM
Project: Plant Wansley Ash Pond
Operator Name: B. Maxwell

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: 21.76 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 38 ft** **Estimated Total Volume Pumped: 3.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 125 ml/min** **Final Draw Down: 18 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sample time 1610. Sunny 60s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/15/2024 3:40 PM	00:00	5.04 pH	19.77 °C	23.73 µS/cm	2.02 mg/L	2.28 NTU	125.4 mV	21.76 ft	125.00 ml/min
2/15/2024 3:45 PM	05:00	5.11 pH	18.79 °C	22.50 µS/cm	1.91 mg/L	2.50 NTU	110.9 mV	22.89 ft	125.00 ml/min
2/15/2024 3:50 PM	10:00	5.09 pH	18.61 °C	21.58 µS/cm	1.97 mg/L	1.63 NTU	108.7 mV	23.06 ft	125.00 ml/min
2/15/2024 3:55 PM	15:00	5.12 pH	18.39 °C	20.89 µS/cm	1.95 mg/L	1.30 NTU	102.7 mV	23.30 ft	125.00 ml/min
2/15/2024 4:00 PM	20:00	5.09 pH	18.33 °C	20.76 µS/cm	1.95 mg/L	1.09 NTU	102.9 mV	23.30 ft	125.00 ml/min
2/15/2024 4:05 PM	25:00	5.17 pH	18.30 °C	21.56 µS/cm	1.87 mg/L	1.21 NTU	99.2 mV	23.30 ft	125.00 ml/min
2/15/2024 4:10 PM	30:00	5.18 pH	18.38 °C	21.38 µS/cm	1.87 mg/L	1.43 NTU	96.9 mV	23.30 ft	125.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/15/2024 2:55:38 PM
Project: Plant Wansley Ash Pond
Operator Name: J. Tracy

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: 18.71 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 48 ft** **Estimated Total Volume Pumped: 9.34 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 50 ml/min** **Final Draw Down: 128.28 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883561**

Test Notes:
Sample time 1635. Connectivity issue. Weather is sunny 65

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/15/2024 2:55 PM	00:00	6.30 pH	17.09 °C	209.24 µS/cm	7.45 mg/L	1.41 NTU	100.1 mV	18.71 ft	100.00 ml/min
2/15/2024 3:00 PM	05:00	7.55 pH	16.33 °C	229.65 µS/cm	2.80 mg/L	1.07 NTU	-29.2 mV	20.32 ft	100.00 ml/min
2/15/2024 3:05 PM	10:00	7.72 pH	16.55 °C	215.24 µS/cm	2.32 mg/L	0.75 NTU	11.6 mV	21.05 ft	100.00 ml/min
2/15/2024 3:10 PM	15:00	7.73 pH	16.74 °C	208.39 µS/cm	3.97 mg/L	0.82 NTU	24.1 mV	21.87 ft	100.00 ml/min
2/15/2024 3:15 PM	20:00	7.75 pH	16.69 °C	206.72 µS/cm	4.20 mg/L	0.83 NTU	24.6 mV	22.90 ft	100.00 ml/min
2/15/2024 3:20 PM	25:00	7.76 pH	17.05 °C	205.53 µS/cm	4.31 mg/L	0.93 NTU	26.7 mV	24.05 ft	100.00 ml/min
2/15/2024 3:25 PM	30:00	7.77 pH	16.94 °C	205.39 µS/cm	4.40 mg/L	1.02 NTU	28.4 mV	24.50 ft	100.00 ml/min
2/15/2024 3:30 PM	35:00	7.77 pH	17.09 °C	205.37 µS/cm	4.41 mg/L	0.71 NTU	29.6 mV	25.05 ft	100.00 ml/min
2/15/2024 3:35 PM	40:00	7.79 pH	17.10 °C	204.28 µS/cm	4.35 mg/L	0.50 NTU	30.5 mV	25.45 ft	100.00 ml/min
2/15/2024 3:40 PM	45:00	7.80 pH	17.19 °C	204.52 µS/cm	4.25 mg/L	0.52 NTU	30.1 mV	26.00 ft	100.00 ml/min
2/15/2024 3:45 PM	50:00	7.81 pH	16.96 °C	203.87 µS/cm	4.05 mg/L	0.54 NTU	28.6 mV	26.45 ft	100.00 ml/min
2/15/2024 3:50 PM	55:00	7.82 pH	16.83 °C	202.96 µS/cm	3.86 mg/L	0.50 NTU	26.1 mV	26.80 ft	100.00 ml/min
2/15/2024 3:55 PM	01:00:00	7.81 pH	16.70 °C	203.48 µS/cm	3.77 mg/L	0.55 NTU	24.6 mV	27.40 ft	100.00 ml/min
2/15/2024 4:00 PM	01:05:00	7.84 pH	16.69 °C	203.28 µS/cm	3.63 mg/L	0.62 NTU	22.3 mV	27.85 ft	100.00 ml/min

2/15/2024 4:05 PM	01:10:00	7.85 pH	16.83 °C	202.96 µS/cm	3.51 mg/L	0.65 NTU	20.2 mV	28.20 ft	100.00 ml/min
2/15/2024 4:10 PM	01:15:00	7.86 pH	16.93 °C	203.36 µS/cm	3.41 mg/L	0.65 NTU	18.8 mV	28.90 ft	100.00 ml/min
2/15/2024 4:15 PM	01:20:00	7.87 pH	16.93 °C	203.42 µS/cm	3.34 mg/L	0.70 NTU	17.6 mV	29.00 ft	100.00 ml/min
2/15/2024 4:17 PM	01:22:15	7.87 pH	17.05 °C	203.19 µS/cm	3.30 mg/L	0.42 NTU	25.8 mV	29.20 ft	100.00 ml/min
2/15/2024 4:22 PM	01:27:15	7.88 pH	17.01 °C	202.71 µS/cm	3.22 mg/L	0.38 NTU	17.0 mV	29.40 ft	50.00 ml/min
2/15/2024 4:27 PM	01:32:15	7.89 pH	17.18 °C	202.99 µS/cm	3.17 mg/L	0.42 NTU	17.7 mV	29.40 ft	50.00 ml/min
2/15/2024 4:32 PM	01:37:15	7.88 pH	17.15 °C	202.68 µS/cm	3.14 mg/L	0.34 NTU	17.7 mV	29.40 ft	50.00 ml/min
2/15/2024 4:35 PM	01:39:31	7.88 pH	17.12 °C	202.68 µS/cm	3.13 mg/L	0.34 NTU	3.2 mV	29.40 ft	50.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/15/2024 2:05:31 PM
Project: Plant Wansley Ash Pond
Operator Name: J. Tracy

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: 18 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 29 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 1.44 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883561**

Test Notes:
Sample time 1430 weather is sunny 65

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/15/2024 2:05 PM	00:00	5.40 pH	16.78 °C	216.33 µS/cm	5.55 mg/L	1.78 NTU	107.4 mV	18.00 ft	300.00 ml/min
2/15/2024 2:10 PM	05:00	5.35 pH	16.83 °C	211.56 µS/cm	4.61 mg/L	1.83 NTU	144.1 mV	18.12 ft	300.00 ml/min
2/15/2024 2:15 PM	10:00	5.34 pH	16.87 °C	212.20 µS/cm	4.53 mg/L	1.89 NTU	87.5 mV	18.12 ft	300.00 ml/min
2/15/2024 2:20 PM	15:00	5.34 pH	16.90 °C	211.81 µS/cm	4.50 mg/L	1.73 NTU	83.9 mV	18.12 ft	300.00 ml/min
2/15/2024 2:25 PM	20:00	5.33 pH	16.83 °C	212.08 µS/cm	4.52 mg/L	1.64 NTU	83.1 mV	18.12 ft	300.00 ml/min
2/15/2024 2:30 PM	25:00	5.31 pH	16.80 °C	211.72 µS/cm	4.53 mg/L	1.52 NTU	83.2 mV	18.12 ft	300.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/15/2024 3:40:47 PM
Project: Plant Wansley Ash Pond
Operator Name: D. 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: 29.15 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 90 ft** **Estimated Total Volume Pumped: 4 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 19.08 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Sample time 1620. Sunny, 65 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/15/2024 3:40 PM	00:00	5.72 pH	24.61 °C	130.09 µS/cm	7.36 mg/L	2.46 NTU	140.6 mV	29.15 ft	100.00 ml/min
2/15/2024 3:45 PM	05:00	6.13 pH	18.23 °C	93.75 µS/cm	0.69 mg/L	2.35 NTU	116.8 mV	30.31 ft	100.00 ml/min
2/15/2024 3:50 PM	10:00	6.15 pH	17.99 °C	94.10 µS/cm	1.52 mg/L	3.27 NTU	116.2 mV	30.70 ft	100.00 ml/min
2/15/2024 3:55 PM	15:00	6.16 pH	17.86 °C	94.46 µS/cm	1.16 mg/L	2.49 NTU	115.3 mV	30.72 ft	100.00 ml/min
2/15/2024 4:00 PM	20:00	6.16 pH	17.84 °C	94.51 µS/cm	1.02 mg/L	1.98 NTU	115.3 mV	30.74 ft	100.00 ml/min
2/15/2024 4:05 PM	25:00	6.16 pH	17.91 °C	94.36 µS/cm	0.81 mg/L	1.97 NTU	116.1 mV	30.74 ft	100.00 ml/min
2/15/2024 4:10 PM	30:00	6.16 pH	18.01 °C	94.17 µS/cm	0.92 mg/L	2.00 NTU	118.8 mV	30.74 ft	100.00 ml/min
2/15/2024 4:15 PM	35:00	6.16 pH	17.94 °C	94.05 µS/cm	0.92 mg/L	1.98 NTU	123.1 mV	30.74 ft	100.00 ml/min
2/15/2024 4:20 PM	40:00	6.16 pH	17.99 °C	93.81 µS/cm	0.92 mg/L	1.92 NTU	125.7 mV	30.74 ft	100.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/15/2024 1:21:41 PM
Project: Plant Wansley Ash Pond
Operator Name: D. Johnson

Location Name: WGWC-19 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 84.84 ft** **Total Depth: 94.84 ft** **Initial Depth to Water: 21.14 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 89 ft** **Estimated Total Volume Pumped: 5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 11.4 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Sample time 1346. Sunny, 64 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/15/2024 1:21 PM	00:00	6.71 pH	17.69 °C	168.01 µS/cm	8.49 mg/L	1.93 NTU	116.6 mV	21.14 ft	200.00 ml/min
2/15/2024 1:26 PM	05:00	6.74 pH	17.43 °C	178.40 µS/cm	0.63 mg/L	1.30 NTU	97.8 mV	21.91 ft	200.00 ml/min
2/15/2024 1:31 PM	10:00	6.85 pH	17.17 °C	168.32 µS/cm	0.38 mg/L	3.77 NTU	99.9 mV	21.98 ft	200.00 ml/min
2/15/2024 1:36 PM	15:00	6.86 pH	17.03 °C	165.99 µS/cm	0.27 mg/L	2.02 NTU	105.4 mV	22.05 ft	200.00 ml/min
2/15/2024 1:41 PM	20:00	6.86 pH	16.92 °C	166.44 µS/cm	0.24 mg/L	1.83 NTU	110.2 mV	22.08 ft	200.00 ml/min
2/15/2024 1:46 PM	25:00	6.87 pH	17.06 °C	167.20 µS/cm	0.21 mg/L	1.41 NTU	114.1 mV	22.09 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/13/2024 1:25:06 PM
Project: Plant Wansley Ash Pond
Operator Name: J. 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: 29.47 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 38 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 5 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080306**

Test Notes:
Sunny, sample time-1400

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/13/2024 1:25 PM	00:00	5.43 pH	22.16 °C	726.90 µS/cm	8.48 mg/L	0.60 NTU	144.2 mV	29.47 ft	200.00 ml/min
2/13/2024 1:30 PM	05:00	5.35 pH	18.36 °C	1,222.8 µS/cm	3.09 mg/L	0.53 NTU	160.7 mV	29.90 ft	200.00 ml/min
2/13/2024 1:35 PM	10:00	5.33 pH	18.55 °C	1,267.4 µS/cm	2.08 mg/L	0.50 NTU	140.1 mV	29.90 ft	200.00 ml/min
2/13/2024 1:40 PM	15:00	5.33 pH	18.77 °C	1,269.2 µS/cm	1.76 mg/L	0.59 NTU	144.4 mV	29.90 ft	200.00 ml/min
2/13/2024 1:45 PM	20:00	5.33 pH	18.72 °C	1,270.8 µS/cm	1.72 mg/L	0.61 NTU	144.9 mV	29.90 ft	200.00 ml/min
2/13/2024 1:50 PM	25:00	5.33 pH	18.87 °C	1,273.4 µS/cm	1.70 mg/L	0.44 NTU	147.4 mV	29.90 ft	200.00 ml/min
2/13/2024 1:55 PM	30:00	5.34 pH	18.87 °C	1,269.8 µS/cm	1.69 mg/L	0.77 NTU	149.9 mV	29.90 ft	200.00 ml/min
2/13/2024 2:00 PM	35:00	5.34 pH	18.82 °C	1,273.8 µS/cm	1.71 mg/L	0.52 NTU	148.9 mV	29.90 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/15/2024 9:58:14 AM
Project: Plant Wansley Ash Pond
Operator Name: D. 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: 50.81 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 66 ft** **Estimated Total Volume Pumped: 3.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 75 ml/min** **Final Draw Down: 45.24 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Sample time 1038. Sunny, 54 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/15/2024 9:58 AM	00:00	7.00 pH	8.63 °C	933.09 µS/cm	11.14 mg/L	2.87 NTU	156.2 mV	50.81 ft	100.00 ml/min
2/15/2024 10:03 AM	05:00	7.01 pH	13.24 °C	933.29 µS/cm	7.14 mg/L	1.55 NTU	130.5 mV	51.34 ft	100.00 ml/min
2/15/2024 10:08 AM	10:00	6.75 pH	14.67 °C	1,146.8 µS/cm	3.68 mg/L	1.29 NTU	125.9 mV	52.75 ft	100.00 ml/min
2/15/2024 10:13 AM	15:00	6.72 pH	15.12 °C	1,196.6 µS/cm	2.56 mg/L	2.03 NTU	127.1 mV	53.21 ft	100.00 ml/min
2/15/2024 10:18 AM	20:00	6.71 pH	15.35 °C	1,209.6 µS/cm	2.21 mg/L	1.75 NTU	129.9 mV	54.43 ft	75.00 ml/min
2/15/2024 10:23 AM	25:00	6.70 pH	15.46 °C	1,224.4 µS/cm	1.78 mg/L	1.56 NTU	132.3 mV	54.52 ft	75.00 ml/min
2/15/2024 10:28 AM	30:00	6.70 pH	15.46 °C	1,232.8 µS/cm	1.52 mg/L	1.57 NTU	134.8 mV	54.56 ft	75.00 ml/min
2/15/2024 10:33 AM	35:00	6.70 pH	15.55 °C	1,217.5 µS/cm	1.44 mg/L	1.64 NTU	135.9 mV	54.58 ft	75.00 ml/min
2/15/2024 10:38 AM	40:00	6.70 pH	15.55 °C	1,202.3 µS/cm	1.57 mg/L	1.12 NTU	137.0 mV	54.58 ft	75.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/14/2024 10:55:04 AM
Project: Plant Wansley Ash Pond
Operator Name: J. Tracy

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: 17.55 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 38 ft** **Estimated Total Volume Pumped: 6.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 49.8 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883561**

Test Notes:
Sample time 1140 weather is sunny 56

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/14/2024 10:55 AM	00:00	5.63 pH	17.09 °C	261.56 µS/cm	3.89 mg/L	6.20 NTU	118.8 mV	17.55 ft	150.00 ml/min
2/14/2024 11:00 AM	05:00	5.78 pH	18.02 °C	291.20 µS/cm	2.43 mg/L	6.04 NTU	117.1 mV	19.18 ft	150.00 ml/min
2/14/2024 11:05 AM	10:00	5.85 pH	18.34 °C	303.73 µS/cm	2.37 mg/L	6.01 NTU	57.9 mV	20.00 ft	150.00 ml/min
2/14/2024 11:10 AM	15:00	5.86 pH	18.55 °C	307.37 µS/cm	2.14 mg/L	4.43 NTU	87.6 mV	20.40 ft	150.00 ml/min
2/14/2024 11:15 AM	20:00	5.87 pH	18.83 °C	309.07 µS/cm	2.05 mg/L	4.02 NTU	49.1 mV	20.65 ft	150.00 ml/min
2/14/2024 11:20 AM	25:00	5.87 pH	18.92 °C	308.83 µS/cm	1.99 mg/L	4.04 NTU	95.0 mV	21.05 ft	150.00 ml/min
2/14/2024 11:25 AM	30:00	5.86 pH	19.18 °C	307.10 µS/cm	1.97 mg/L	4.07 NTU	46.1 mV	21.25 ft	150.00 ml/min
2/14/2024 11:30 AM	35:00	5.86 pH	19.24 °C	304.04 µS/cm	1.94 mg/L	3.19 NTU	70.7 mV	21.50 ft	150.00 ml/min
2/14/2024 11:35 AM	40:00	5.86 pH	18.89 °C	303.11 µS/cm	1.94 mg/L	2.95 NTU	40.6 mV	21.60 ft	150.00 ml/min
2/14/2024 11:40 AM	45:00	5.84 pH	19.46 °C	301.59 µS/cm	1.92 mg/L	2.58 NTU	66.3 mV	21.70 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/15/2024 10:25:05 AM
Project: Plant Wansley Ash Pond
Operator Name: J. Tracy

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: 32.85 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 48 ft** **Estimated Total Volume Pumped: 3.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 6.6 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883561**

Test Notes:
Sample time 1050 weather is sunny 55

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/15/2024 10:25 AM	00:00	5.67 pH	15.78 °C	76.80 µS/cm	5.64 mg/L	1.96 NTU	127.5 mV	32.85 ft	150.00 ml/min
2/15/2024 10:30 AM	05:00	5.64 pH	16.12 °C	75.83 µS/cm	4.75 mg/L	1.83 NTU	89.2 mV	33.40 ft	150.00 ml/min
2/15/2024 10:35 AM	10:00	5.63 pH	16.26 °C	75.24 µS/cm	4.30 mg/L	1.74 NTU	124.3 mV	33.40 ft	150.00 ml/min
2/15/2024 10:40 AM	15:00	5.62 pH	16.57 °C	74.60 µS/cm	4.03 mg/L	1.05 NTU	120.2 mV	33.40 ft	150.00 ml/min
2/15/2024 10:45 AM	20:00	5.61 pH	16.78 °C	74.68 µS/cm	3.91 mg/L	1.07 NTU	116.9 mV	33.40 ft	150.00 ml/min
2/15/2024 10:50 AM	25:00	5.62 pH	17.10 °C	73.93 µS/cm	3.79 mg/L	1.11 NTU	113.5 mV	33.40 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/14/2024 2:30:45 PM
Project: Plant Wansley Ash Pond
Operator Name: J. Berisford

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: 12.88 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 35 ft** **Estimated Total Volume Pumped: 13.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 3 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080306**

Test Notes:
Sunny, sample time 1530

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.5	
2/14/2024 2:30 PM	00:00	6.05 pH	24.84 °C	145.57 µS/cm	8.47 mg/L	1.02 NTU	62.1 mV	12.88 ft	225.00 ml/min
2/14/2024 2:35 PM	05:00	4.81 pH	19.31 °C	192.43 µS/cm	2.46 mg/L	1.21 NTU	101.4 mV	13.00 ft	225.00 ml/min
2/14/2024 2:40 PM	10:00	4.80 pH	18.96 °C	195.75 µS/cm	1.51 mg/L	5.12 NTU	93.7 mV	13.10 ft	225.00 ml/min
2/14/2024 2:45 PM	15:00	4.79 pH	18.91 °C	196.41 µS/cm	1.19 mg/L	10.00 NTU	93.2 mV	13.10 ft	225.00 ml/min
2/14/2024 2:50 PM	20:00	4.79 pH	19.05 °C	197.26 µS/cm	1.08 mg/L	11.00 NTU	93.1 mV	13.10 ft	225.00 ml/min
2/14/2024 2:55 PM	25:00	4.80 pH	19.10 °C	196.51 µS/cm	1.02 mg/L	8.92 NTU	92.6 mV	13.10 ft	225.00 ml/min
2/14/2024 3:00 PM	30:00	4.79 pH	19.21 °C	197.12 µS/cm	1.00 mg/L	8.27 NTU	92.2 mV	13.10 ft	225.00 ml/min
2/14/2024 3:05 PM	35:00	4.79 pH	19.22 °C	197.61 µS/cm	0.97 mg/L	6.90 NTU	92.2 mV	13.10 ft	225.00 ml/min
2/14/2024 3:15 PM	45:01	4.71 pH	18.79 °C	202.33 µS/cm	3.04 mg/L	3.90 NTU	112.5 mV	13.10 ft	225.00 ml/min
2/14/2024 3:20 PM	50:01	4.70 pH	19.70 °C	200.62 µS/cm	0.96 mg/L	4.11 NTU	120.9 mV	13.10 ft	225.00 ml/min
2/14/2024 3:25 PM	55:01	4.72 pH	19.58 °C	204.61 µS/cm	0.94 mg/L	3.76 NTU	99.8 mV	13.10 ft	225.00 ml/min
2/14/2024 3:30 PM	01:00:01	4.72 pH	19.31 °C	210.13 µS/cm	0.94 mg/L	3.79 NTU	98.0 mV	13.10 ft	225.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/15/2024 12:00:06 PM
Project: Plant Wansley Ash Pond
Operator Name: J. Tracy

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: 15.98 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 34 ft** **Estimated Total Volume Pumped: 18 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 5.04 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883561**

Test Notes:
Sample time 1330 weather is sunny 64

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/15/2024 12:00 PM	00:00	6.24 pH	16.69 °C	269.83 µS/cm	4.96 mg/L	11.00 NTU	34.4 mV	15.98 ft	200.00 ml/min
2/15/2024 12:05 PM	05:00	6.34 pH	16.74 °C	239.68 µS/cm	1.42 mg/L	78.40 NTU	21.3 mV	16.12 ft	200.00 ml/min
2/15/2024 12:10 PM	10:00	6.37 pH	16.84 °C	235.22 µS/cm	0.59 mg/L	50.60 NTU	21.0 mV	16.35 ft	200.00 ml/min
2/15/2024 12:15 PM	15:00	6.38 pH	16.87 °C	237.41 µS/cm	0.30 mg/L	45.40 NTU	17.9 mV	16.40 ft	200.00 ml/min
2/15/2024 12:20 PM	20:00	6.38 pH	16.92 °C	238.25 µS/cm	0.24 mg/L	39.00 NTU	16.4 mV	16.40 ft	200.00 ml/min
2/15/2024 12:25 PM	25:00	6.35 pH	16.98 °C	237.59 µS/cm	0.22 mg/L	34.60 NTU	17.1 mV	16.40 ft	200.00 ml/min
2/15/2024 12:30 PM	30:00	6.35 pH	16.91 °C	236.77 µS/cm	0.22 mg/L	28.20 NTU	15.5 mV	16.40 ft	200.00 ml/min
2/15/2024 12:35 PM	35:00	6.34 pH	16.92 °C	236.28 µS/cm	0.21 mg/L	24.00 NTU	14.6 mV	16.40 ft	200.00 ml/min
2/15/2024 12:40 PM	40:00	6.33 pH	16.96 °C	236.31 µS/cm	0.21 mg/L	21.70 NTU	14.5 mV	16.40 ft	200.00 ml/min
2/15/2024 12:45 PM	45:00	6.32 pH	16.93 °C	235.45 µS/cm	0.20 mg/L	18.60 NTU	14.3 mV	16.40 ft	200.00 ml/min
2/15/2024 12:50 PM	50:00	6.30 pH	16.92 °C	234.52 µS/cm	0.20 mg/L	15.20 NTU	15.0 mV	16.40 ft	200.00 ml/min
2/15/2024 12:55 PM	55:00	6.31 pH	17.00 °C	234.27 µS/cm	0.20 mg/L	13.70 NTU	14.8 mV	16.40 ft	200.00 ml/min
2/15/2024 1:00 PM	01:00:00	6.30 pH	16.97 °C	233.45 µS/cm	0.19 mg/L	11.70 NTU	15.1 mV	16.40 ft	200.00 ml/min
2/15/2024 1:05 PM	01:05:00	6.29 pH	17.01 °C	233.15 µS/cm	0.19 mg/L	11.10 NTU	15.9 mV	16.40 ft	200.00 ml/min

2/15/2024 1:10 PM	01:10:00	6.29 pH	17.04 °C	232.17 µS/cm	0.19 mg/L	10.80 NTU	16.4 mV	16.40 ft	200.00 ml/min
2/15/2024 1:15 PM	01:15:00	6.28 pH	17.09 °C	231.12 µS/cm	0.20 mg/L	9.33 NTU	17.2 mV	16.40 ft	200.00 ml/min
2/15/2024 1:20 PM	01:20:00	6.27 pH	17.13 °C	230.79 µS/cm	0.19 mg/L	8.49 NTU	18.4 mV	16.40 ft	200.00 ml/min
2/15/2024 1:25 PM	01:25:00	6.26 pH	17.23 °C	229.56 µS/cm	0.19 mg/L	6.42 NTU	19.0 mV	16.40 ft	200.00 ml/min
2/15/2024 1:30 PM	01:30:00	6.24 pH	17.19 °C	229.37 µS/cm	0.19 mg/L	4.86 NTU	20.7 mV	16.40 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/15/2024 12:20:03 PM
Project: Plant Wansley Ash Pond
Operator Name: A. Schnittker

Location Name: WGWC-27 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 32.1 ft** **Total Depth: 42.18 ft** **Initial Depth to Water: 10.17 ft**	**Pump Type: Ded. Bladder Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 37 ft** **Estimated Total Volume Pumped: 22 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 275 ml/min** **Final Draw Down: 125 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Sample time 1340. Sunny 60s. FD-02 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/15/2024 12:20 PM	00:00	6.85 pH	18.42 °C	488.61 µS/cm	0.39 mg/L	5.96 NTU	-34.9 mV	10.17 ft	275.00 ml/min
2/15/2024 12:25 PM	05:00	6.83 pH	18.46 °C	462.22 µS/cm	0.33 mg/L	3.55 NTU	-33.7 mV	15.00 ft	275.00 ml/min
2/15/2024 12:30 PM	10:00	6.77 pH	18.87 °C	419.37 µS/cm	0.50 mg/L	1.02 NTU	-25.8 mV	15.80 ft	275.00 ml/min
2/15/2024 12:35 PM	15:00	6.68 pH	18.79 °C	370.51 µS/cm	0.78 mg/L	1.09 NTU	-20.5 mV	15.90 ft	275.00 ml/min
2/15/2024 12:40 PM	20:00	6.61 pH	18.67 °C	325.34 µS/cm	1.14 mg/L	0.71 NTU	-8.0 mV	16.80 ft	275.00 ml/min
2/15/2024 12:45 PM	25:00	6.56 pH	18.68 °C	309.45 µS/cm	1.24 mg/L	2.82 NTU	5.8 mV	17.20 ft	275.00 ml/min
2/15/2024 12:50 PM	30:00	6.53 pH	18.60 °C	265.66 µS/cm	1.47 mg/L	1.07 NTU	15.7 mV	17.50 ft	275.00 ml/min
2/15/2024 12:55 PM	35:00	6.50 pH	18.62 °C	243.16 µS/cm	1.97 mg/L	0.53 NTU	23.2 mV	18.00 ft	275.00 ml/min
2/15/2024 1:00 PM	40:00	6.46 pH	18.42 °C	212.00 µS/cm	2.19 mg/L	0.91 NTU	34.2 mV	18.60 ft	275.00 ml/min
2/15/2024 1:05 PM	45:00	6.42 pH	18.42 °C	190.24 µS/cm	2.35 mg/L	0.97 NTU	44.8 mV	19.30 ft	275.00 ml/min
2/15/2024 1:10 PM	50:00	6.37 pH	18.32 °C	173.33 µS/cm	3.30 mg/L	0.93 NTU	53.7 mV	19.60 ft	275.00 ml/min
2/15/2024 1:15 PM	55:00	6.34 pH	18.26 °C	160.01 µS/cm	3.35 mg/L	0.85 NTU	55.8 mV	19.90 ft	275.00 ml/min
2/15/2024 1:20 PM	01:00:00	6.32 pH	18.20 °C	154.16 µS/cm	3.41 mg/L	1.57 NTU	64.4 mV	20.50 ft	275.00 ml/min
2/15/2024 1:25 PM	01:05:00	6.29 pH	18.30 °C	144.99 µS/cm	3.45 mg/L	0.39 NTU	63.3 mV	20.50 ft	275.00 ml/min
2/15/2024 1:30 PM	01:10:00	6.25 pH	18.23 °C	137.82 µS/cm	3.51 mg/L	0.57 NTU	74.2 mV	20.60 ft	275.00 ml/min

2/15/2024 1:35 PM	01:15:00	6.23 pH	18.20 °C	136.57 µS/cm	3.50 mg/L	0.31 NTU	77.0 mV	20.60 ft	275.00 ml/min
2/15/2024 1:40 PM	01:20:00	6.23 pH	18.20 °C	131.66 µS/cm	3.46 mg/L	0.42 NTU	71.4 mV	20.60 ft	275.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 2/14/2024 10:10:20 AM
Project: Plant Wansley Ash Pond
Operator Name: J. Berisford

Location Name: WGWC-28D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 200.2 ft** **Total Depth: 210.2 ft** **Initial Depth to Water: 31.49 ft**	**Pump Type: Dedicated bladder pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 205 ft** **Estimated Total Volume Pumped: 30.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 316 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080306**

Test Notes:
Sunny, sample time-1220

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
2/14/2024 10:10 AM	00:00	6.57 pH	20.92 °C	5.38 µS/cm	8.86 mg/L	3.11 NTU	241.1 mV	31.49 ft	200.00 ml/min
2/14/2024 10:15 AM	05:00	6.52 pH	15.20 °C	2,111.0 µS/cm	7.08 mg/L	2.73 NTU	157.4 mV	32.00 ft	200.00 ml/min
2/14/2024 10:20 AM	10:00	6.28 pH	17.17 °C	2,259.7 µS/cm	1.27 mg/L	5.01 NTU	114.9 mV	33.10 ft	250.00 ml/min
2/14/2024 10:25 AM	15:00	6.43 pH	18.26 °C	2,574.4 µS/cm	1.67 mg/L	4.11 NTU	81.3 mV	34.40 ft	250.00 ml/min
2/14/2024 10:30 AM	20:00	6.33 pH	18.34 °C	2,425.8 µS/cm	0.63 mg/L	4.06 NTU	66.8 mV	36.10 ft	250.00 ml/min
2/14/2024 10:35 AM	25:00	6.37 pH	18.33 °C	2,386.1 µS/cm	0.46 mg/L	3.99 NTU	50.1 mV	38.60 ft	250.00 ml/min
2/14/2024 10:40 AM	30:00	6.39 pH	18.30 °C	2,403.2 µS/cm	0.45 mg/L	3.87 NTU	38.2 mV	40.00 ft	250.00 ml/min
2/14/2024 10:45 AM	35:00	6.40 pH	18.25 °C	2,413.6 µS/cm	0.47 mg/L	3.78 NTU	26.9 mV	41.10 ft	250.00 ml/min
2/14/2024 10:50 AM	40:00	6.41 pH	18.15 °C	2,428.5 µS/cm	0.50 mg/L	3.33 NTU	17.8 mV	42.40 ft	250.00 ml/min
2/14/2024 10:55 AM	45:00	6.41 pH	18.09 °C	2,438.1 µS/cm	0.53 mg/L	3.38 NTU	11.1 mV	43.90 ft	250.00 ml/min
2/14/2024 11:00 AM	50:00	6.41 pH	18.06 °C	2,432.6 µS/cm	0.54 mg/L	2.11 NTU	6.1 mV	45.20 ft	250.00 ml/min
2/14/2024 11:05 AM	55:00	6.42 pH	18.07 °C	2,430.9 µS/cm	0.55 mg/L	2.42 NTU	1.1 mV	46.80 ft	250.00 ml/min
2/14/2024 11:10 AM	01:00:00	6.43 pH	18.09 °C	2,416.6 µS/cm	0.55 mg/L	2.64 NTU	-3.8 mV	47.40 ft	250.00 ml/min
2/14/2024 11:15 AM	01:05:00	6.43 pH	18.17 °C	2,403.5 µS/cm	0.55 mg/L	2.88 NTU	-9.3 mV	48.50 ft	250.00 ml/min

2/14/2024 11:20 AM	01:10:00	6.44 pH	18.24 °C	2,385.4 µS/cm	0.54 mg/L	3.17 NTU	-13.4 mV	49.80 ft	250.00 ml/min
2/14/2024 11:25 AM	01:15:00	6.45 pH	18.37 °C	2,366.0 µS/cm	0.53 mg/L	3.42 NTU	-17.7 mV	50.40 ft	250.00 ml/min
2/14/2024 11:30 AM	01:20:00	6.45 pH	18.56 °C	2,339.3 µS/cm	0.53 mg/L	3.40 NTU	-20.6 mV	51.60 ft	250.00 ml/min
2/14/2024 11:35 AM	01:25:00	6.46 pH	18.55 °C	2,312.6 µS/cm	0.52 mg/L	3.23 NTU	-23.1 mV	52.80 ft	250.00 ml/min
2/14/2024 11:40 AM	01:30:00	6.47 pH	18.60 °C	2,293.5 µS/cm	0.50 mg/L	3.48 NTU	-27.0 mV	53.50 ft	250.00 ml/min
2/14/2024 11:45 AM	01:35:00	6.48 pH	18.67 °C	2,276.4 µS/cm	0.51 mg/L	2.98 NTU	-30.8 mV	54.20 ft	250.00 ml/min
2/14/2024 11:50 AM	01:40:00	6.49 pH	18.77 °C	2,251.2 µS/cm	0.51 mg/L	3.07 NTU	-33.7 mV	55.70 ft	250.00 ml/min
2/14/2024 11:55 AM	01:45:00	6.50 pH	18.78 °C	2,228.7 µS/cm	0.50 mg/L	3.43 NTU	-36.0 mV	56.50 ft	250.00 ml/min
2/14/2024 12:00 PM	01:50:00	6.50 pH	18.82 °C	2,212.2 µS/cm	0.50 mg/L	3.47 NTU	-37.3 mV	57.60 ft	250.00 ml/min
2/14/2024 12:05 PM	01:55:00	6.51 pH	18.82 °C	2,185.0 µS/cm	0.49 mg/L	3.42 NTU	-39.0 mV	57.90 ft	150.00 ml/min
2/14/2024 12:10 PM	02:00:00	6.51 pH	18.74 °C	2,160.4 µS/cm	0.51 mg/L	3.14 NTU	-38.6 mV	57.90 ft	150.00 ml/min
2/14/2024 12:15 PM	02:05:00	6.51 pH	18.96 °C	2,157.4 µS/cm	0.48 mg/L	2.48 NTU	-39.6 mV	57.90 ft	150.00 ml/min
2/14/2024 12:20 PM	02:10:00	6.47 pH	19.00 °C	2,252.8 µS/cm	0.49 mg/L	2.54 NTU	-35.7 mV	57.90 ft	150.00 ml/min

Samples

Sample ID:	Description:

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	1080307
Created	2/13/2024

Sensor	**RDO**
Serial Number	1079634
Last Calibrated	2/13/2024

Calibration Details

Slope	0.9985974
Offset	-0.00 mg/L

Calibration point 100%

Concentration	11.93 mg/L
Temperature	6.73 °C
Barometric Pressure	990.91 mbar

Sensor	**Conductivity**
Serial Number	1080307
Last Calibrated	2/13/2024

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.778
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	1080277
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22511
Last Calibrated	2/13/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	144.6 mV
Temperature	6.64 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-19.6 mV
Temperature	6.57 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-184.0 mV
Temperature	6.57 °C

Slope and Offset 1

Slope	-53.65 mV/pH
Offset	-16.4 mV

Slope and Offset 2

Slope	-53.37 mV/pH
Offset	-16.4 mV

ORP

ORP Solution	Zobell's
Offset	8.7 mV
Temperature	6.26 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	1080307
Created	2/16/2024

Sensor	**RDO**
Serial Number	1079634
Last Calibrated	2/16/2024

Calibration Details

Slope	0.9945818
Offset	-0.00 mg/L

Calibration point 100%

Concentration	11.50 mg/L
Temperature	8.46 °C
Barometric Pressure	989.56 mbar

Sensor	**Conductivity**
Serial Number	1080307
Last Calibrated	2/15/2024

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.722
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	1080277
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22511
Last Calibrated	2/15/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	137.6 mV
Temperature	17.40 °C

Calibration Point 2

pH of Buffer	7.04 pH
pH mV	-24.7 mV
Temperature	16.64 °C

Calibration Point 3

pH of Buffer	10.11 pH
pH mV	-188.0 mV
Temperature	17.02 °C

Slope and Offset 1

Slope	-53.4 mV/pH
Offset	-22.6 mV

Slope and Offset 2

Slope	-53.17 mV/pH
Offset	-22.6 mV

ORP

ORP Solution	Zobell's
Offset	12.4 mV
Temperature	5.50 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	1080307
Created	2/16/2024

Sensor	**RDO**
Serial Number	1079634
Last Calibrated	2/16/2024

Calibration Details

Slope	0.9945818
Offset	-0.00 mg/L

Calibration point 100%

Concentration	11.50 mg/L
Temperature	8.46 °C
Barometric Pressure	989.56 mbar

Sensor	**Conductivity**
Serial Number	1080307
Last Calibrated	2/16/2024

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.683
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	1080277
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22511
Last Calibrated	2/16/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	138.4 mV
Temperature	8.91 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-26.2 mV
Temperature	8.94 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-191.9 mV
Temperature	8.87 °C

Slope and Offset 1

Slope	-53.78 mV/pH
Offset	-22.9 mV

Slope and Offset 2

Slope	-53.81 mV/pH
Offset	-22.9 mV

ORP

ORP Solution	Zobell's
Offset	14.5 mV
Temperature	8.87 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	883546
Created	2/13/2024

Sensor	**RDO**
Serial Number	884416
Last Calibrated	2/13/2024

Calibration Details

Slope	1.0161883
Offset	-0.00 mg/L

Calibration point 100%

Concentration	11.05 mg/L
Temperature	9.24 °C
Barometric Pressure	990.25 mbar

Sensor	**Conductivity**
Serial Number	883546
Last Calibrated	2/13/2024

Calibration Details

Cell Constant	0.931
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	879610
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	20579
Last Calibrated	2/13/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	150.5 mV
Temperature	9.03 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-5.8 mV
Temperature	8.54 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-176.1 mV
Temperature	8.82 °C

Slope and Offset 1

Slope	-51.05 mV/pH
Offset	-2.7 mV

Slope and Offset 2

Slope	-55.31 mV/pH
Offset	-2.4 mV

ORP

ORP Solution	Zobell's
Offset	14.1 mV
Temperature	8.69 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	883546
Created	2/15/2024

Sensor	**RDO**
Serial Number	884416
Last Calibrated	2/15/2024

Calibration Details

Slope	0.9925036
Offset	-0.00 mg/L

Calibration point 100%

Concentration	11.93 mg/L
Temperature	7.39 °C
Barometric Pressure	998.27 mbar

Sensor	**Conductivity**
Serial Number	883546
Last Calibrated	2/15/2024

Calibration Details

Cell Constant	0.966
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	879610
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	20579
Last Calibrated	2/15/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	146.1 mV
Temperature	6.95 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-7.5 mV
Temperature	7.19 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-181.5 mV
Temperature	6.80 °C

Slope and Offset 1

Slope	-50.2 mV/pH
Offset	-4.5 mV

Slope and Offset 2

Slope	-56.49 mV/pH
Offset	-4.1 mV

ORP

ORP Solution	Zobell's
Offset	13.6 mV
Temperature	7.10 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	883546
Created	2/16/2024

Sensor	**RDO**
Serial Number	884416
Last Calibrated	2/16/2024

Calibration Details

Slope	0.9904514
Offset	-0.00 mg/L

Calibration point 100%

Concentration	11.38 mg/L
Temperature	8.92 °C
Barometric Pressure	986.72 mbar

Sensor	**Conductivity**
Serial Number	883546
Last Calibrated	2/16/2024

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.859
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	879610
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	20579
Last Calibrated	2/16/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	144.8 mV
Temperature	11.19 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-4.7 mV
Temperature	11.50 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-182.1 mV
Temperature	11.12 °C

Slope and Offset 1

Slope	-48.86 mV/pH
Offset	-1.8 mV

Slope and Offset 2

Slope	-57.59 mV/pH
Offset	-1.3 mV

ORP

ORP Solution	Zobell's
Offset	17.9 mV
Temperature	11.45 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	1080306
Created	2/13/2024

Sensor	**RDO**
Serial Number	1078482
Last Calibrated	2/13/2024

Calibration Details

Slope	1.1017482
Offset	-0.00 mg/L

Calibration point 100%

Concentration	9.13 mg/L
Temperature	14.10 °C
Barometric Pressure	991.54 mbar

Sensor	**Conductivity**
Serial Number	1080306
Last Calibrated	2/13/2024

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.864
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	1081454
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22515
Last Calibrated	2/13/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	149.1 mV
Temperature	13.27 °C

Calibration Point 2

pH of Buffer	7.04 pH
pH mV	-24.1 mV
Temperature	12.75 °C

Calibration Point 3

pH of Buffer	10.11 pH
pH mV	-179.7 mV
Temperature	12.97 °C

Slope and Offset 1

Slope	-56.99 mV/pH
Offset	-21.8 mV

Slope and Offset 2

Slope	-50.69 mV/pH
Offset	-22.1 mV

ORP

ORP Solution	Zobell's
Offset	22.2 mV
Temperature	12.34 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	1080306
Created	2/14/2024

Sensor	**RDO**
Serial Number	1078482
Last Calibrated	2/14/2024

Calibration Details

Slope	1.0934043
Offset	-0.00 mg/L

Calibration point 100%

Concentration	8.94 mg/L
Temperature	15.78 °C
Barometric Pressure	999.08 mbar

Sensor	**Conductivity**
Serial Number	1080306
Last Calibrated	2/14/2024

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.862
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	1081454
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22515
Last Calibrated	2/14/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	156.4 mV
Temperature	13.20 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-30.5 mV
Temperature	11.39 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-169.9 mV
Temperature	11.91 °C

Slope and Offset 1

Slope	-61.08 mV/pH
Offset	-26.8 mV

Slope and Offset 2

Slope	-45.25 mV/pH
Offset	-27.8 mV

ORP

ORP Solution	Zobell's
Offset	27.2 mV
Temperature	11.75 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	1080306
Created	2/14/2024

Sensor	**RDO**
Serial Number	1078482
Last Calibrated	2/14/2024

Calibration Details

Slope	1.0934043
Offset	-0.00 mg/L

Calibration point 100%

Concentration	8.94 mg/L
Temperature	15.78 °C
Barometric Pressure	999.08 mbar

Sensor	**Conductivity**
Serial Number	1080306
Last Calibrated	2/14/2024

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.862
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	1081454
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22515
Last Calibrated	2/14/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	157.3 mV
Temperature	18.96 °C

Calibration Point 2

pH of Buffer	7.02 pH
pH mV	-30.5 mV
Temperature	19.01 °C

Calibration Point 3

pH of Buffer	10.05 pH
pH mV	-190.6 mV
Temperature	19.14 °C

Slope and Offset 1

Slope	-62.17 mV/pH
Offset	-29.2 mV

Slope and Offset 2

Slope	-52.86 mV/pH
Offset	-29.4 mV

ORP

ORP Solution	Zobell's
Offset	27.2 mV
Temperature	11.75 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	883561
Created	2/13/2024

Sensor	**RDO**
Serial Number	966290
Last Calibrated	2/13/2024

Calibration Details

Slope	1.1441631
Offset	-0.00 mg/L

Calibration point 100%

Concentration	8.68 mg/L
Temperature	14.54 °C
Barometric Pressure	987.92 mbar

Sensor	**Conductivity**
Serial Number	883561
Last Calibrated	2/13/2024

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.876
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	883845
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22462
Last Calibrated	2/13/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	162.9 mV
Temperature	13.63 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-9.2 mV
Temperature	12.28 °C

Calibration Point 3

pH of Buffer	10.11 pH
pH mV	-154.1 mV
Temperature	14.54 °C

Slope and Offset 1

Slope	-56.22 mV/pH
Offset	-5.8 mV

Slope and Offset 2

Slope	-47.51 mV/pH
Offset	-6.3 mV

ORP

ORP Solution	ORP Standard
Offset	3.7 mV
Temperature	14.18 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	883561
Created	2/14/2024

Sensor	**RDO**
Serial Number	966290
Last Calibrated	2/14/2024

Calibration Details

Slope	1.0983655
Offset	-0.00 mg/L

Calibration point 100%

Concentration	9.73 mg/L
Temperature	11.69 °C
Barometric Pressure	997.75 mbar

Sensor	**Conductivity**
Serial Number	883561
Last Calibrated	2/14/2024

Calibration Details

Offset	0.00 µS/cm
Cell Constant	1.141
Reference Temperature	20.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	883845
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22462
Last Calibrated	2/14/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	156.0 mV
Temperature	6.68 °C

Calibration Point 2

pH of Buffer	7.06 pH
pH mV	-11.9 mV
Temperature	6.59 °C

Calibration Point 3

pH of Buffer	10.14 pH
pH mV	-151.3 mV
Temperature	6.65 °C

Slope and Offset 1

Slope	-54.85 mV/pH
Offset	-8.6 mV

Slope and Offset 2

Slope	-45.28 mV/pH
Offset	-9.2 mV

ORP

ORP Solution	ORP Standard
Offset	-11.8 mV
Temperature	7.02 °C

Calibration Report

Instrument	Aqua TROLL 400
Serial Number	883561
Created	2/15/2024

Sensor	**RDO**
Serial Number	966290
Last Calibrated	2/15/2024

Calibration Details

Slope	1.1274542
Offset	-0.00 mg/L

Calibration point 100%

Concentration	10.79 mg/L
Temperature	6.25 °C
Barometric Pressure	996.27 mbar

Sensor	**Conductivity**
Serial Number	883561
Last Calibrated	2/15/2024

Calibration Details

Offset	0.00 µS/cm
Cell Constant	0.912
Reference Temperature	25.00 °C
TDS Conversion Factor (ppm)	0.65

Sensor	**Level**
Serial Number	883845
Last Calibrated	Factory Defaults

Sensor	**pH/ORP**
Serial Number	22462
Last Calibrated	2/15/2024

Calibration Details

Total Calibration Points	3

Calibration Point 1

pH of Buffer	4.00 pH
pH mV	161.7 mV
Temperature	13.31 °C

Calibration Point 2

pH of Buffer	7.04 pH
pH mV	-9.5 mV
Temperature	14.97 °C

Calibration Point 3

pH of Buffer	10.11 pH
pH mV	-151.9 mV
Temperature	14.45 °C

Slope and Offset 1

Slope	-56.31 mV/pH
Offset	-7.2 mV

Slope and Offset 2

Slope	-46.41 mV/pH
Offset	-7.6 mV

ORP

ORP Solution	ORP Standard
Offset	11.2 mV
Temperature	16.96 °C

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Wansley

Date: 2/13/24

Calibrated By: A Schnitker

Field Conditions: Sunny 40s

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua Troll 400	1080307
Turbidity Meter	Hach 2100Q	11090C012353

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	NA	NA	Fresh DI Water
pH (SU)	4.00	36C916	03/25	PINE
pH (SU)	7.00	36D1214	04/25	PINE
pH (SU)	10.00	26K553	11/24	PINE
Specific Conductance (µS/cm)	1,413	36D360	04/24	PINE
ORP (mV)	240.0	36H0038	05/24	PINE

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	NA	NA	Fresh DI Water
	10 ~~A3242~~ ~~A1378~~		10/24	HACH
	~~20~~ 100	A3186	10/24	HACH
	~~100~~ 20	A3187	11/24	HACH

Calibration

Time Start: 0840 Time Finish: 0900

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	98.78	6.73	± 10%	EPA 2023
pH (SU)	4.00	4.00	6.64	± 0.1	GWMP
pH (SU)	7.00	7.06	6.57	± 0.1	GWMP
pH (SU)	10.00	10.14	6.57	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1,413~~ 1284	1280.9	6.60	± 10% of standard	NA
ORP (mV)	240.0 250	253.3	6.21	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.14	± 10% of standard	EPA 2023
	10	10.3		
	20	19.9		
	100	100		

Calibration Check

Time Start 1525 Time Finish 1535

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.04	10.18	± 0.1	GWMP
pH (SU)	7.00	7.01	10.21	± 0.1	GWMP
pH (SU)	10.00	10.06	10.18	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1,413~~ 1284	1281.5	10.17	± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.14	± 10% of standard	EPA 2023
	10	10.1		
	20	20.0		
	100	100		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Wamsley

Date: 2/15/24

Calibrated By: A Schnitker

Field Conditions: Sunny 40s

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 400	1080307
Turbidity Meter	Hach 2100Q	23060D000334

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	NA	NA	Fresh DI Water
pH (SU)	4.00	36C916	03/25	PINE
pH (SU)	7.00	36D1214	04/25	PINE
pH (SU)	10.00	26K553	11/24	PINE
Specific Conductance (µS/cm)	1,413	36D350	04/24	PINE
ORP (mV)	240.0	36H0038	05/24	PINE

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	NA	NA	Fresh DI Water
	10	A3242	11/24	HACH
	20	A3187	10/24	HACH
	100	A3186	10/24	HACH

Calibration					
Time Start: 0950		Time Finish: 1010			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	100.4	6.38	± 10%	EPA 2023
pH (SU)	4.00	4.00	5.94	± 0.1	GWMP
pH (SU)	7.00	7.06	5.30	± 0.1	GWMP
pH (SU)	10.00	10.14	5.53	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1,413~~ 1284	1287.4	5.24	± 10% of standard	NA
ORP (mV)	~~240.0~~ 254	254.4	5.63	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.13	± 10% of standard	EPA 2023
	10	9.95		
	20	19.3		
	100	101		

Calibration Check					
Time Start 1445		Time Finish 1500			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.00	17.64	± 0.1	GWMP
pH (SU)	7.00	7.04	17.94	± 0.1	GWMP
pH (SU)	10.00	10.09	17.09	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1,413~~	1329.0	18.06	± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.18	± 10% of standard	EPA 2023
	10	9.36		
	20	20.3		
	100	101		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Wansley Date: 2/16/24

Calibrated By: A Schnitker Field Conditions: Cloudy 50s

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 400	1080307
Turbidity Meter	Hach 2100Q	23060D000334

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	NA	NA	Fresh DI Water
pH (SU)	4.00	36C916	03/25	PINE
pH (SU)	7.00	36D1214	04/25	PINE
pH (SU)	10.00	26K553	11/24	PINE
Specific Conductance (µS/cm)	1,413	36D350	04/24	PINE
ORP (mV)	240.0	36H0038	05/24	PINE

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	NA	NA	Fresh DI Water
	10	0.A3242	11/24	HACH
	20	A3187	10/24	HACH
	100	A3866	10/24	HACH

Calibration					
Time Start: 0900		Time Finish: ~~0920~~ 0915			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	99.48	8.46	± 10%	EPA 2023
pH (SU)	4.00	4.00	8.91	± 0.1	GWMP
pH (SU)	7.00	7.06	8.94	± 0.1	GWMP
pH (SU)	10.00	10.14	8.87	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1,413~~ 1294	1281.5	8.85	± 10% of standard	NA
ORP (mV)	~~240.0~~ 250	250.0	8.89	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.12	± 10% of standard	EPA 2023
	10	10.1		
	20	20.0		
	100	97.6		

Calibration Check					
Time Start NA		Time Finish NA			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	NA	NA	± 0.1	GWMP
pH (SU)	7.00	|	|	± 0.1	GWMP
pH (SU)	10.00	|	|	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	|	|	± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	NA	± 10% of standard	EPA 2023
	10	|		
	20	|		
	100	|		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Wansley LF/AP Date: 2/13/2024

Calibrated By: D. Johnson Field Conditions: Sunny, wet, 40°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Troll 460	883546
Turbidity Meter	HACH	23060D000290

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	—	—	— New DI
pH (SU)	4.00	3GJ00443	10/25	Pine
pH (SU)	7.00	3GJ00918	10/25	Pine
pH (SU)	10.00	3GJ00441	10/25	Pine
Specific Conductance (µS/cm)	1,413	3GJ3727	10/24	Pine
ORP (mV)	240.0	3GL04004	9/24	Pine

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	—	—	New DI —
	10	A3173	9/24	HACH
	20	A3187	10/24	HACH
	100	A3186	10/24	HACH

Calibration					
Time Start: 0830		**Time Finish:** 0845			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.1	9.24	± 10%	EPA 2023
pH (SU)	4.00	4.00	9.03	± 0.1	GWMP
pH (SU)	7.00	7.06	8.54	± 0.1	GWMP
pH (SU)	10.00	10.14	8.82	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1500	6.98	± 10% of standard	NA
ORP (mV)	240.0	250.0	8.80	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.19	± 10% of standard	EPA 2023
	10	10.7		
	20	20.2		
	100	99.5		

Calibration Check					
Time Start 1220		**Time Finish** 1230			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.00	10.21	± 0.1	GWMP
pH (SU)	7.00	7.02	10.19	± 0.1	GWMP
pH (SU)	10.00	~~10.03~~ 10.03	10.22	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1420	9.97	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.15	± 10% of standard	EPA 2023
	10	10.2		
	20	20.1		
	100	100.1		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant Wansley AP/LF Date: 2/15/24

Calibrated By: D. Swanson Field Conditions: Sunny, 42°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Troll 9000	483546
Turbidity Meter	HACH	23060D000240

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	36T50043	—	New OI
pH (SU)	4.00	36J50448	10/25	YSI
pH (SU)	7.00	36J50433	10/25	YSI
pH (SU)	10.00	36J57277	10/25	YSI
Specific Conductance (µS/cm)	1,413	36T50041	10/24	YSI
ORP (mV)	240.0	36L0404	9/24	YSI

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	—	—	New OI
	10	A3173	9/24	HACH
	20	A3187	10/24	HACH
	100	A3186	10/24	HACH

Calibration					
Time Start: 0900		**Time Finish:** 0920			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.75	7.39	± 10%	EPA 2023
pH (SU)	4.00	4.00	6.95	± 0.1	GWMP
pH (SU)	7.00	7.06	7.19	± 0.1	GWMP
pH (SU)	10.00	10.14	6.80	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1400	6.99	± 10% of standard	NA
ORP (mV)	240.0	252.1		± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.19	± 10% of standard	EPA 2023
	10	10.4		
	20	19.8		
	100	97.2		

Calibration Check					
Time Start 1230		**Time Finish** 1245			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.01	11.9	± 0.1	GWMP
pH (SU)	7.00	7.04	12.1	± 0.1	GWMP
pH (SU)	10.00	10.03	12.0	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1410	12.2	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.21	± 10% of standard	EPA 2023
	10	10.1		
	20	20.3		
	100	100		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Wansley AP

Date: 2/16/24

Calibrated By: D. JOHNSON

Field Conditions: Sunny, 41°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	TRUII 400	883546
Turbidity Meter	HACH	230600D00029C

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	—	—	—
pH (SU)	4.00	3GJ0043	10/25	Pine
pH (SU)	7.00	3GJ0918	10/25	|
pH (SU)	10.00	3GJ004	10/25	|
Specific Conductance (µS/cm)	1,413	3GJ727	10/24	|
ORP (mV)	240.0	3GED404	9/24	|

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	—	—	—
	10	A3173	9/24	HACH
	20	A3187	10/24	|
	100	A3186	10/24	|

Calibration					
Time Start: 0805		**Time Finish:** 0815			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.18	8.73	± 10%	EPA 2023
pH (SU)	4.00	4.00	11.07	± 0.1	GWMP
pH (SU)	7.00	7.01	11.49	± 0.1	GWMP
pH (SU)	10.00	10.09	11.08	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413.7	10.2	± 10% of standard	NA
ORP (mV)	240.0	242	11.45	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.17	± 10% of standard	EPA 2023
	10	10.1		
	20	20.0		
	100	101		

Calibration Check					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0		± 10% of standard	EPA 2023
	10			
	20			
	100			

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Wensley AP

Date: 2/13/24

Calibrated By: J. Benisford

Field Conditions: Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll	1080306
Turbidity Meter	HAACH2100Q	1504000404 90

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	N/A	DI H_2O	—
pH (SU)	4.00	3651090	10/25	Pine
pH (SU)	7.00	3650918	10/25	Pine
pH (SU)	10.00	3660538	7 ~~10~~/25	Pine
Specific Conductance (µS/cm)	1,413	3650727	10/24	Pine
ORP (mV)	240.0	36L040	8/24	Pine

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	N/A	DI H_2O	—
	10	A3292	11/24	HACH
	20	A3261	12/24	HACH
	100	A3256	12/24	HACH

Calibration					
Time Start: 0915		Time Finish: 0932			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	100.7	14.10	± 10%	EPA 2023
pH (SU)	4.00	4.00	13.27	± 0.1	GWMP
pH (SU)	7.00	7.04	12.75	± 0.1	GWMP
pH (SU)	10.00	10.11	12.97	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1,413~~ 1284	1282	12.31	± 10% of standard	NA
ORP (mV)	~~240.0~~ 236	240	12.33	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.07	± 10% of standard	EPA 2023
	10	~~19~~ 9.32		
	20	19.0		
	100	99.4		

Calibration Check					
Time Start 1234		Time Finish 1248			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.02	15.74	± 0.1	GWMP
pH (SU)	7.00	7.09	15.82	± 0.1	GWMP
pH (SU)	10.00	9.93	15.88	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1,413~~ 1284	1339	15.32	± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	6.10	± 10% of standard	EPA 2023
	10	10.09		
	20	20.0		
	100	102		

pH	Real	Temp
4.00	4.00	18.96
7.00	7.02	19.01
1000	10.05	19.14

Notes:

Field Instrumentation Calibration Form

Atlantic Coast Consulting, Inc.

Site Name: Wansley AP Date: 2/14/24

Calibrated By: J. Berglund Field Conditions: Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua Troll	1080306
Turbidity Meter	HACH 2100Q	15040C040190

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	N/A	DI H2O	—
pH (SU)	4.00	365 1040	10/25	Pine
pH (SU)	7.00	365 0918	10/25	Pine
pH (SU)	10.00	366 0538	7/25	Pine
Specific Conductance (µS/cm)	1,413	365 0727	10/24	Pine
ORP (mV)	240.0	362 040	8/24	Pine

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	N/A	DI H2O	—
	10	A32 92	11/24	HACH
	20	A 3261	12/24	HACH
	100	A3236	12/24	HACH

Calibration					
Time Start: 0921		**Time Finish:** 0935			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.6	19.7	± 10%	EPA 2023
pH (SU)	4.00	4.00	13.20	± 0.1	GWMP
pH (SU)	7.00	7.06	11.39	± 0.1	GWMP
pH (SU)	10.00	10.14	11.91	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1,413~~ 1284	1286	11.21	± 10% of standard	NA
ORP (mV)	~~240.0~~ 246	246	11.84	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.11	± 10% of standard	EPA 2023
	10	9.55		
	20	19.7		
	100	101		

Calibration Check					
Time Start 1232		**Time Finish** 1248			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.07	15.81	± 0.1	GWMP
pH (SU)	7.00	7.05	15.88	± 0.1	GWMP
pH (SU)	10.00	10.08	15.80	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1,413~~ 1284	1322	16.07	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.14	± 10% of standard	EPA 2023
	10	9.91		
	20	19.7		
	100	99.4		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Wansley AP Date: 2/13/24

Calibrated By: J. Tracy Field Conditions: normal, sunny, 44°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquaprobe 400	8835161
Turbidity Meter	Hach 2100 Q	22080000803

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	—	—	Orange
pH (SU)	4.00	3GJ1090	10/25	P.ne
pH (SU)	7.00	3GJ0418	10/25	P.ne
pH (SU)	10.00	2GH903	8/24	P.ne
Specific Conductance (µS/cm)	1,413	3GJ0727	10/24	P.ne
ORP (mV)	240.0	3GC0407	9/24	P.ne

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	—	—	Hach DI
	10	A3139	8/24	Hach
	20	A3144	9/24	Hach
	100	A3142	8/24	Hach

Calibration					
Time Start: ~~1025~~ 1025			**Time Finish:** 1047		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.97	14.54	± 10%	EPA 2023
pH (SU)	4.00	4.00	13.63	± 0.1	GWMP
pH (SU)	7.00	7.00	12.28	± 0.1	GWMP
pH (SU)	10.00	10.11	14.54	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1396.7	15.17	± 10% of standard	NA
ORP (mV)	240.0	239.7	14.58	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.23	± 10% of standard	EPA 2023
	10	10.7		
	20	20.0		
	100	97.9		

Calibration Check					
Time Start 1330			**Time Finish** 1350		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.03	15.04	± 0.1	GWMP
pH (SU)	7.00	7.00	14.63	± 0.1	GWMP
pH (SU)	10.00	10.02	13.28	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1399.2	15.02	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.26	± 10% of standard	EPA 2023
	10	10.4		
	20	20.3		
	100	98.4		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Wansley AP Date: 2/14

Calibrated By: J. Tracy Field Conditions: Sunny 50

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquaread 400	883561
Turbidity Meter	Hach 2100 Q	22080000803

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	—	—	Sponge
pH (SU)	4.00	3GJ1090	10/25	Pine
pH (SU)	7.00	3GJ0918	10/25	Pine
pH (SU)	10.00	2GH1903	8/24	Pine
Specific Conductance (µS/cm)	1,413	3GJ30727	10/24	Pine
ORP (mV)	240.0	3GL0404	9/24	Pine

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	—	—	DI
	10	A3139	8/24	Hach
	20	A3144	9/24	Hach
	100	A3142	8/24	Hach

Calibration					
Time Start: 1020		**Time Finish:** 1038			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	104.4	11.69	± 10%	EPA 2023
pH (SU)	4.00	4.00	6.68	± 0.1	GWMP
pH (SU)	7.00	7.06	6.59	± 0.1	GWMP
pH (SU)	10.00	10.14	6.65	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	~~1278~~ 1411.2 (IT)	7.56	± 10% of standard	NA
ORP (mV)	240.0	239.2	7.02	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.24	± 10% of standard	EPA 2023
	10	10.7		
	20	20.2		
	100	101		

Calibration Check					
Time Start 1210		**Time Finish** 1230			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.06	12.02	± 0.1	GWMP
pH (SU)	7.00	7.02	7.83	± 0.1	GWMP
pH (SU)	10.00	10.04	7.91	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1394.6	7.88	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.26	± 10% of standard	EPA 2023
	10	10.0		
	20	20.1		
	100	99.2		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Wansley Date: 2/15/24

Calibrated By: J. Tracy Field Conditions: Normal, 47

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquaread 400	883561
Turbidity Meter	Hach 2100 Q	22080D000863

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	—	—	Sponge
pH (SU)	4.00	3GV1096	10/25	Pine
pH (SU)	7.00	3GV0918	10/25	Pine
pH (SU)	10.00	2GL903	8/24	Pine
Specific Conductance (µS/cm)	1,413	3GV0727	10/24	Pine
ORP (mV)	240.0	3GL0404	9/24	Pine

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	—	—	DI
	10	A3139	8/24	Hach
	20	A3144	9/24	Hach
	100	A3142	8/24	Hach

Calibration

Time Start: 940 Time Finish: 1004

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	97.51	6.25	± 10%	EPA 2023
pH (SU)	4.00	4.00	13.31	± 0.1	GWMP
pH (SU)	7.00	7.04	14.97	± 0.1	GWMP
pH (SU)	10.00	10.11	14.45	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1408.1	17.23	± 10% of standard	NA
ORP (mV)	240.0	239.9	~~17.36~~ 16.96	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.20	± 10% of standard	EPA 2023
	10	10.3		
	20	19.5		
	100	96.0		

Calibration Check

Time Start 1345 Time Finish 1400

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.02	13.96	± 0.1	GWMP
pH (SU)	7.00	7.06	14.91	± 0.1	GWMP
pH (SU)	10.00	10.01	14.96	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1396.3	17.4	± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.24	± 10% of standard	EPA 2023
	10	10.2		
	20	19.8		
	100	97.1		

Notes:

Field Instrumentation Calibration Form

Atlantic Coast Consulting, Inc.

Site Name: Wamsley NP

Date: 02/14/24

Calibrated By: B Mayhew

Field Conditions: Sunny, 60's

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Solinist	590406
Turbidity Meter	Hach 2100Q	22080100803

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI water	—	—
pH (SU)	4.00	3GE1074	05/25	Pine
pH (SU)	7.00	3GG10945	07/25	Pine
pH (SU)	10.00	2GK7018	07/24	Pine
Specific Conductance (µS/cm)	1,413	3GG11006	07/24	Pine
ORP (mV)	240.0	3GL0404	09/24	Pine

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI water	—	—
	10	A3139	08/24	Hach
	20	A3144	08/24	Hach
	100	A3142	08/24	Hach

Calibration					
Time Start: 0920		**Time Finish:** 0940			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.33	13.68	± 10%	EPA 2023
pH (SU)	4.00	4.00	14.72	± 0.1	GWMP
pH (SU)	7.00	7.04	14.78	± 0.1	GWMP
pH (SU)	10.00	10.11	14.63	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1399.9	14.60	± 10% of standard	NA
ORP (mV)	240.0	241.7	14.80	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.37	± 10% of standard	EPA 2023
	10	10.2		
	20	19.2		
	100	96.6		

Calibration Check					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	N/A	N/A	± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	N/A	± 10% of standard	EPA 2023
	10			
	20			
	100			

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Wamsley AP

Date: 02/15/24

Calibrated By: B. Mayhew

Field Conditions: Sunny, 60's

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Solinist	590406
Turbidity Meter	Hach 2100Q	22080D00803

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	DI water	—	—
pH (SU)	4.00	3GE1074	05/25	Pine
pH (SU)	7.00	3GG0945	07/25	Pine
pH (SU)	10.00	2GG0118	07/24	Pine
Specific Conductance (µS/cm)	1,413	3GG1064	07/24	Pine
ORP (mV)	240.0	3GL0404	07/24	Pine

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	DI water	—	—
	10	A3139	08/24	Hach
	20	A3144	09/24	Hach
	100	A3142	08/24	Hach

Calibration					
Time Start: 0950		**Time Finish:** 1010			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100	21.20	± 10%	EPA 2023
pH (SU)	4.00	4.00	22.88	± 0.1	GWMP
pH (SU)	7.00	7.02	20.40	± 0.1	GWMP
pH (SU)	10.00	10.05	21.29	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1379.0	21.01	± 10% of standard	NA
ORP (mV)	240.0	233.8	21.47	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.110	± 10% of standard	EPA 2023
	10	10.1		
	20	20.0		
	100	99.2		

Calibration Check					
Time Start	N/A	**Time Finish**	N/A		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	N/A	N/A	± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	N/A	± 10% of standard	EPA 2023
	10			
	20			
	100			

Notes:

Plant Wansley Ash Pond

Staff: JB / DS / AS

Start Date: 2/12/24

Start time: 1244

End Date: 2/12/24

End time: 1600

Well ID	Total Depth (ft btoc)	Depth to Water (ft btoc)	
WGWA-1	130.17 129.56	28.80	
WGWA-2	102.39 102.46	6.48	
WGWA-3	18.68	1.63	
WGWA-4	74.31	4.63	
WGWA-5	23.66	6.18	
WGWA-6	104.91	19.78	
WGWA-7	40.04	31.18	
WGWA-18	39.95	21.67	
WGWC-8	59.38	3.74	Telemetry Probe in well
WGWC-9	61.50	20.85	60.83
WGWC-10	148.77	22.35	
WGWC-11	51.22	28.57	
WGWC-12	76.47	27.93	
WGWC-13	95.46	20.32	
WGWC-14		21.21	
WGWC-14A	42.74	22.01	
WGWC-15	56.16	18.60	
WGWC-16	34.50	17.37	
WGWC-17	95.94	29.40	
WGWC-19	94.82	21.45	
WGWC-20	43.17	29.90	

Well ID	Total Depth (ft btoc)	Depth to Water (ft btoc)	
WGWC-21	71.70	50.65	
WGWC-22	43.85	18.28	
WGWC-23	53.80	33.15	
WGWC-24	40.77	12.43	
WGWC-25	39.87	15.05	
WGWC-26D	69.52 ~~30.96~~	30.96	
WGWC-27		10.20	
PZ-1	49.31	38.80	
PZ-4	20.48	6.03	
PZ-6	26.95	26.70	
PZ-8	40.84	30.92	
PZ-10	31.96	26.30	31.98
PZ-11	33.78	28.44	
PZ-12	49.78	31.96	49.42
PZ-15	41.46	33.68	40.80
PZ-16	26.15	11.35	
PZ-17	51.57	38.80	
PZ-18	36.71	17.45	
PZ-20	37.85	19.58	telemetry probe in well
WAMW-1	124.60	22.19	124.25
WAMW-2	86.92	14.8	86.22

Plant Wansley Ash Pond

Staff: JB | AS | DS

Start Date: 2/12/24

End Date: 2/12/24

Start time: 1244

End time: 1600

Well ID	Total Depth (ft btoc)	Depth to Water (ft btoc)
PB-3D	64.42	30.26
PB-3S	41.63	26.21
PB-4D	75.91	26.17
PB-4S	~~75.9~~ 38.17	20.78
PB-5D	68.58	16.80
PB-5S	49.27	16.93
PB-6S	41.42	27.71
PB-6D	83.50	27.51
PB-7	89.16	33.60
LPZ-1		41.81
LPZ-2		27.21
LPZ-3		41.25
LPZ-4		34.415
LPZ-5		45.26
LPZ-6		65.16
LPZ-7		32.79

90.02

Well ID	Total Depth (ft btoc)	Depth to Water (ft btoc)
BB		26.02
DD		24.35
PZ-23D	94.80	50.55
PZ-26D	80.11	12.85
PZ-27D	81.74	16.46
PZ-28	72.96	28.75
PZ-29D	129.57	25.37
PZ-29S	49.95	22.35
WBWC-28D	210.20	32.46

95.82

Plant Wansley Ash Pond

Staff: JB / DS / AS

Start Date: 2/12/24

Start time: 1244

End Date: 2/12/24

End time: 1600

Well ID	Total Depth (ft btoc)	Depth to Water (ft btoc)	
WGWA-1	130.17 129.56	28.80	
WGWA-2	102.39 102.46	6.48	
WGWA-3	18.68	1.63	
WGWA-4	74.31	4.63	
WGWA-5	23.66	6.18	
WGWA-6	104.91	19.78	
WGWA-7	40.04	31.18	
WGWA-18	39.95	21.67	
WGWC-8	59.38	3.74	Telemetry Probe in well
WGWC-9	61.50	20.85	60.83
WGWC-10	148.77	22.35	
WGWC-11	51.22	28.57	
WGWC-12	76.47	27.93	
WGWC-13	95.46	20.32	
WGWC-14		21.21	
WGWC-14A	42.74	22.01	
WGWC-15	56.16	18.60	
WGWC-16	34.50	17.37	
WGWC-17	95.94	29.40	
WGWC-19	94.82	21.45	
WGWC-20	43.17	29.90	

Well ID	Total Depth (ft btoc)	Depth to Water (ft btoc)	
WGWC-21	71.70	50.65	
WGWC-22	43.85	18.28	
WGWC-23	53.80	33.15	
WGWC-24	40.77	12.43	
WGWC-25	39.87	15.05	
WGWC-26D	69.52 ~~30.96~~	30.96	
WGWC-27		10.20	
PZ-1	49.31	38.80	
PZ-4	20.48	6.03	
PZ-6	26.95	26.70	
PZ-8	40.84	30.92	
PZ-10	31.96	26.30	31.98
PZ-11	33.78	28.44	
PZ-12	49.78	31.96	49.42
PZ-15	41.46	33.68	40.80
PZ-16	26.15	11.35	
PZ-17	51.57	38.80	
PZ-18	36.71	17.45	
PZ-20	37.85	19.58	telemetry probe in well
WAMW-1	124.60	22.19	124.25
WAMW-2	86.92	14.8	86.22

Plant Wansley Ash Pond

Staff: JB | AS | DS

Start Date: 2/12/24

End Date: 2/12/24

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Well ID	Total Depth (ft btoc)	Depth to Water (ft btoc)
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PB-3S	41.63	26.21
PB-4D	75.91	26.17
PB-4S	~~75.9~~ 38.17	20.78
PB-5D	68.58	16.80
PB-5S	49.27	16.93
PB-6S	41.42	27.71
PB-6D	83.50	27.51
PB-7	89.16	33.60
LPZ-1		41.81
LPZ-2		27.21
LPZ-3		41.25
LPZ-4		34.415
LPZ-5		45.26
LPZ-6		65.16
LPZ-7		32.79

90.02

Well ID	Total Depth (ft btoc)	Depth to Water (ft btoc)
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PZ-23D	94.80	50.55
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PZ-27D	81.74	16.46
PZ-28	72.96	28.75
PZ-29D	129.57	25.37
PZ-29S	49.95	22.35
WBWC-28D	210.20	32.46

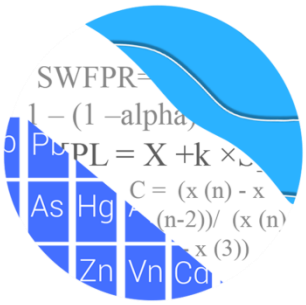
95.82

APPENDIX D

Statistical Analysis Reports

GROUNDWATER STATS CONSULTING

August 30, 2024



Southern Company Services
Attn: Mr. Trey Singleton
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Wansley Ash Pond
February 2024 Statistical Analysis

Dear Mr. Singleton,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2024 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
- **Assessment wells:** WGWC-27, WGWC-28D, and PZ-26D

Note that downgradient wells WGWC-20, WGWC-21, WGWC-22, WGWC-23, WGWC-24, and WGWC-25 were first sampled in March 2021, and data are evaluated for Appendix III and IV constituents.

Assessment wells are evaluated for Appendix IV constituents using confidence intervals when a minimum of 4 samples is available. Well WGWC-27 was first sampled in October 2022 and has sufficient data for evaluation of Appendix IV constituents. Assessment well PZ-26D was first sampled in August 2023 and assessment well WGWC-28D was first sampled in February 2024. These wells do not yet meet the minimum sample requirement for confidence intervals. Therefore, data from these wells are plotted on the time series and box plots and will be evaluated when a minimum of 4 samples is available.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager 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. During this analysis, the February 2024 reported measurement of 0.049 mg/L for chromium in upgradient well WGWA-7 was elevated compared to historical measurements and, therefore, was flagged as an outlier. 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

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. In the case of fluoride, it was noted that the most recent reporting limit for fluoride in upgradient well WGWA-5 was reported as 0.4 mg/L compared to the historical reporting limit of 0.2 mg/L. Therefore, 0.2 mg/L was substituted for all non-detects for fluoride to be consistent with previous analyses.

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, 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 for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

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 – February 2024

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed 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 additional 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 February 2024 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The February 2024 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.

The most recent reporting limit in upgradient well data of 0.08 mg/L is substituted for all non-detects 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, WGWC-16, WGWC-20, WGWC-21, WGWC-22, WGWC-24, and WGWC-25
- Calcium: WGWC-8, WGWC-20, and WGWC-21
- Chloride: WGWC-8, WGWC-16, WGWC-20, WGWC-21, WGWC-24, and WGWC-25
- Fluoride: WGWC-9, WGWC-15, WGWC-19, and WGWC-21
- pH: WGWC-24 (lower limit)
- Sulfate: WGWC-8, WGWC-9, WGWC-16, WGWC-20, WGWC-21, WGWC-22, and WGWC-24
- TDS: WGWC-8, WGWC-20, WGWC-21, and WGWC-22

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 at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site which is an indication of 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: WGWA-1 (upgradient) and WGWC-8
- Chloride: WGWC-8
- Sulfate: WGWA-4 (upgradient), WGWC-8, and WGWC-9
- TDS: WGWA-1 (upgradient) and WGWC-8

Decreasing trends:

- Boron: WGWC-16
- Calcium: WGWA-18 (upgradient)
- Chloride: WGWA-5, WGWA-18 (both upgradient), WGWC-16, and WGWC-24
- Fluoride: WGWC-9
- pH: WGWA-2 and WGWA-18 (both upgradient)
- Sulfate: WGWA-18 (upgradient) and WGWC-16

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 – February 2024

For Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). Downgradient and assessment 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. As mentioned earlier, the highest measurement of 0.049 mg/L for chromium in upgradient well WGWA-7 was flagged as an outlier during this analysis. No other changes were made to previously flagged measurements. A complete list of outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2024 for Appendix IV constituents (Figure F). Parametric tolerance limits are calculated, with a target of 95% confidence and 95% coverage, 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 constructed using the highest background measurement. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

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 February 2024 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 confidence intervals. These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and

percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the appropriate order statistics, depending on the sample size, as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The achievable confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

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 and WGWC-24
- Cobalt: WGWC-24
- Lithium: WGWC-19 and WGWC-20

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing

- Lithium: WGWC-19

Decreasing

- Cobalt: WGWA-1, WGWA-2, WGWA-5, and WGWA-18 (all upgradient)

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,





Kristina Rayner
Senior Statistician

Andrew Collins
Project Manager

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 4/11/2024 4:07 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Antimony (mg/L)
WGWC-10, WGWC-13, WGWC-14A, WGWC-15, WGWC-16, WGWC-17, WGWC-24, WGWC-25, WGWC-28D

Arsenic (mg/L)
PZ-26D, WGWC-19, WGWC-23, WGWC-27

Beryllium (mg/L)
PZ-26D, WGWC-10, WGWC-11, WGWC-12, WGWC-13, WGWC-15, WGWC-17, WGWC-19

Cadmium (mg/L)
PZ-26D, WGWC-11, WGWC-12, WGWC-13, WGWC-14A, WGWC-15, WGWC-17, WGWC-19, WGWC-21, WGWC-23, WGWC-9, WGWC-28D

Chromium (mg/L)
PZ-26D, WGWC-12, WGWC-16, WGWC-17, WGWC-19, WGWC-20, WGWC-22, WGWC-23, WGWC-24, WGWC-25, WGWC-27, WGWC-8, WGWC-28D

Fluoride, total (mg/L)
WGWC-28D

Lead (mg/L)
PZ-26D, WGWC-20, WGWC-21, WGWC-25, WGWC-27

Mercury (mg/L)
PZ-26D, WGWC-27, WGWC-28D

Molybdenum (mg/L)
WGWC-16, WGWC-23, WGWC-24, WGWC-25, WGWC-27, WGWC-8

Selenium (mg/L)
PZ-26D, WGWC-13, WGWC-17, WGWC-21, WGWC-25, WGWC-27, WGWC-28D

Thallium (mg/L)
PZ-26D, WGWC-12, WGWC-13, WGWC-15, WGWC-17, WGWC-20, WGWC-21, WGWC-23, WGWC-25, WGWC-27, WGWC-8, WGWC-9, WGWC-28D

Interwell Prediction Limits - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/11/2024, 4:38 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	2/15/2024	0.74	Yes	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-20	0.1	n/a	2/13/2024	5.6	Yes	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-21	0.1	n/a	2/15/2024	0.14	Yes	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-22	0.1	n/a	2/14/2024	0.33	Yes	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-24	0.1	n/a	2/14/2024	1	Yes	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-25	0.1	n/a	2/15/2024	0.29	Yes	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-8	0.1	n/a	2/13/2024	3	Yes	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-9	0.1	n/a	2/14/2024	0.56	Yes	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	WGWC-20	58	n/a	2/13/2024	210	Yes	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-21	58	n/a	2/15/2024	73	Yes	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-8	58	n/a	2/13/2024	91	Yes	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-16	6.05	n/a	2/15/2024	32	Yes	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-20	6.05	n/a	2/13/2024	230	Yes	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-21	6.05	n/a	2/15/2024	59	Yes	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-24	6.05	n/a	2/14/2024	22	Yes	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-25	6.05	n/a	2/15/2024	12	Yes	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-8	6.05	n/a	2/13/2024	88	Yes	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-15	0.284	n/a	2/15/2024	0.89	Yes	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-19	0.284	n/a	2/15/2024	0.4	Yes	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-21	0.284	n/a	2/15/2024	2.2	Yes	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-9	0.284	n/a	2/14/2024	0.73	Yes	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-24	7.96	4.96	2/14/2024	4.72	Yes	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	2/15/2024	50	Yes	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-20	21	n/a	2/13/2024	280	Yes	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-21	21	n/a	2/15/2024	420	Yes	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-22	21	n/a	2/14/2024	64	Yes	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-24	21	n/a	2/14/2024	55	Yes	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	2/13/2024	190	Yes	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	2/14/2024	37	Yes	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-20	190	n/a	2/13/2024	1200	Yes	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-21	190	n/a	2/15/2024	740	Yes	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-22	190	n/a	2/14/2024	210	Yes	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	2/13/2024	620	Yes	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/11/2024, 4:39 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	2/15/2024	0.08ND	No	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-11	0.1	n/a	2/16/2024	0.08ND	No	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-12	0.1	n/a	2/14/2024	0.08ND	No	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-13	0.1	n/a	2/15/2024	0.08ND	No	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-14A	0.1	n/a	2/15/2024	0.08ND	No	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-15	0.1	n/a	2/15/2024	0.08ND	No	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	**WGWC-16**	**0.1**	**n/a**	**2/15/2024**	**0.74**	**Yes**	**175**	**n/a**	**n/a**	**94.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	WGWC-17	0.1	n/a	2/15/2024	0.027J	No	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-19	0.1	n/a	2/15/2024	0.08ND	No	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	**WGWC-20**	**0.1**	**n/a**	**2/13/2024**	**5.6**	**Yes**	**175**	**n/a**	**n/a**	**94.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**WGWC-21**	**0.1**	**n/a**	**2/15/2024**	**0.14**	**Yes**	**175**	**n/a**	**n/a**	**94.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**WGWC-22**	**0.1**	**n/a**	**2/14/2024**	**0.33**	**Yes**	**175**	**n/a**	**n/a**	**94.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	WGWC-23	0.1	n/a	2/15/2024	0.08ND	No	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	**WGWC-24**	**0.1**	**n/a**	**2/14/2024**	**1**	**Yes**	**175**	**n/a**	**n/a**	**94.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**WGWC-25**	**0.1**	**n/a**	**2/15/2024**	**0.29**	**Yes**	**175**	**n/a**	**n/a**	**94.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**WGWC-8**	**0.1**	**n/a**	**2/13/2024**	**3**	**Yes**	**175**	**n/a**	**n/a**	**94.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**WGWC-9**	**0.1**	**n/a**	**2/14/2024**	**0.56**	**Yes**	**175**	**n/a**	**n/a**	**94.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (NDs) 1 of 2**
Calcium, total (mg/L)	WGWC-10	58	n/a	2/15/2024	7.7	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-11	58	n/a	2/16/2024	1.6	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-12	58	n/a	2/14/2024	13	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-13	58	n/a	2/15/2024	3.7	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-14A	58	n/a	2/15/2024	0.66	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-15	58	n/a	2/15/2024	31	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-16	58	n/a	2/15/2024	20	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-17	58	n/a	2/15/2024	6.2	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-19	58	n/a	2/15/2024	14	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**WGWC-20**	**58**	**n/a**	**2/13/2024**	**210**	**Yes**	**175**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**WGWC-21**	**58**	**n/a**	**2/15/2024**	**73**	**Yes**	**175**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	WGWC-22	58	n/a	2/14/2024	21	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-23	58	n/a	2/15/2024	2.5	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-24	58	n/a	2/14/2024	24	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-25	58	n/a	2/15/2024	29	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**WGWC-8**	**58**	**n/a**	**2/13/2024**	**91**	**Yes**	**175**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	WGWC-9	58	n/a	2/14/2024	9.1	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-10	6.05	n/a	2/15/2024	1.8	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-11	6.05	n/a	2/16/2024	4.3	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-12	6.05	n/a	2/14/2024	2.8	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-13	6.05	n/a	2/15/2024	1.3	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-14A	6.05	n/a	2/15/2024	2.5	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-15	6.05	n/a	2/15/2024	1.4	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	**WGWC-16**	**6.05**	**n/a**	**2/15/2024**	**32**	**Yes**	**175**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	WGWC-17	6.05	n/a	2/15/2024	1.6	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-19	6.05	n/a	2/15/2024	3.5	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	**WGWC-20**	**6.05**	**n/a**	**2/13/2024**	**230**	**Yes**	**175**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**WGWC-21**	**6.05**	**n/a**	**2/15/2024**	**59**	**Yes**	**175**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	WGWC-22	6.05	n/a	2/14/2024	4.1	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-23	6.05	n/a	2/15/2024	3.5	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	**WGWC-24**	**6.05**	**n/a**	**2/14/2024**	**22**	**Yes**	**175**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**WGWC-25**	**6.05**	**n/a**	**2/15/2024**	**12**	**Yes**	**175**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**WGWC-8**	**6.05**	**n/a**	**2/13/2024**	**88**	**Yes**	**175**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	WGWC-9	6.05	n/a	2/14/2024	3.2	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-10	0.284	n/a	2/15/2024	0.2ND	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-11	0.284	n/a	2/16/2024	0.2ND	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-12	0.284	n/a	2/14/2024	0.044J	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-13	0.284	n/a	2/15/2024	0.21J	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/11/2024, 4:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	WGWC-14A	0.284	n/a	2/15/2024	0.2ND	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	**WGWC-15**	**0.284**	**n/a**	**2/15/2024**	**0.89**	**Yes**	**207**	**n/a**	**n/a**	**45.89**	**n/a**	**n/a**	**0.00004908**	**NP Inter (normality) 1 of 2**
Fluoride, total (mg/L)	WGWC-16	0.284	n/a	2/15/2024	0.2ND	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-17	0.284	n/a	2/15/2024	0.2ND	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	**WGWC-19**	**0.284**	**n/a**	**2/15/2024**	**0.4**	**Yes**	**207**	**n/a**	**n/a**	**45.89**	**n/a**	**n/a**	**0.00004908**	**NP Inter (normality) 1 of 2**
Fluoride, total (mg/L)	WGWC-20	0.284	n/a	2/13/2024	0.2ND	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	**WGWC-21**	**0.284**	**n/a**	**2/15/2024**	**2.2**	**Yes**	**207**	**n/a**	**n/a**	**45.89**	**n/a**	**n/a**	**0.00004908**	**NP Inter (normality) 1 of 2**
Fluoride, total (mg/L)	WGWC-22	0.284	n/a	2/14/2024	0.23	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-23	0.284	n/a	2/15/2024	0.2ND	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-24	0.284	n/a	2/14/2024	0.2ND	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-25	0.284	n/a	2/15/2024	0.2ND	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-8	0.284	n/a	2/13/2024	0.2ND	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	**WGWC-9**	**0.284**	**n/a**	**2/14/2024**	**0.73**	**Yes**	**207**	**n/a**	**n/a**	**45.89**	**n/a**	**n/a**	**0.00004908**	**NP Inter (normality) 1 of 2**
pH, Field (S.U.)	WGWC-10	7.96	4.96	2/15/2024	6.41	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-11	7.96	4.96	2/16/2024	5.6	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-12	7.96	4.96	2/14/2024	6.67	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-13	7.96	4.96	2/15/2024	6.3	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-14A	7.96	4.96	2/15/2024	5.18	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-15	7.96	4.96	2/15/2024	7.88	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-16	7.96	4.96	2/15/2024	5.31	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-17	7.96	4.96	2/15/2024	6.16	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-19	7.96	4.96	2/15/2024	6.87	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-20	7.96	4.96	2/13/2024	5.34	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-21	7.96	4.96	2/15/2024	6.7	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-22	7.96	4.96	2/14/2024	5.84	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-23	7.96	4.96	2/15/2024	5.62	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	**WGWC-24**	**7.96**	**4.96**	**2/14/2024**	**4.72**	**Yes**	**206**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009815**	**NP Inter (normality) 1 of 2**
pH, Field (S.U.)	WGWC-25	7.96	4.96	2/15/2024	6.24	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-8	7.96	4.96	2/13/2024	5.31	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-9	7.96	4.96	2/14/2024	6.13	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-10	21	n/a	2/15/2024	3.2	No	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-11	21	n/a	2/16/2024	2.1	No	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-12	21	n/a	2/14/2024	8.8	No	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-13	21	n/a	2/15/2024	4.3	No	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-14A	21	n/a	2/15/2024	1.2	No	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-15	21	n/a	2/15/2024	16	No	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**WGWC-16**	**21**	**n/a**	**2/15/2024**	**50**	**Yes**	**175**	**n/a**	**n/a**	**22.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	WGWC-17	21	n/a	2/15/2024	5.4	No	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-19	21	n/a	2/15/2024	5.7	No	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**WGWC-20**	**21**	**n/a**	**2/13/2024**	**280**	**Yes**	**175**	**n/a**	**n/a**	**22.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**WGWC-21**	**21**	**n/a**	**2/15/2024**	**420**	**Yes**	**175**	**n/a**	**n/a**	**22.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**WGWC-22**	**21**	**n/a**	**2/14/2024**	**64**	**Yes**	**175**	**n/a**	**n/a**	**22.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	WGWC-23	21	n/a	2/15/2024	8.7	No	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**WGWC-24**	**21**	**n/a**	**2/14/2024**	**55**	**Yes**	**175**	**n/a**	**n/a**	**22.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	WGWC-25	21	n/a	2/15/2024	21	No	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**WGWC-8**	**21**	**n/a**	**2/13/2024**	**190**	**Yes**	**175**	**n/a**	**n/a**	**22.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**WGWC-9**	**21**	**n/a**	**2/14/2024**	**37**	**Yes**	**175**	**n/a**	**n/a**	**22.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	WGWC-10	190	n/a	2/15/2024	53	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-11	190	n/a	2/16/2024	31	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-12	190	n/a	2/14/2024	85	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-13	190	n/a	2/15/2024	84	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-14A	190	n/a	2/15/2024	31	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-15	190	n/a	2/15/2024	130	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-16	190	n/a	2/15/2024	150	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-17	190	n/a	2/15/2024	79	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/11/2024, 4:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	WGWC-19	190	n/a	2/15/2024	100	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**WGWC-20**	**190**	**n/a**	**2/13/2024**	**1200**	**Yes**	**175**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**WGWC-21**	**190**	**n/a**	**2/15/2024**	**740**	**Yes**	**175**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**WGWC-22**	**190**	**n/a**	**2/14/2024**	**210**	**Yes**	**175**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	WGWC-23	190	n/a	2/15/2024	76	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-24	190	n/a	2/14/2024	180	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-25	190	n/a	2/15/2024	130	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**WGWC-8**	**190**	**n/a**	**2/13/2024**	**620**	**Yes**	**175**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	WGWC-9	190	n/a	2/14/2024	150	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2

Appendix III - Trend Test - Significantl Results

Plant Wansley Data: Wansley Ash Pond Printed 4/1/2024, 2:56 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Boron, total (mg/L)	WGWC-16	-0.7689	-152	-92	Yes	22	0	0.01	NP
Boron, total (mg/L)	WGWC-8	0.1959	162	92	Yes	22	0	0.01	NP
Boron, total (mg/L)	WGWC-9	0.04219	117	92	Yes	22	0	0.01	NP
Calcium, total (mg/L)	WGWA-1 (bg)	0.04387	113	92	Yes	22	0	0.01	NP
Calcium, total (mg/L)	WGWA-18 (bg)	-1.371	-117	-92	Yes	22	0	0.01	NP
Calcium, total (mg/L)	WGWC-8	9.116	200	92	Yes	22	0	0.01	NP
Chloride, Total (mg/L)	WGWA-18 (bg)	-0.06926	-100	-92	Yes	22	0	0.01	NP
Chloride, Total (mg/L)	WGWA-5 (bg)	-0.1002	-130	-87	Yes	21	0	0.01	NP
Chloride, Total (mg/L)	WGWC-16	-35.35	-150	-92	Yes	22	0	0.01	NP
Chloride, Total (mg/L)	WGWC-24	-35.81	-41	-30	Yes	10	0	0.01	NP
Chloride, Total (mg/L)	WGWC-8	15.81	175	92	Yes	22	0	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1138	-228	-118	Yes	26	0	0.01	NP
pH, Field (S.U.)	WGWA-18 (bg)	-0.135	-117	-111	Yes	25	0	0.01	NP
pH, Field (S.U.)	WGWA-2 (bg)	-0.03468	-149	-118	Yes	26	0	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-18 (bg)	-0.6778	-111	-92	Yes	22	0	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.3085	101	92	Yes	22	0	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-16	-69.6	-134	-92	Yes	22	0	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	11.98	156	92	Yes	22	0	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.16	101	92	Yes	22	0	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-1 (bg)	3.321	104	92	Yes	22	18.18	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	44.48	195	92	Yes	22	0	0.01	NP

Appendix III - Trend Test - All Results

Plant Wansley Data: Wansley Ash Pond Printed 4/1/2024, 2:56 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Boron, total (mg/L)	WGWA-1 (bg)	0	-17	-92	No	22	95.45	0.01	NP
Boron, total (mg/L)	WGWA-18 (bg)	0	24	92	No	22	90.91	0.01	NP
Boron, total (mg/L)	WGWA-2 (bg)	0	-48	-92	No	22	81.82	0.01	NP
Boron, total (mg/L)	WGWA-3 (bg)	0	0	92	No	22	100	0.01	NP
Boron, total (mg/L)	WGWA-4 (bg)	0	0	92	No	22	100	0.01	NP
Boron, total (mg/L)	WGWA-5 (bg)	0	-16	-87	No	21	95.24	0.01	NP
Boron, total (mg/L)	WGWA-6 (bg)	0	0	92	No	22	100	0.01	NP
Boron, total (mg/L)	WGWA-7 (bg)	0	-17	-92	No	22	95.45	0.01	NP
Boron, total (mg/L)	**WGWC-16**	**-0.7689**	**-152**	**-92**	**Yes**	**22**	**0**	**0.01**	**NP**
Boron, total (mg/L)	WGWC-20	0.9075	21	30	No	10	0	0.01	NP
Boron, total (mg/L)	WGWC-21	0	2	30	No	10	0	0.01	NP
Boron, total (mg/L)	WGWC-22	0	2	30	No	10	0	0.01	NP
Boron, total (mg/L)	WGWC-24	-0.4011	-27	-30	No	10	0	0.01	NP
Boron, total (mg/L)	WGWC-25	0.05928	7	30	No	10	0	0.01	NP
Boron, total (mg/L)	**WGWC-8**	**0.1959**	**162**	**92**	**Yes**	**22**	**0**	**0.01**	**NP**
Boron, total (mg/L)	**WGWC-9**	**0.04219**	**117**	**92**	**Yes**	**22**	**0**	**0.01**	**NP**
Calcium, total (mg/L)	**WGWA-1 (bg)**	**0.04387**	**113**	**92**	**Yes**	**22**	**0**	**0.01**	**NP**
Calcium, total (mg/L)	**WGWA-18 (bg)**	**-1.371**	**-117**	**-92**	**Yes**	**22**	**0**	**0.01**	**NP**
Calcium, total (mg/L)	WGWA-2 (bg)	-0.1557	-49	-92	No	22	0	0.01	NP
Calcium, total (mg/L)	WGWA-3 (bg)	0	0	92	No	22	0	0.01	NP
Calcium, total (mg/L)	WGWA-4 (bg)	0	0	92	No	22	0	0.01	NP
Calcium, total (mg/L)	WGWA-5 (bg)	-0.03714	-21	-87	No	21	0	0.01	NP
Calcium, total (mg/L)	WGWA-6 (bg)	0	29	92	No	22	0	0.01	NP
Calcium, total (mg/L)	WGWA-7 (bg)	0.002392	11	92	No	22	0	0.01	NP
Calcium, total (mg/L)	WGWC-20	26.34	17	30	No	10	0	0.01	NP
Calcium, total (mg/L)	WGWC-21	3.731	13	30	No	10	0	0.01	NP
Calcium, total (mg/L)	**WGWC-8**	**9.116**	**200**	**92**	**Yes**	**22**	**0**	**0.01**	**NP**
Chloride, Total (mg/L)	WGWA-1 (bg)	0.03767	64	92	No	22	0	0.01	NP
Chloride, Total (mg/L)	**WGWA-18 (bg)**	**-0.06926**	**-100**	**-92**	**Yes**	**22**	**0**	**0.01**	**NP**
Chloride, Total (mg/L)	WGWA-2 (bg)	0.03503	78	92	No	22	0	0.01	NP
Chloride, Total (mg/L)	WGWA-3 (bg)	0	-40	-92	No	22	0	0.01	NP
Chloride, Total (mg/L)	WGWA-4 (bg)	0	-84	-92	No	22	0	0.01	NP
Chloride, Total (mg/L)	**WGWA-5 (bg)**	**-0.1002**	**-130**	**-87**	**Yes**	**21**	**0**	**0.01**	**NP**
Chloride, Total (mg/L)	WGWA-6 (bg)	0	-9	-92	No	22	0	0.01	NP
Chloride, Total (mg/L)	WGWA-7 (bg)	0	-38	-92	No	22	0	0.01	NP
Chloride, Total (mg/L)	**WGWC-16**	**-35.35**	**-150**	**-92**	**Yes**	**22**	**0**	**0.01**	**NP**
Chloride, Total (mg/L)	WGWC-20	50.14	16	30	No	10	0	0.01	NP
Chloride, Total (mg/L)	WGWC-21	0	0	30	No	10	0	0.01	NP
Chloride, Total (mg/L)	**WGWC-24**	**-35.81**	**-41**	**-30**	**Yes**	**10**	**0**	**0.01**	**NP**
Chloride, Total (mg/L)	WGWC-25	0	-6	-30	No	10	0	0.01	NP
Chloride, Total (mg/L)	**WGWC-8**	**15.81**	**175**	**92**	**Yes**	**22**	**0**	**0.01**	**NP**
Fluoride, total (mg/L)	WGWA-1 (bg)	0	65	118	No	26	76.92	0.01	NP
Fluoride, total (mg/L)	WGWA-18 (bg)	-0.005794	-81	-118	No	26	15.38	0.01	NP
Fluoride, total (mg/L)	WGWA-2 (bg)	0.003925	92	118	No	26	38.46	0.01	NP
Fluoride, total (mg/L)	WGWA-3 (bg)	0	80	118	No	26	65.38	0.01	NP
Fluoride, total (mg/L)	WGWA-4 (bg)	-0.004106	-86	-118	No	26	0	0.01	NP
Fluoride, total (mg/L)	WGWA-5 (bg)	0	15	111	No	25	88	0.01	NP
Fluoride, total (mg/L)	WGWA-6 (bg)	-0.001214	-22	-118	No	26	7.692	0.01	NP
Fluoride, total (mg/L)	WGWA-7 (bg)	0	71	118	No	26	76.92	0.01	NP
Fluoride, total (mg/L)	WGWC-15	-0.02008	-115	-118	No	26	0	0.01	NP

Appendix III - Trend Test - All Results

Plant Wansley Data: Wansley Ash Pond Printed 4/1/2024, 2:56 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Fluoride, total (mg/L)	WGWC-19	-0.007115	-74	-118	No	26	0	0.01	NP
Fluoride, total (mg/L)	WGWC-21	0.0841	13	30	No	10	0	0.01	NP
Fluoride, total (mg/L)	**WGWC-9**	**-0.1138**	**-228**	**-118**	**Yes**	**26**	**0**	**0.01**	**NP**
pH, Field (S.U.)	WGWA-1 (bg)	-0.01648	-69	-118	No	26	0	0.01	NP
pH, Field (S.U.)	**WGWA-18 (bg)**	**-0.135**	**-117**	**-111**	**Yes**	**25**	**0**	**0.01**	**NP**
pH, Field (S.U.)	**WGWA-2 (bg)**	**-0.03468**	**-149**	**-118**	**Yes**	**26**	**0**	**0.01**	**NP**
pH, Field (S.U.)	WGWA-3 (bg)	-0.01875	-92	-118	No	26	0	0.01	NP
pH, Field (S.U.)	WGWA-4 (bg)	0.01046	15	118	No	26	0	0.01	NP
pH, Field (S.U.)	WGWA-5 (bg)	-0.01322	-27	-118	No	26	0	0.01	NP
pH, Field (S.U.)	WGWA-6 (bg)	0.02119	69	111	No	25	0	0.01	NP
pH, Field (S.U.)	WGWA-7 (bg)	-0.02101	-54	-118	No	26	0	0.01	NP
pH, Field (S.U.)	WGWC-24	0.1015	22	30	No	10	0	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-1 (bg)	0	-9	-92	No	22	90.91	0.01	NP
Sulfate as SO4 (mg/L)	**WGWA-18 (bg)**	**-0.6778**	**-111**	**-92**	**Yes**	**22**	**0**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	WGWA-2 (bg)	-0.05229	-67	-92	No	22	0	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-3 (bg)	-0.01198	-45	-92	No	22	4.545	0.01	NP
Sulfate as SO4 (mg/L)	**WGWA-4 (bg)**	**0.3085**	**101**	**92**	**Yes**	**22**	**0**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	WGWA-5 (bg)	0.01977	17	87	No	21	19.05	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-6 (bg)	-0.1144	-49	-92	No	22	0	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-7 (bg)	0	-34	-92	No	22	68.18	0.01	NP
Sulfate as SO4 (mg/L)	**WGWC-16**	**-69.6**	**-134**	**-92**	**Yes**	**22**	**0**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	WGWC-20	20.25	9	30	No	10	0	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-21	60.25	22	30	No	10	0	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-22	-5.448	-5	-30	No	10	0	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-24	-36.74	-26	-30	No	10	0	0.01	NP
Sulfate as SO4 (mg/L)	**WGWC-8**	**11.98**	**156**	**92**	**Yes**	**22**	**0**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**WGWC-9**	**2.16**	**101**	**92**	**Yes**	**22**	**0**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**WGWA-1 (bg)**	**3.321**	**104**	**92**	**Yes**	**22**	**18.18**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	WGWA-18 (bg)	-4.244	-63	-92	No	22	0	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-2 (bg)	3.67	58	92	No	22	0	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-3 (bg)	1.782	68	92	No	22	4.545	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-4 (bg)	1.696	62	92	No	22	0	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-5 (bg)	1.852	32	87	No	21	9.524	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-6 (bg)	2.929	81	92	No	22	0	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-7 (bg)	2.19	50	92	No	22	13.64	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-20	161.6	18	30	No	10	0	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-21	66.36	24	30	No	10	0	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-22	-6.913	-4	-30	No	10	0	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**WGWC-8**	**44.48**	**195**	**92**	**Yes**	**22**	**0**	**0.01**	**NP**

Upper Tolerance Limits

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/11/2024, 4:44 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0022	159	n/a	n/a	98.11	n/a	n/a	0.000...	NP Inter(NDs)
Arsenic (mg/L)	0.0014	199	n/a	n/a	81.91	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.062	199	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0025	199	n/a	n/a	94.47	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.0025	183	n/a	n/a	100	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0063	198	n/a	n/a	94.44	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.013	198	n/a	n/a	46.46	n/a	n/a	NaN	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	11.4	196	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride, total (mg/L)	0.284	207	n/a	n/a	45.89	n/a	n/a	NaN	NP Inter(normality)
Lead (mg/L)	0.001	183	n/a	n/a	89.62	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.009	189	n/a	n/a	51.32	n/a	n/a	NaN	NP Inter(NDs)
Mercury (mg/L)	0.0002	167	n/a	n/a	91.62	n/a	n/a	0.000...	NP Inter(NDs)
Molybdenum (mg/L)	0.015	198	n/a	n/a	91.41	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	199	n/a	n/a	95.48	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	199	n/a	n/a	93.47	n/a	n/a	NaN	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		0.0063	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.013	0.013
Combined Radium, Total (pCi/L)	5		11.4	11.4
Fluoride, Total (mg/L)	4		0.28	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 Summary Table - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/18/2024, 12:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	**WGWC-20**	**0.01167**	**0.008327**	**0.004**	**Yes**	**8**	**0.01**	**0.001578**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**WGWC-24**	**0.01281**	**0.004665**	**0.004**	**Yes**	**8**	**0.008738**	**0.003842**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**WGWC-24**	**0.11**	**0.0307**	**0.013**	**Yes**	**8**	**0.07038**	**0.03743**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**WGWC-19**	**0.05615**	**0.04937**	**0.04**	**Yes**	**25**	**0.05276**	**0.006802**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**WGWC-20**	**0.15**	**0.11**	**0.04**	**Yes**	**10**	**0.127**	**0.01703**	**0**	**None**	**No**	**0.011**	**NP (normality)**

Confidence Interval Summary Table - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/18/2024, 12:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	WGWC-11	0.002	0.00053	0.006	No	20	0.001927	0.0003287	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-12	0.0023	0.002	0.006	No	20	0.002015	0.00006708	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-19	0.002	0.00058	0.006	No	20	0.001929	0.0003175	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-20	0.002	0.00044	0.006	No	8	0.001361	0.0007062	50	None	No	0.004	NP (normality)
Antimony (mg/L)	WGWC-21	0.002	0.00053	0.006	No	8	0.00148	0.0007209	62.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	WGWC-22	0.001039	0.0006064	0.006	No	8	0.001263	0.0006368	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Antimony (mg/L)	WGWC-23	0.001944	0.001003	0.006	No	8	0.001813	0.0003643	50	Kaplan-Meier	x^3	0.01	Param.
Antimony (mg/L)	WGWC-27	0.001901	0	0.006	No	4	0.001133	0.0007426	25	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	WGWC-8	0.0079	0.00064	0.006	No	20	0.002677	0.00239	85	Kaplan-Meier	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-9	0.0043	0.0011	0.006	No	20	0.002305	0.001877	60	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.00089	0.01	No	25	0.0008972	0.000231	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	25	0.0009408	0.0001639	88	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.001	0.01	No	25	0.0009348	0.0001816	84	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00048	0.01	No	25	0.0007992	0.0003135	52	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-14A	0.0014	0.00095	0.01	No	25	0.001194	0.0005296	72	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-15	0.001913	0.001076	0.01	No	25	0.001494	0.00084	12	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.0013	0.001	0.01	No	25	0.001126	0.0003015	60	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-17	0.001	0.00076	0.01	No	25	0.000872	0.0001968	60	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-20	0.001	0.00031	0.01	No	8	0.0007425	0.0003101	37.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	WGWC-21	0.0007161	0.0003119	0.01	No	8	0.0006963	0.0002987	37.5	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-22	0.0011	0.00029	0.01	No	8	0.0008563	0.0003025	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Arsenic (mg/L)	WGWC-24	0.002525	0.0001603	0.01	No	8	0.00149	0.001085	25	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-25	0.001	0.00096	0.01	No	8	0.000995	0.00001414	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	WGWC-8	0.001009	0.0006478	0.01	No	25	0.001008	0.0002997	44	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	25	0.000998	0.0001848	88	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.03988	0.03437	2	No	25	0.03744	0.0062	0	None	ln(x)	0.01	Param.
Barium (mg/L)	WGWC-11	0.04108	0.03372	2	No	25	0.0374	0.007377	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-12	0.019	0.015	2	No	25	0.01682	0.003805	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-13	0.05348	0.04436	2	No	25	0.04892	0.009151	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04072	0.02967	2	No	25	0.03664	0.01334	0	None	ln(x)	0.01	Param.
Barium (mg/L)	WGWC-15	0.02582	0.02151	2	No	25	0.02366	0.004319	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.05366	0.03914	2	No	25	0.04722	0.01494	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-17	0.018	0.011	2	No	25	0.01416	0.003947	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-19	0.01	0.0012	2	No	25	0.004321	0.004112	32	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-20	0.01	0.00091	2	No	8	0.008864	0.003214	87.5	None	No	0.004	NP (NDs)
Barium (mg/L)	WGWC-21	0.00816	0.004565	2	No	8	0.006363	0.001696	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-22	0.03983	0.02317	2	No	8	0.0315	0.007856	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-23	0.009706	0.005844	2	No	8	0.007775	0.001822	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-24	0.04726	0.02924	2	No	8	0.03825	0.008498	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-25	0.4117	0.2083	2	No	8	0.31	0.09592	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-27	0.005675	0.002925	2	No	4	0.0043	0.0006055	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-8	0.01	0.0013	2	No	25	0.004676	0.004132	36	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.01	0.0014	2	No	25	0.005489	0.004447	48	None	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00026	0.004	No	25	0.001691	0.001101	64	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	25	0.002409	0.000456	96	None	No	0.01	NP (NDs)
Beryllium (mg/L)	**WGWC-20**	**0.01167**	**0.008327**	**0.004**	**Yes**	**8**	**0.01**	**0.001578**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	WGWC-21	0.0025	0.00021	0.004	No	8	0.001642	0.001183	62.5	None	No	0.004	NP (NDs)
Beryllium (mg/L)	WGWC-22	0.0006619	0.0005006	0.004	No	8	0.0005813	0.00007605	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-23	0.001298	0.0008871	0.004	No	8	0.001093	0.0001938	0	None	No	0.01	Param.
Beryllium (mg/L)	**WGWC-24**	**0.01281**	**0.004665**	**0.004**	**Yes**	**8**	**0.008738**	**0.003842**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	WGWC-25	0.0025	0.0002	0.004	No	8	0.001095	0.001164	37.5	None	No	0.004	NP (normality)
Beryllium (mg/L)	WGWC-27	0.0012	0.00046	0.004	No	4	0.00068	0.0003483	0	None	No	0.0625	NP (normality)
Beryllium (mg/L)	WGWC-8	0.002212	0.001704	0.004	No	25	0.001958	0.00051	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	25	0.001146	0.001038	36	None	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-10	0.0025	0.00021	0.005	No	23	0.0024	0.0004775	95.65	None	No	0.01	NP (NDs)

Confidence Interval Summary Table - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/18/2024, 12:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	WGWC-16	0.0025	0.00047	0.005	No	23	0.001271	0.001021	39.13	None	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-20	0.0025	0.00019	0.005	No	8	0.00143	0.001149	50	None	No	0.004	NP (normality)
Cadmium (mg/L)	WGWC-22	0.0025	0.00009	0.005	No	8	0.001344	0.001238	50	None	No	0.004	NP (normality)
Cadmium (mg/L)	WGWC-24	0.0005283	0.0001355	0.005	No	8	0.0003319	0.0001853	0	None	No	0.01	Param.
Cadmium (mg/L)	WGWC-25	0.0025	0.0001	0.005	No	8	0.001902	0.001106	75	None	No	0.004	NP (NDs)
Cadmium (mg/L)	WGWC-27	0.0025	0.00008	0.005	No	4	0.001895	0.00121	75	None	No	0.0625	NP (NDs)
Cadmium (mg/L)	WGWC-8	0.0025	0.00065	0.005	No	23	0.002226	0.0007285	86.96	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-10	0.002359	0.001625	0.1	No	25	0.001992	0.0007359	12	None	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.002	0.0017	0.1	No	25	0.001924	0.000242	84	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0019	0.1	No	25	0.001976	0.00007234	88	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	25	0.001988	0.00006	96	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	25	0.00198	0.0001	96	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-21	0.002	0.0015	0.1	No	8	0.001938	0.0001768	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	25	0.00202	0.0001	92	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001366	0.0007574	0.013	No	25	0.001125	0.0007022	12	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00069	0.013	No	25	0.001654	0.0009451	44	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.000911	0.0004261	0.013	No	25	0.0008748	0.0009949	4	None	ln(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.0008	0.013	No	25	0.001997	0.0009197	76	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-14A	0.008255	0.004115	0.013	No	25	0.006696	0.004487	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-15	0.0025	0.00015	0.013	No	25	0.002406	0.00047	96	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-16	0.004253	0.0006033	0.013	No	25	0.005893	0.005861	28	Kaplan-Meier	x^(1/3)	0.01	Param.
Cobalt (mg/L)	WGWC-17	0.001117	0.0005199	0.013	No	25	0.001364	0.0008731	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00025	0.013	No	25	0.001286	0.001103	44	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-20	0.0025	0.00037	0.013	No	8	0.001979	0.0009655	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	WGWC-21	0.0025	0.00032	0.013	No	8	0.001256	0.001051	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	WGWC-22	0.0025	0.00025	0.013	No	8	0.001684	0.001127	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	WGWC-23	0.0025	0.00016	0.013	No	8	0.001916	0.001081	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	**WGWC-24**	**0.11**	**0.0307**	**0.013**	**Yes**	**8**	**0.07038**	**0.03743**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	WGWC-25	0.006632	0.003618	0.013	No	8	0.005125	0.001422	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-27	0.002403	0.001047	0.013	No	4	0.001725	0.0002986	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-8	0.0025	0.00075	0.013	No	25	0.001798	0.001011	48	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	25	0.002429	0.000354	96	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4195	0.1815	11.4	No	25	0.3005	0.2387	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.5712	0.2098	11.4	No	25	0.3905	0.3625	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.5726	0.2365	11.4	No	25	0.4046	0.3371	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.7327	0.4349	11.4	No	25	0.5838	0.2987	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.798	0.5292	11.4	No	25	0.6833	0.2973	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.5843	0.2807	11.4	No	25	0.4719	0.3342	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	1.512	0.7444	11.4	No	25	1.225	0.8575	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5179	0.1789	11.4	No	25	0.3484	0.34	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.5328	0.228	11.4	No	25	0.3804	0.3058	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-20	1.301	0.6451	11.4	No	8	0.9729	0.3092	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-21	2.206	0.7225	11.4	No	8	1.465	0.7	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-22	6.876	3.541	11.4	No	8	5.209	1.573	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-23	1.496	0.2317	11.4	No	8	0.8639	0.5964	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-24	1.431	0.6877	11.4	No	8	1.052	0.3715	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-25	0.9514	0.5319	11.4	No	8	0.7416	0.1979	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-27	8.472	-2.45	11.4	No	4	3.011	2.405	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-8	2.25	1.542	11.4	No	25	1.896	0.711	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.3961	0.1708	11.4	No	25	0.2835	0.226	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-10	0.1629	0.1205	4	No	26	0.1417	0.04352	3.846	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-11	0.2	0.045	4	No	26	0.1331	0.07838	53.85	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	WGWC-12	0.0947	0.07011	4	No	26	0.1055	0.04707	15.38	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	WGWC-13	0.2706	0.1997	4	No	26	0.2352	0.07267	3.846	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-14A	0.2	0.048	4	No	26	0.1458	0.07627	65.38	None	No	0.01	NP (NDs)

Confidence Interval Summary Table - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/18/2024, 12:38 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	WGWC-15	0.8543	0.7687	4	No	26	0.8115	0.08782	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-16	0.13	0.067	4	No	26	0.141	0.166	11.54	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-17	0.1246	0.08274	4	No	26	0.1037	0.04299	7.692	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-19	0.3724	0.3276	4	No	26	0.35	0.04587	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-20	2.226	1.475	4	No	10	1.79	0.6332	10	None	x^2	0.01	Param.
Fluoride, total (mg/L)	WGWC-21	2.007	1.713	4	No	10	1.86	0.1647	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-22	0.7625	0.2727	4	No	10	0.542	0.3881	0	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	WGWC-23	0.08465	0.03878	4	No	10	0.062	0.02634	10	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	WGWC-24	1.022	0.3163	4	No	10	0.669	0.3953	10	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-25	0.2	0.028	4	No	10	0.119	0.08564	50	None	No	0.011	NP (normality)
Fluoride, total (mg/L)	WGWC-27	1.616	0.254	4	No	4	0.935	0.2999	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-8	0.3104	0.1884	4	No	26	0.2494	0.1252	3.846	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-9	1.409	1.096	4	No	26	1.253	0.3214	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00025	0.015	No	23	0.0006591	0.0003792	52.17	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.015	No	23	0.0008939	0.0002423	82.61	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-12	0.001	0.00033	0.015	No	23	0.0009709	0.0001397	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00045	0.015	No	23	0.0006913	0.0003124	39.13	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00029	0.015	No	23	0.0006904	0.0003707	56.52	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-15	0.001	0.0003	0.015	No	23	0.0009696	0.000146	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.015	No	23	0.0009248	0.0002492	91.3	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.015	No	23	0.0009361	0.0002127	91.3	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-19	0.001	0.0003	0.015	No	23	0.0009696	0.000146	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-22	0.001	0.00022	0.015	No	8	0.0005513	0.000376	37.5	None	No	0.004	NP (normality)
Lead (mg/L)	WGWC-23	0.0046	0.001	0.015	No	8	0.00145	0.001273	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	WGWC-24	0.0009291	0.0002684	0.015	No	8	0.0005988	0.0003117	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-8	0.001	0.00029	0.015	No	23	0.000737	0.0003777	65.22	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.015	No	23	0.0009626	0.0001793	95.65	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01233	0.006225	0.04	No	25	0.01002	0.007036	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.04	No	25	0.004409	0.001389	84	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.0075	0.0061	0.04	No	25	0.007272	0.004071	4	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-13	0.005	0.0038	0.04	No	25	0.004328	0.001176	72	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-14A	0.005	0.0033	0.04	No	25	0.004084	0.001349	64	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-15	0.007002	0.005318	0.04	No	25	0.00616	0.001689	8	None	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.009229	0.005611	0.04	No	25	0.00742	0.003629	8	None	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.0056	0.0044	0.04	No	25	0.005664	0.004175	4	None	No	0.01	NP (normality)
Lithium (mg/L)	**WGWC-19**	**0.05615**	**0.04937**	**0.04**	**Yes**	**25**	**0.05276**	**0.006802**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**WGWC-20**	**0.15**	**0.11**	**0.04**	**Yes**	**10**	**0.127**	**0.01703**	**0**	**None**	**No**	**0.011**	**NP (normality)**
Lithium (mg/L)	WGWC-21	0.06081	0.03219	0.04	No	10	0.0465	0.01604	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-22	0.01101	0.007295	0.04	No	10	0.00901	0.002598	0	None	x^2	0.01	Param.
Lithium (mg/L)	WGWC-23	0.005	0.0017	0.04	No	10	0.00396	0.001552	60	None	No	0.011	NP (NDs)
Lithium (mg/L)	WGWC-24	0.008121	0.004039	0.04	No	10	0.00608	0.002287	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-25	0.004986	0.003154	0.04	No	10	0.00407	0.001026	10	None	No	0.01	Param.
Lithium (mg/L)	WGWC-27	0.05844	0	0.04	No	4	0.0263	0.01415	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-8	0.015	0.013	0.04	No	25	0.01596	0.009277	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03666	0.03162	0.04	No	25	0.03414	0.005057	0	None	No	0.01	Param.
Mercury (mg/L)	WGWC-10	0.0002	0.00013	0.002	No	21	0.00018	0.00004321	80.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-11	0.0002	0.00011	0.002	No	21	0.0001901	0.00003159	90.48	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-12	0.0002	0.00018	0.002	No	21	0.0001847	0.00003629	80.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-13	0.0002	0.000083	0.002	No	21	0.0001888	0.00003549	90.48	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-14A	0.0002	0.00013	0.002	No	21	0.0001967	0.00001528	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-15	0.0002	0.000093	0.002	No	21	0.0001779	0.00004691	80.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-16	0.0002	0.00019	0.002	No	21	0.0001895	0.00003248	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-17	0.0002	0.000074	0.002	No	21	0.000194	0.0000275	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-19	0.0002	0.00012	0.002	No	21	0.0001903	0.00003146	90.48	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-20	0.00033	0.0002	0.002	No	8	0.0002162	0.00004596	87.5	None	No	0.004	NP (NDs)

Confidence Interval Summary Table - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/18/2024, 12:38 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	WGWC-21	0.0002	0.0002	0.002	No	8	0.0002	1.8e-12	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	WGWC-22	0.0002	0.00018	0.002	No	8	0.0001975	0.000007071	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	WGWC-23	0.00022	0.0002	0.002	No	8	0.0002025	0.000007071	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	WGWC-24	0.00026	0.0002	0.002	No	8	0.0002075	0.00002121	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	WGWC-25	0.0019	0.0002	0.002	No	8	0.0004125	0.000601	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	WGWC-8	0.0002	0.00013	0.002	No	21	0.0001866	0.00003471	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-9	0.0002	0.00013	0.002	No	21	0.0001967	0.00001528	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.1	No	25	0.01387	0.003899	92	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.1	No	25	0.01391	0.003767	92	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.0046	0.1	No	25	0.01174	0.005969	76	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-13	0.002815	0.001488	0.1	No	25	0.002562	0.002052	12	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.1	No	25	0.01444	0.0028	96	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.005205	0.002999	0.1	No	25	0.004668	0.003243	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.00526	0.0023	0.1	No	25	0.003792	0.002382	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-19	0.0016	0.0012	0.1	No	25	0.005124	0.006287	28	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-20	0.015	0.00062	0.1	No	8	0.01143	0.006617	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	WGWC-21	0.04183	0.02742	0.1	No	8	0.03463	0.006802	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-22	0.015	0.00084	0.1	No	8	0.01323	0.005006	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	WGWC-9	0.0053	0.0028	0.1	No	25	0.004785	0.003195	0	None	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	25	0.004812	0.000938	96	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	25	0.00482	0.000902	96	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	25	0.004884	0.00058	96	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	25	0.004812	0.00094	96	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	25	0.00482	0.0009	96	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.008597	0.004031	0.05	No	25	0.006926	0.004803	8	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	25	0.004814	0.000928	96	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-20	0.002816	0.001322	0.05	No	8	0.00205	0.0007653	12.5	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	WGWC-22	0.007012	0.003588	0.05	No	8	0.0053	0.001615	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-23	0.002744	0.001631	0.05	No	8	0.002188	0.0005249	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-24	0.005	0.00077	0.05	No	8	0.004471	0.001496	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	WGWC-8	0.0038	0.0032	0.05	No	25	0.003823	0.001184	0	None	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-9	0.002861	0.002282	0.05	No	25	0.002571	0.000581	0	None	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	25	0.0009634	0.000183	96	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-11	0.001	0.00016	0.002	No	25	0.0009664	0.000168	96	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00017	0.002	No	25	0.0006308	0.0004259	56	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-16	0.001	0.00017	0.002	No	25	0.0006024	0.0004236	52	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-19	0.001	0.00018	0.002	No	25	0.0009672	0.000164	96	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-22	0.001	0.00047	0.002	No	8	0.0009338	0.0001874	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	WGWC-24	0.0006516	0.0003034	0.002	No	8	0.0004775	0.0001643	0	None	No	0.01	Param.

Appendix IV - Trend Tests - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/11/2024, 5:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	**WGWA-1 (bg)**	**-0.00007539**	**-185**	**-85**	**Yes**	**25**	**4**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**WGWA-18 (bg)**	**-0.0002846**	**-143**	**-85**	**Yes**	**25**	**8**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**WGWA-2 (bg)**	**-0.00009633**	**-210**	**-85**	**Yes**	**25**	**8**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**WGWA-5 (bg)**	**-0.0002998**	**-119**	**-76**	**Yes**	**23**	**4.348**	**n/a**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**WGWC-19**	**0.001415**	**104**	**85**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV - Trend Tests - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/11/2024, 5:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	WGWA-1 (bg)	0	-21	-85	No	25	88	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-18 (bg)	0	0	85	No	25	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-2 (bg)	0	-19	-85	No	25	88	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-3 (bg)	0	-19	-85	No	25	92	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-4 (bg)	0	0	85	No	25	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-5 (bg)	0	-1	-81	No	24	95.83	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-6 (bg)	0	-2	-85	No	25	96	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-7 (bg)	0	-4	-85	No	25	96	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWC-20	0.000961	6	17	No	8	0	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWC-24	-0.003528	-15	-17	No	8	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	**WGWA-1 (bg)**	**-0.00007539**	**-185**	**-85**	**Yes**	**25**	**4**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**WGWA-18 (bg)**	**-0.0002846**	**-143**	**-85**	**Yes**	**25**	**8**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**WGWA-2 (bg)**	**-0.00009633**	**-210**	**-85**	**Yes**	**25**	**8**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	WGWA-3 (bg)	0	0	85	No	25	100	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-4 (bg)	0	2	85	No	25	96	n/a	n/a	0.05	NP
Cobalt (mg/L)	**WGWA-5 (bg)**	**-0.0002998**	**-119**	**-76**	**Yes**	**23**	**4.348**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	WGWA-6 (bg)	0	4	85	No	25	84	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-7 (bg)	0	-29	-85	No	25	64	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWC-24	-0.03692	-16	-17	No	8	0	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-1 (bg)	-0.00001334	-43	-81	No	24	37.5	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-18 (bg)	0	-5	-81	No	24	83.33	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-2 (bg)	0	-8	-81	No	24	0	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-3 (bg)	0	19	81	No	24	87.5	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-4 (bg)	0.00007688	34	81	No	24	4.167	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-5 (bg)	0	1	71	No	22	95.45	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-6 (bg)	0.0001055	43	76	No	23	8.696	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-7 (bg)	0	9	81	No	24	95.83	n/a	n/a	0.05	NP
Lithium (mg/L)	**WGWC-19**	**0.001415**	**104**	**85**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	WGWC-20	0.008498	17	23	No	10	0	n/a	n/a	0.05	NP

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FIGURE A.

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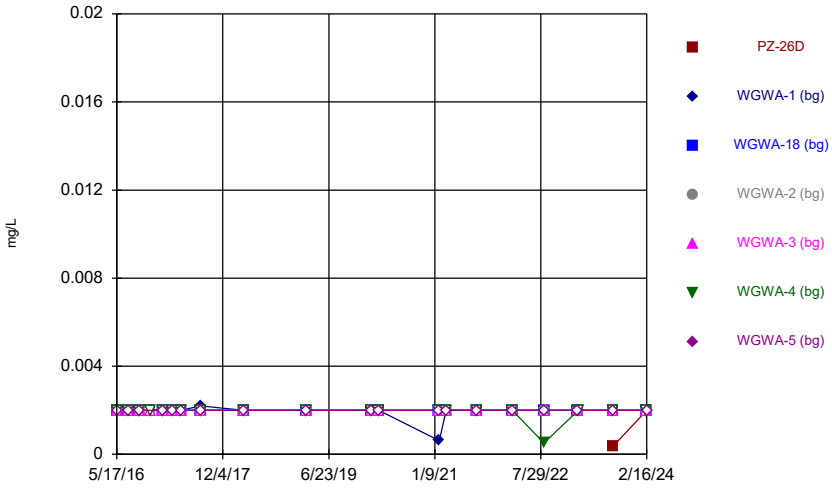
Time Series



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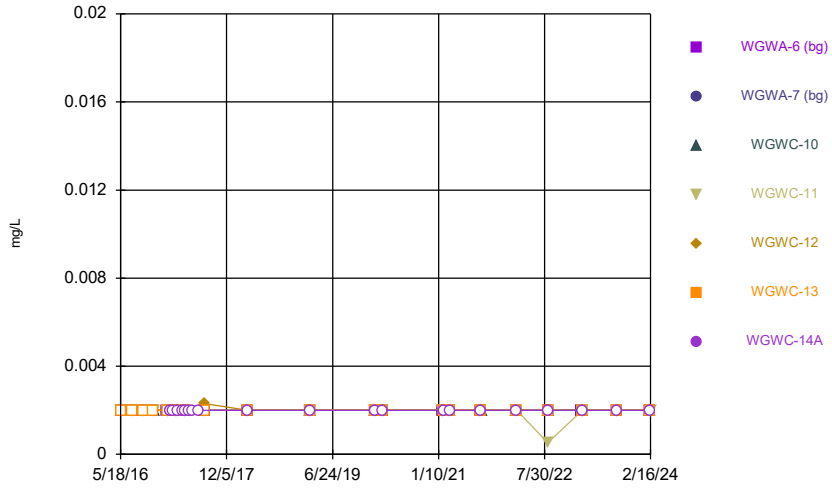

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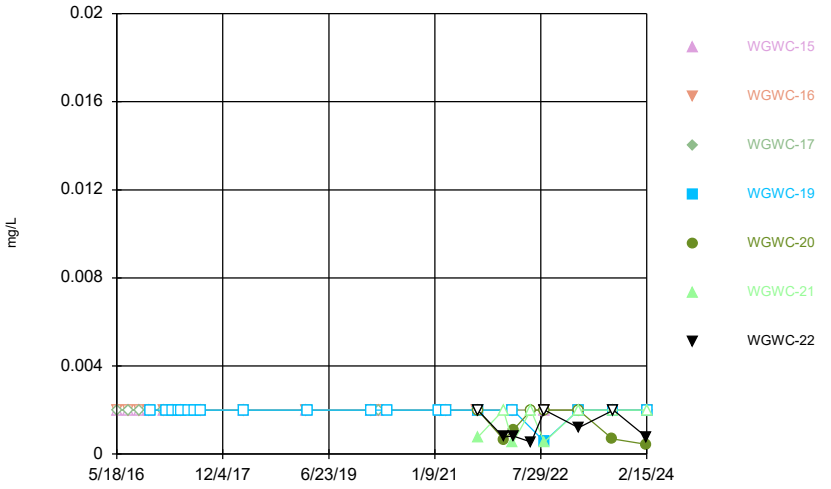

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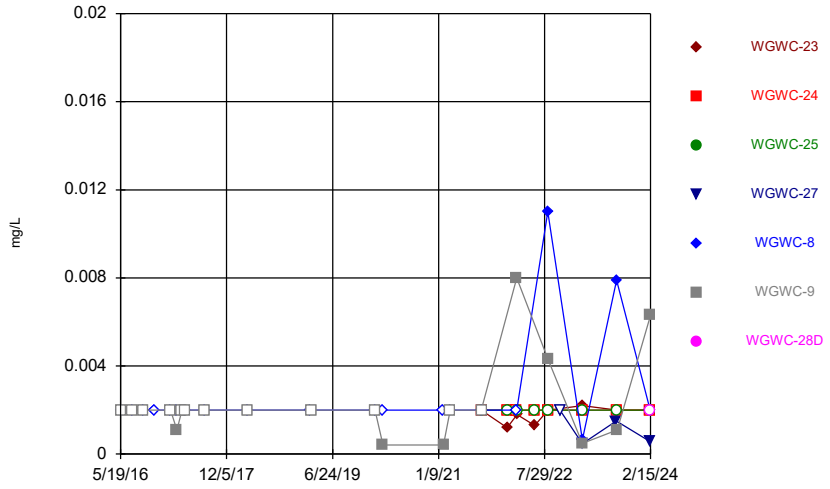

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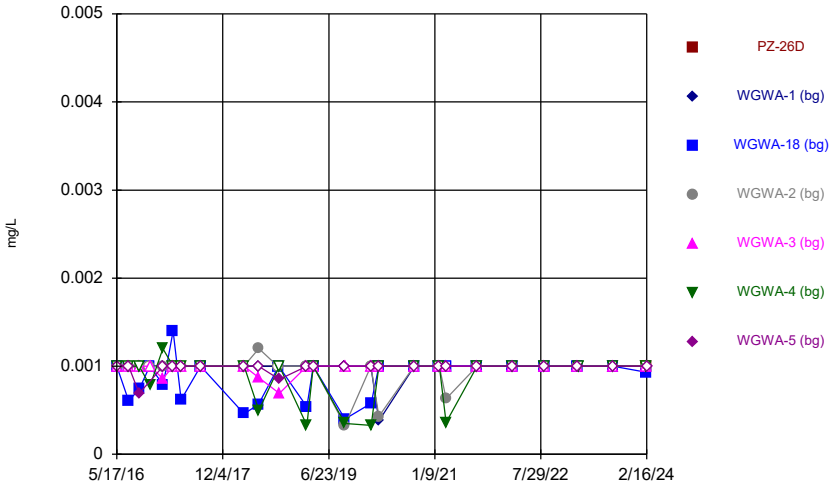

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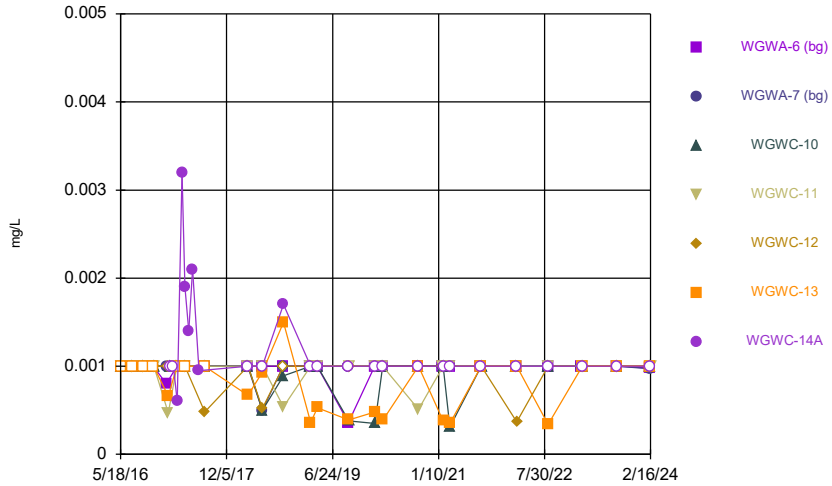

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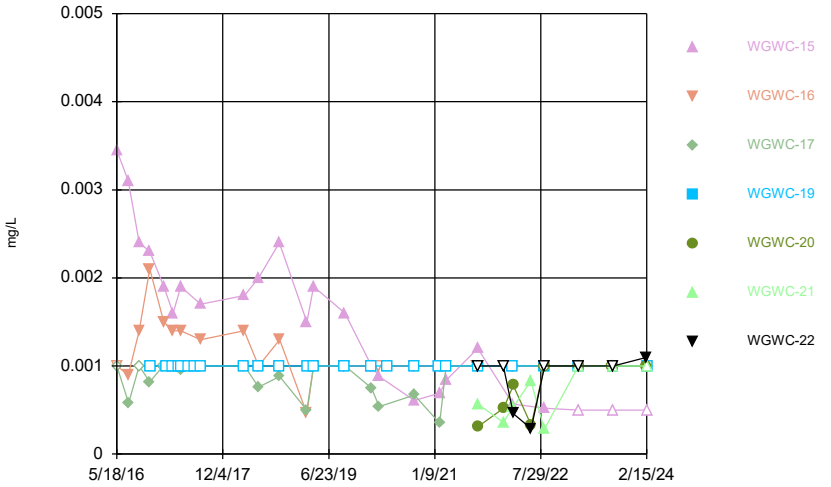

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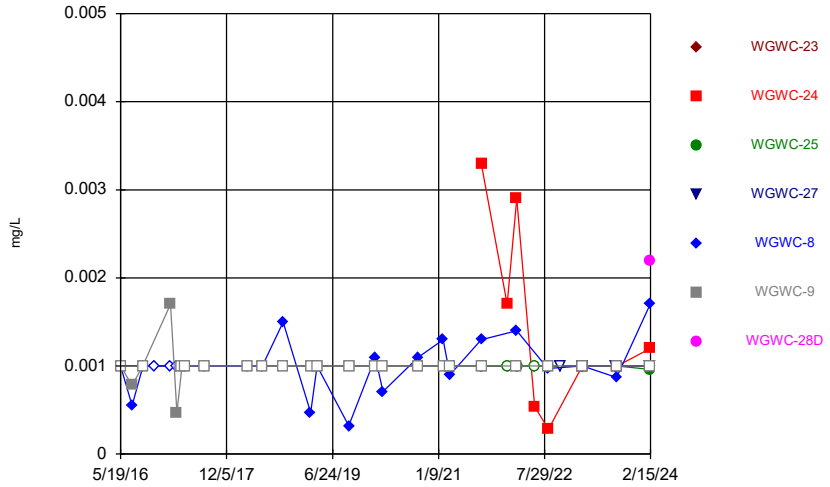

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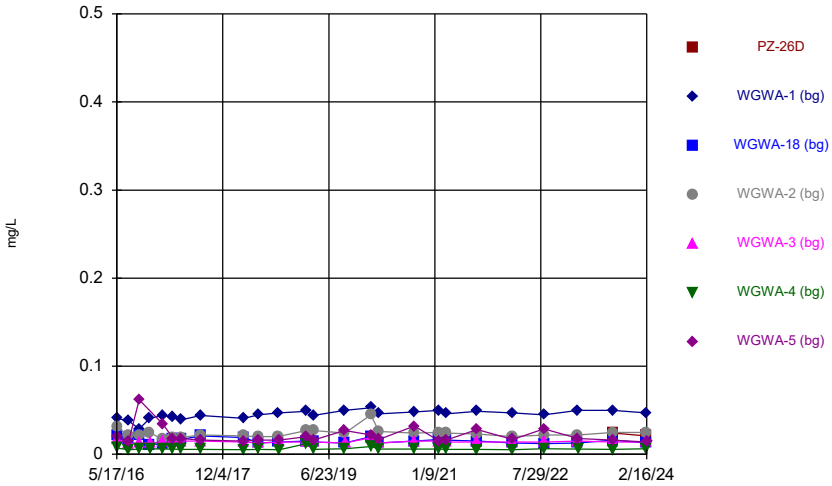

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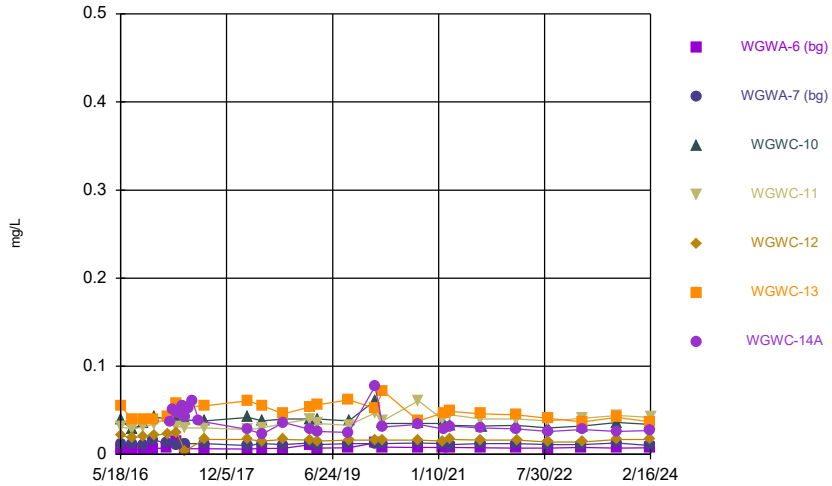

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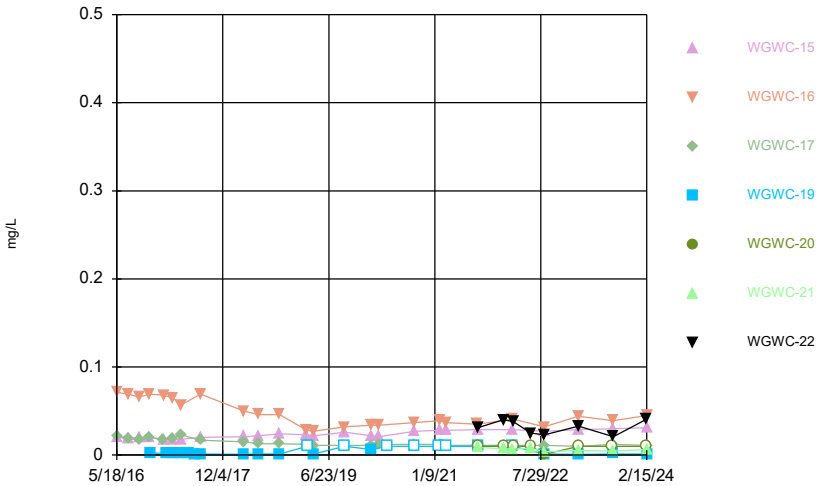

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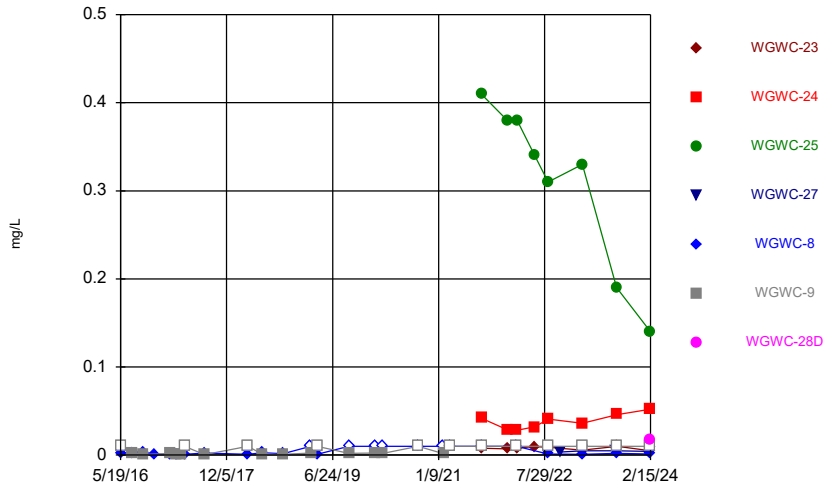

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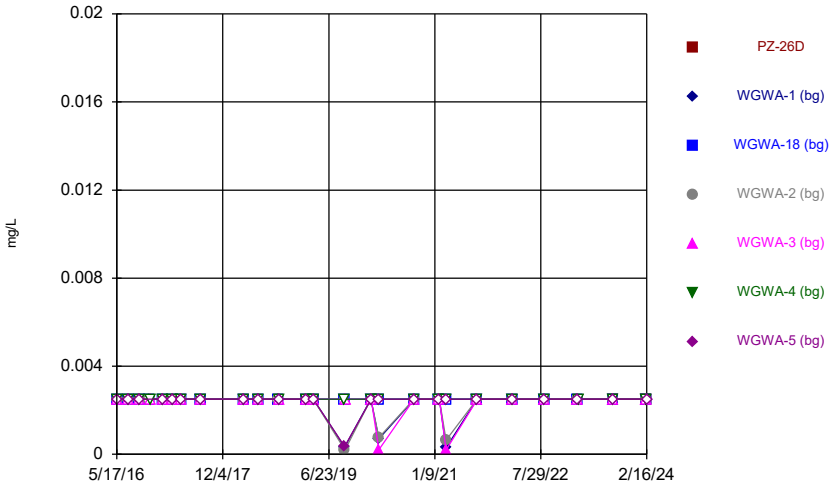

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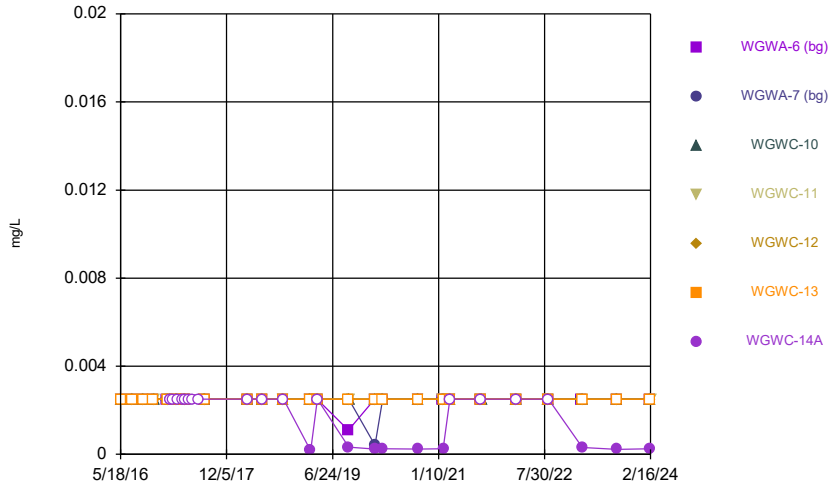

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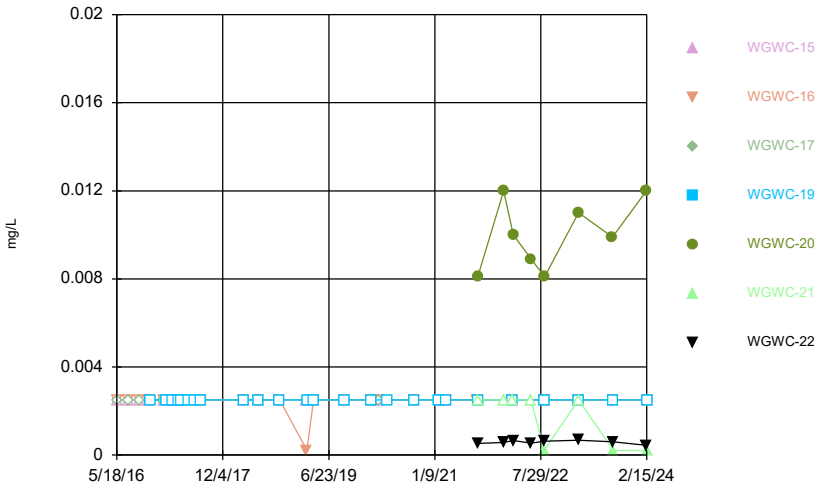

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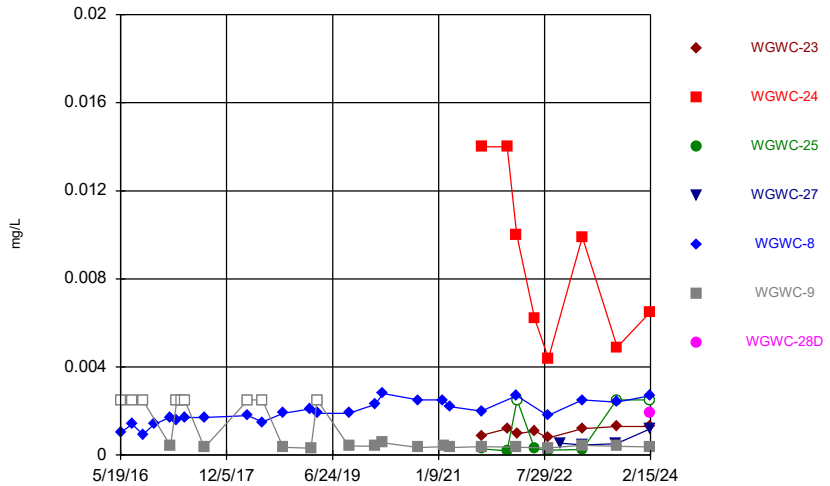

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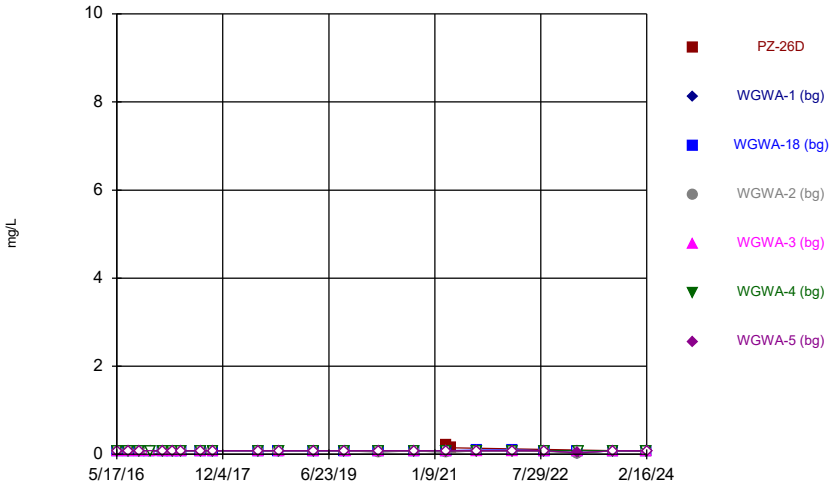

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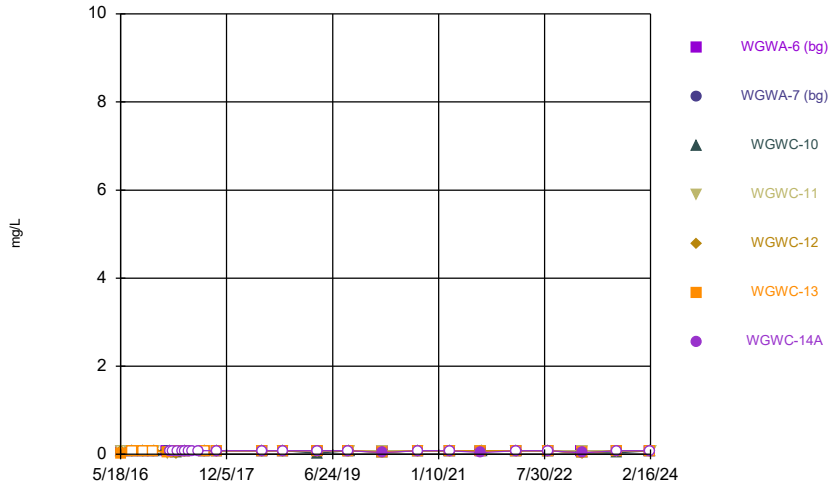

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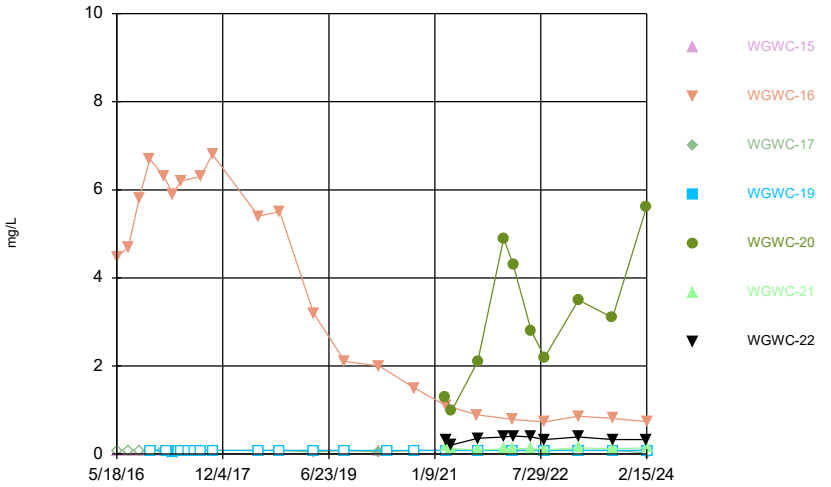

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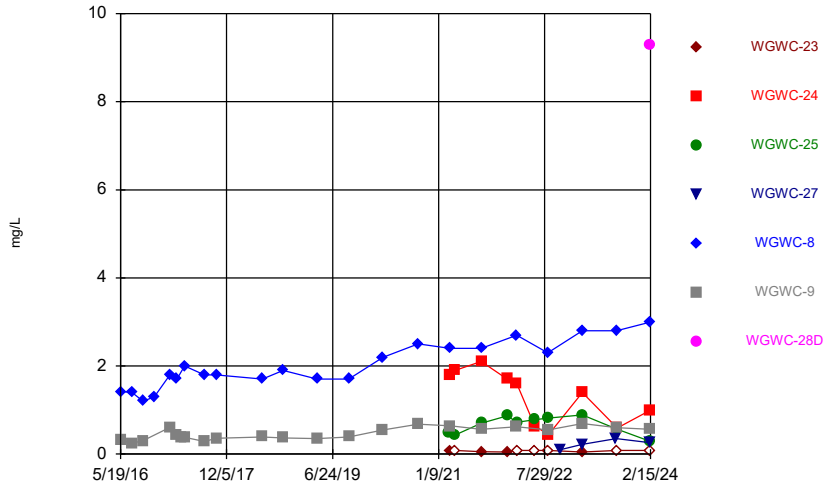

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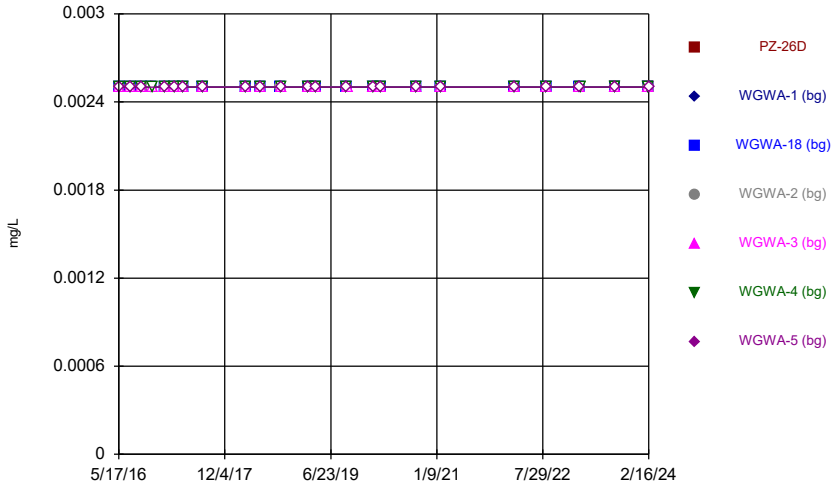

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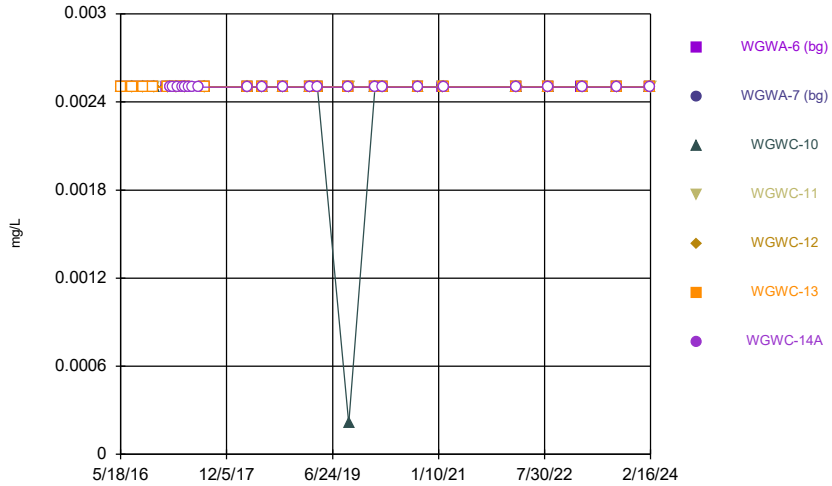

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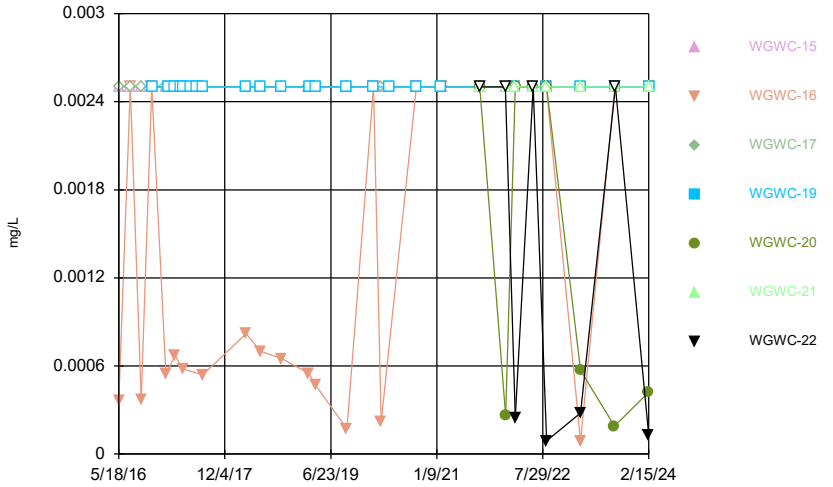

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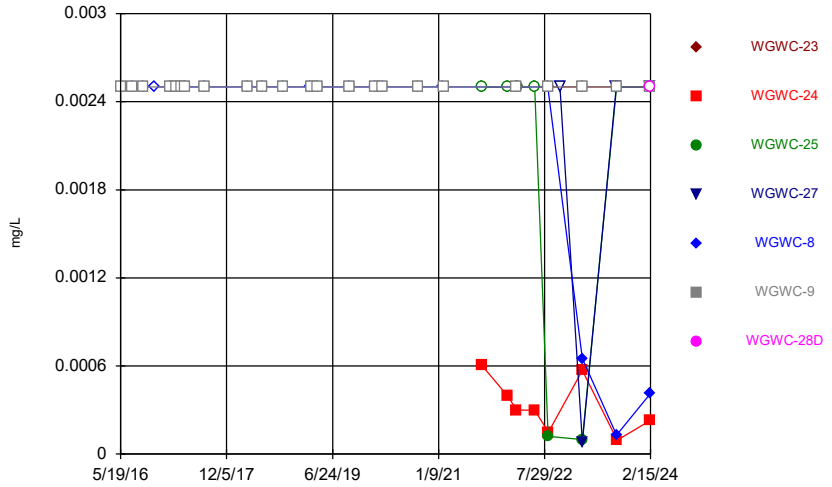

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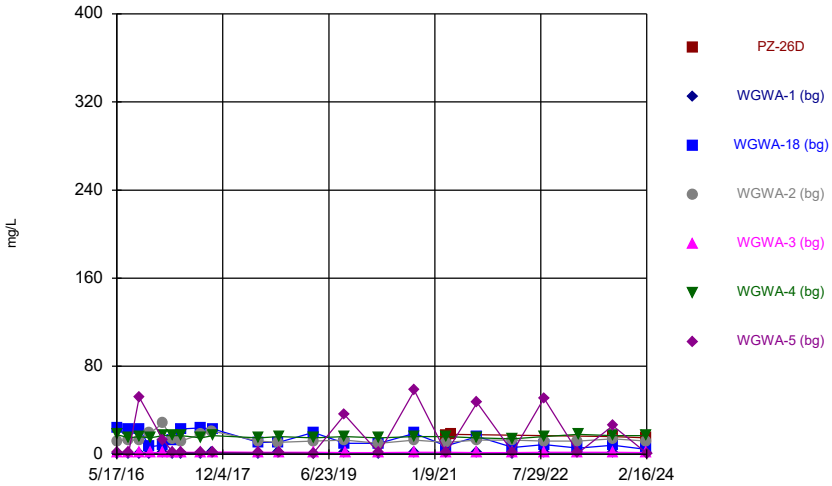

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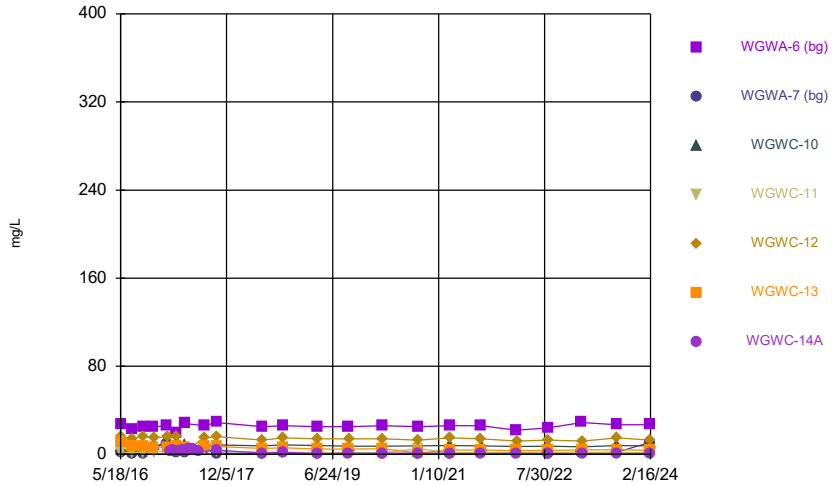

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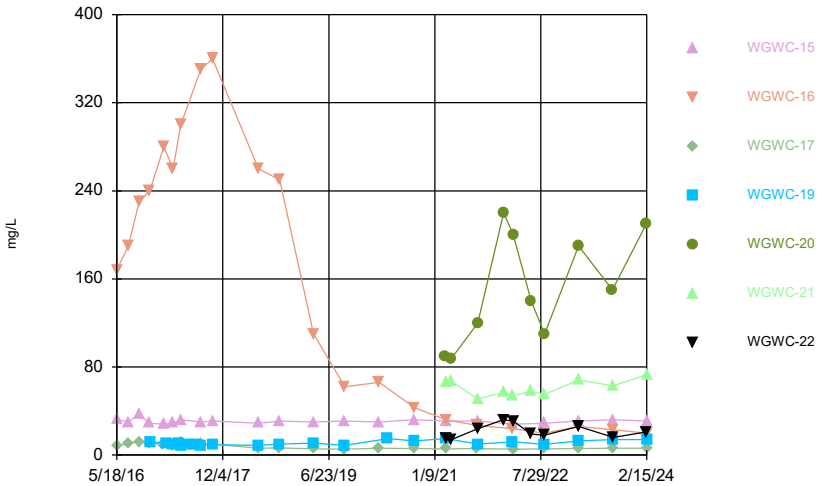

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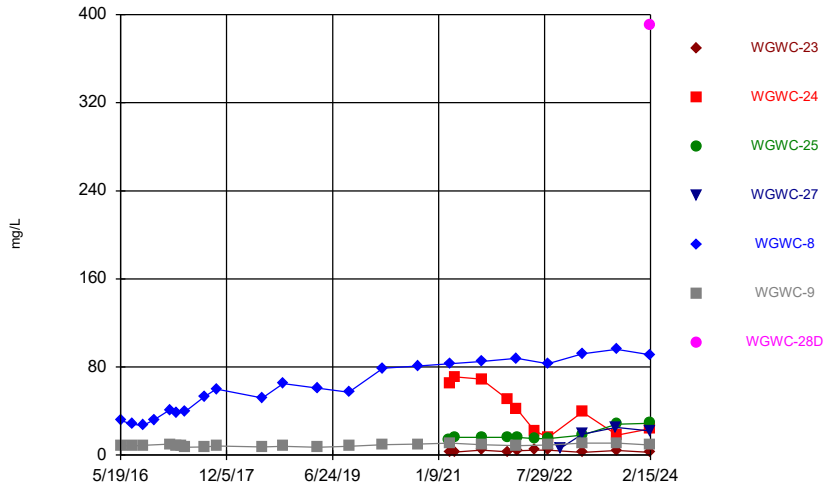

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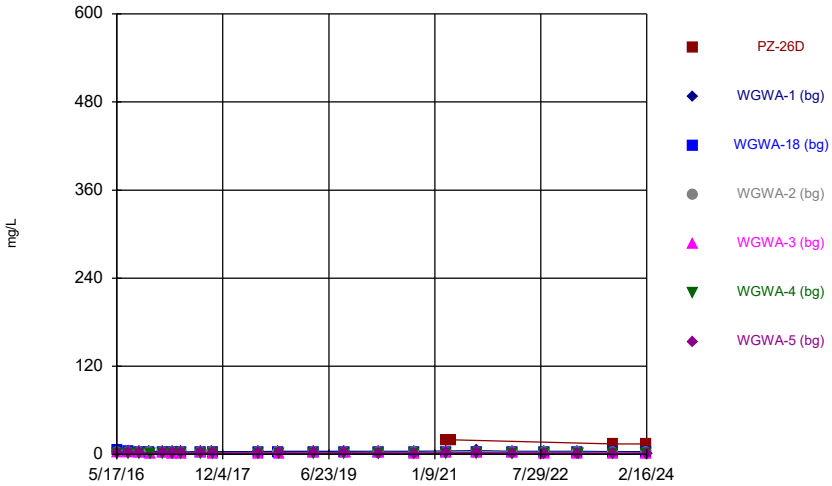

Constituent: Chloride, Total Analysis Run 4/11/2024 4:56 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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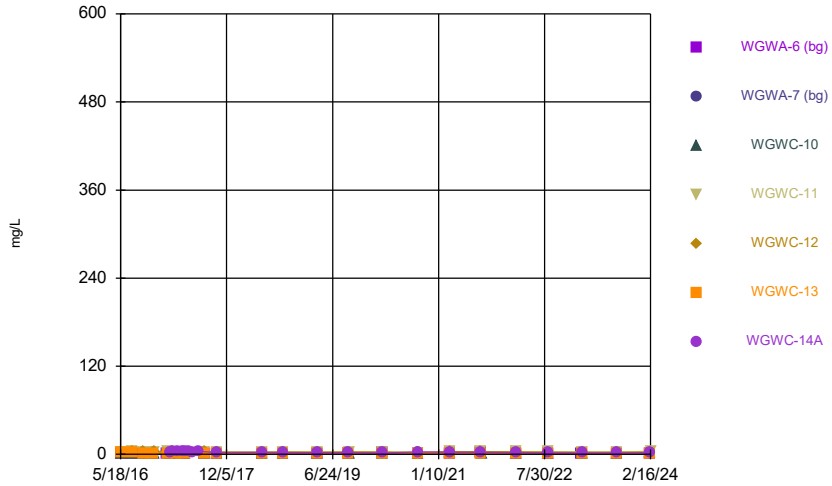
Time Series



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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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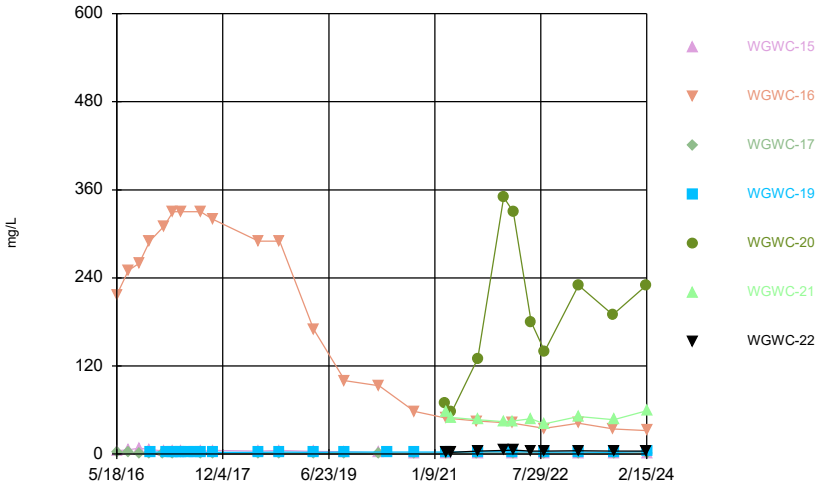
Time Series



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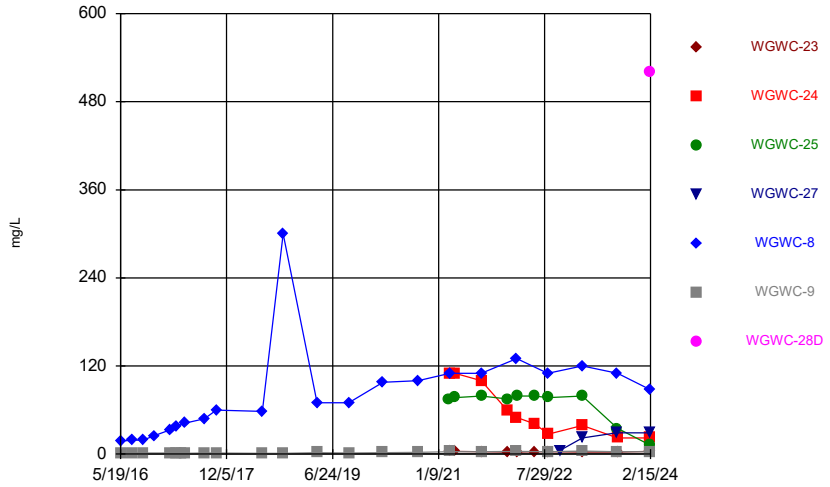
Time Series



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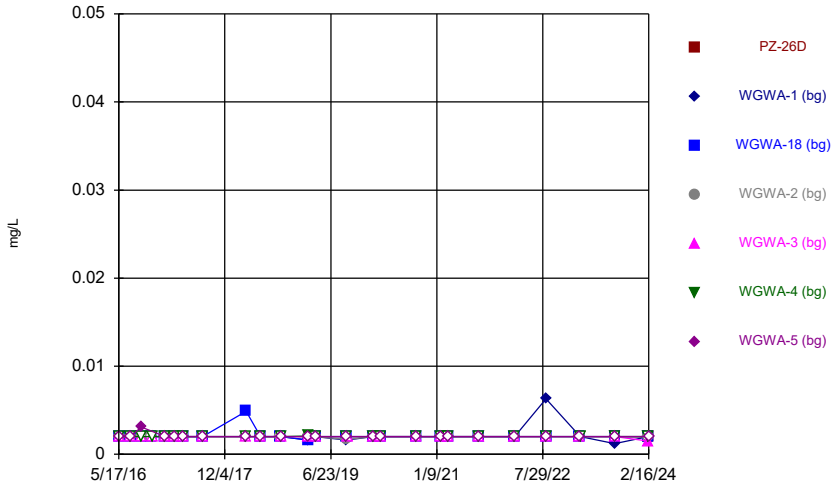
Time Series



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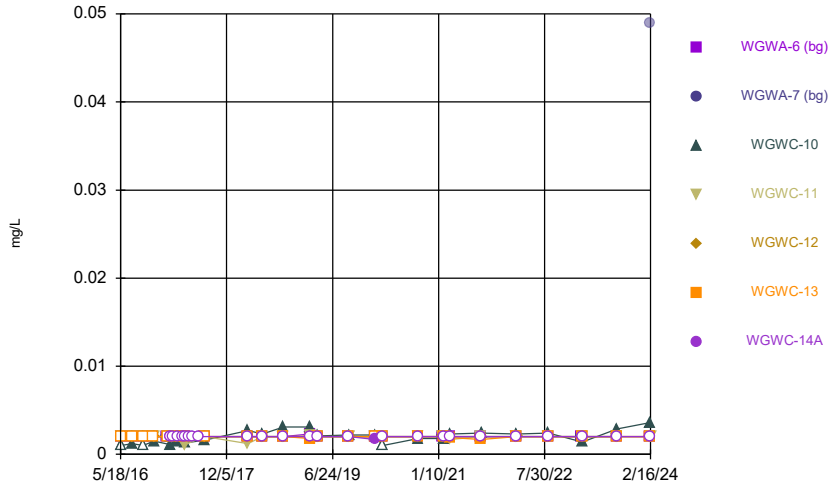
Hollow symbols indicate censored values.

Time Series



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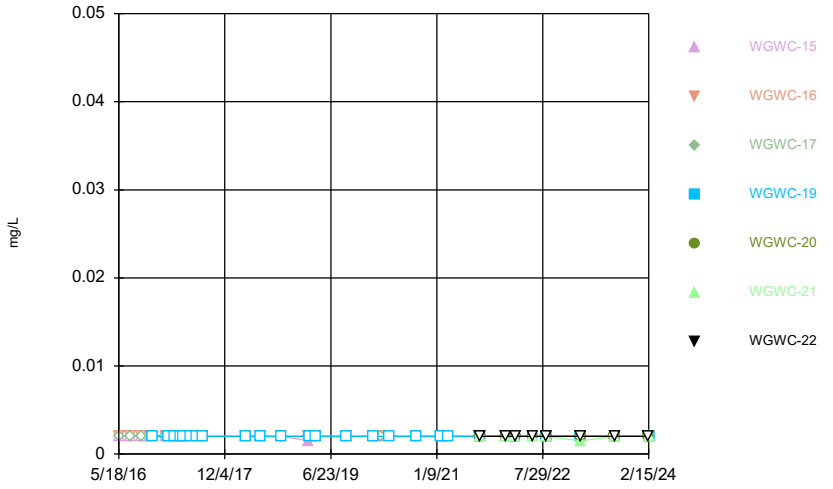
Time Series



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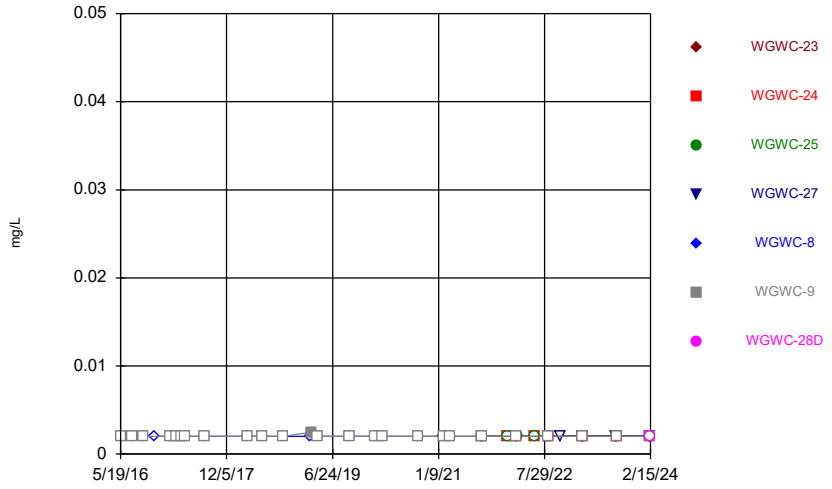

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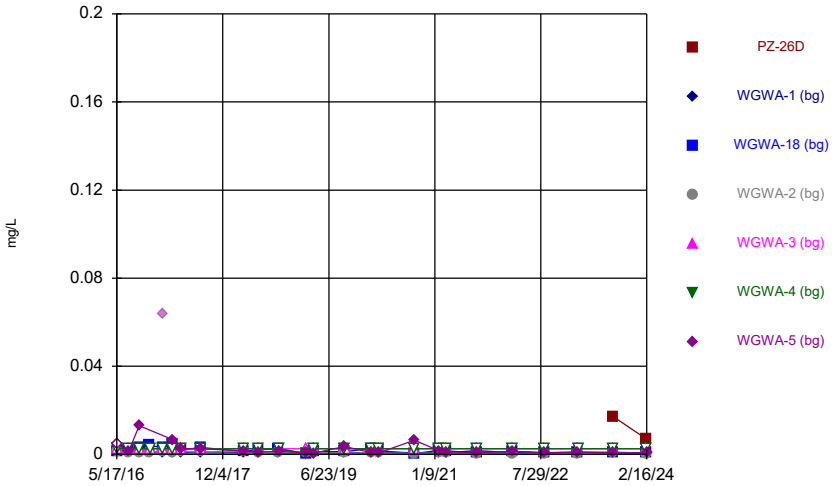
Time Series



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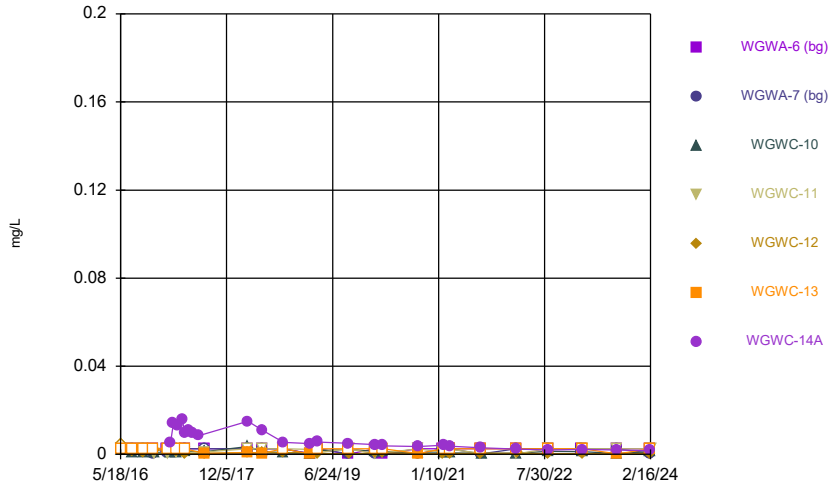
Hollow symbols indicate censored values.

Time Series



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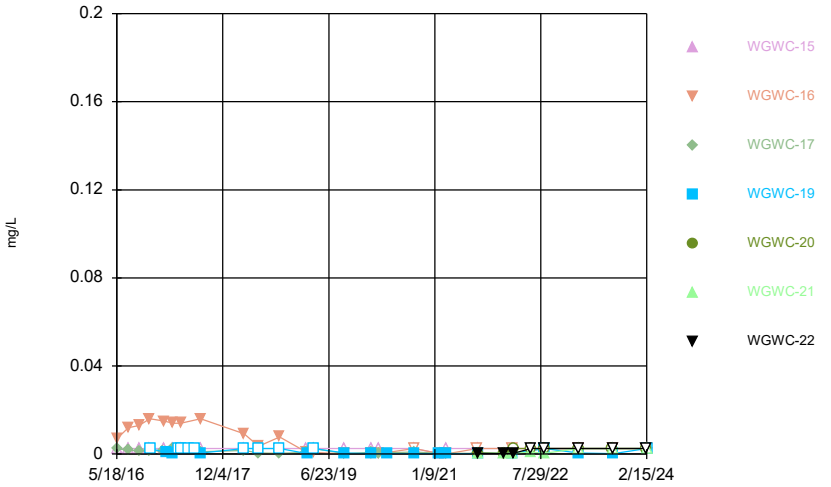
Time Series



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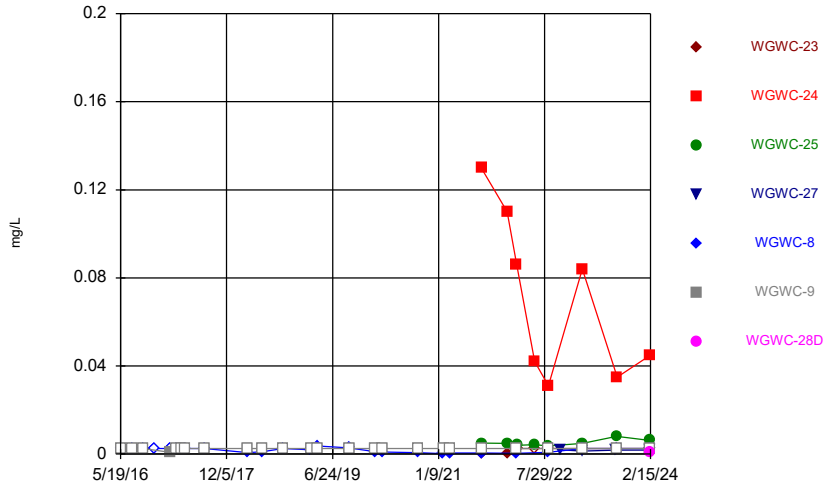

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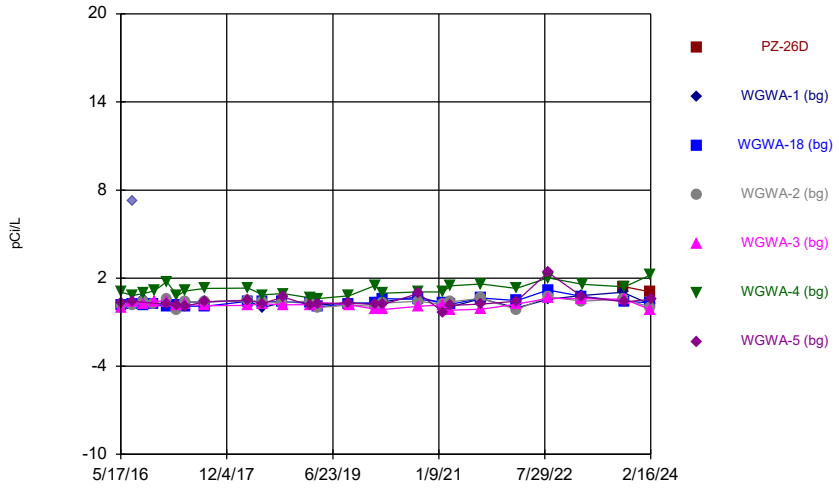
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/18/2024 12:31 PM View: Analysis
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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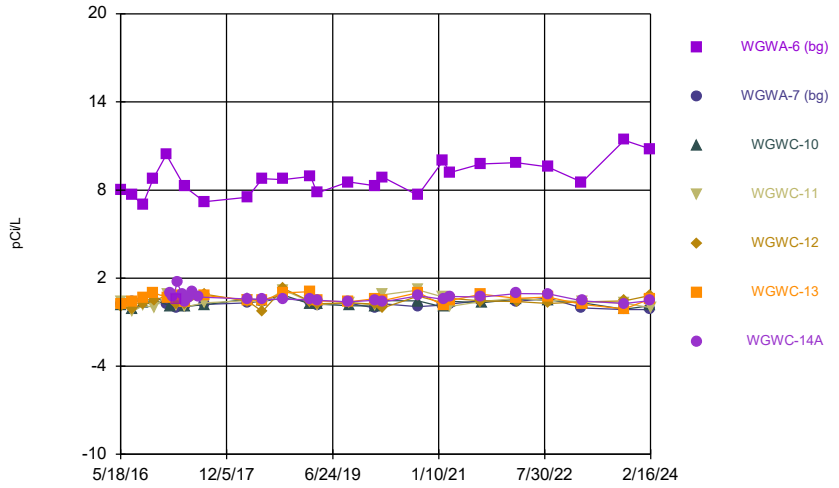
Time Series



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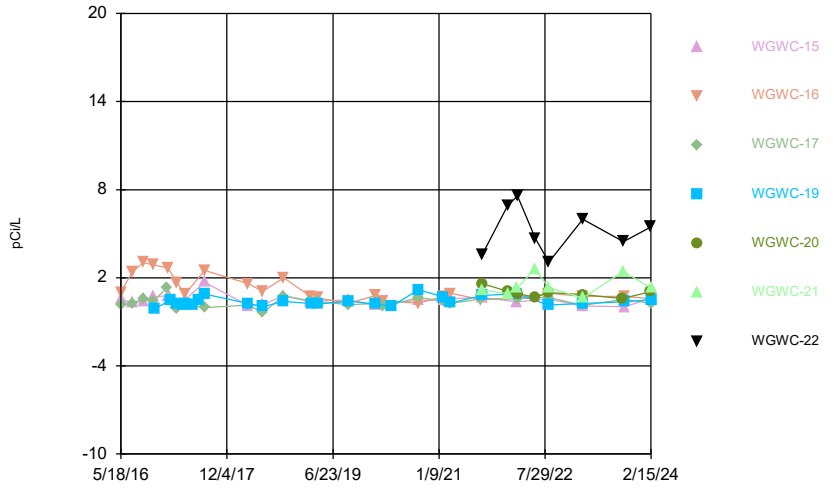
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Time Series



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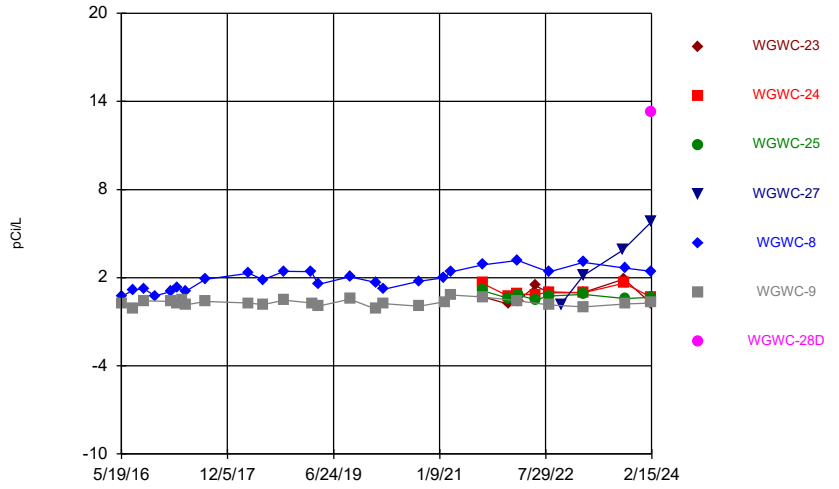
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Time Series



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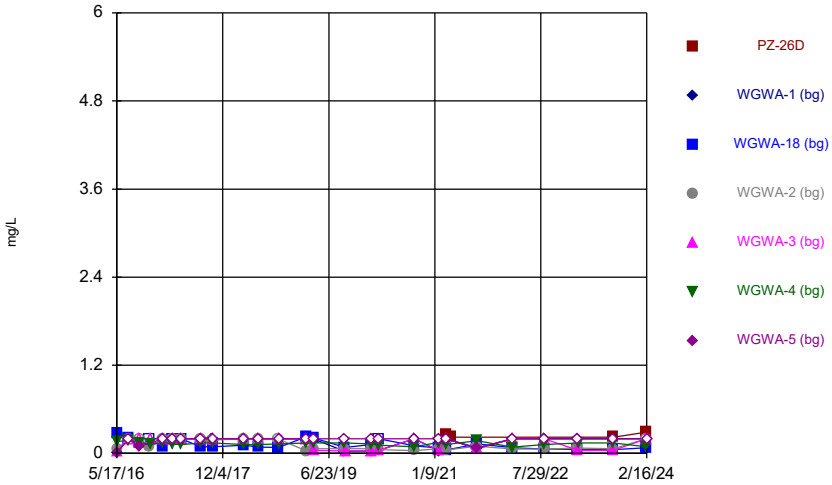
Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride, total Analysis Run 4/11/2024 4:56 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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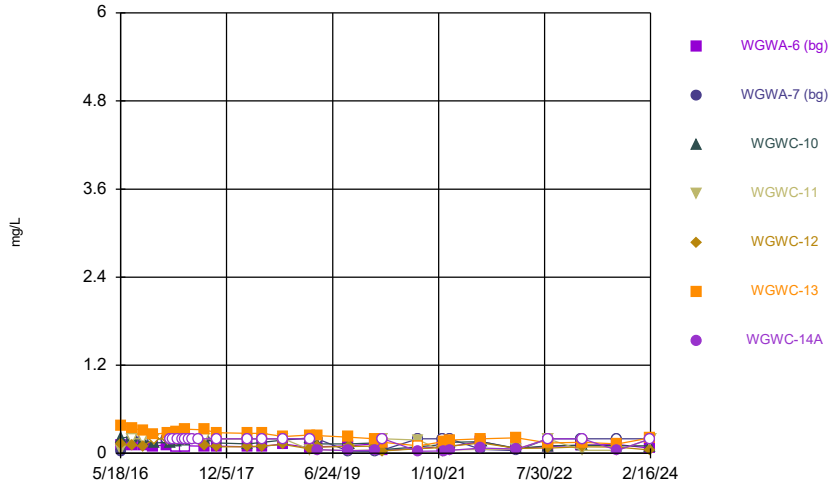
Time Series



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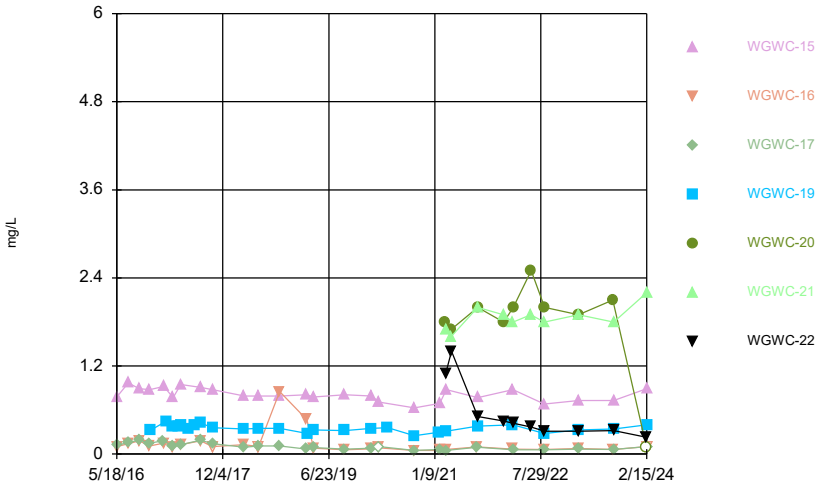

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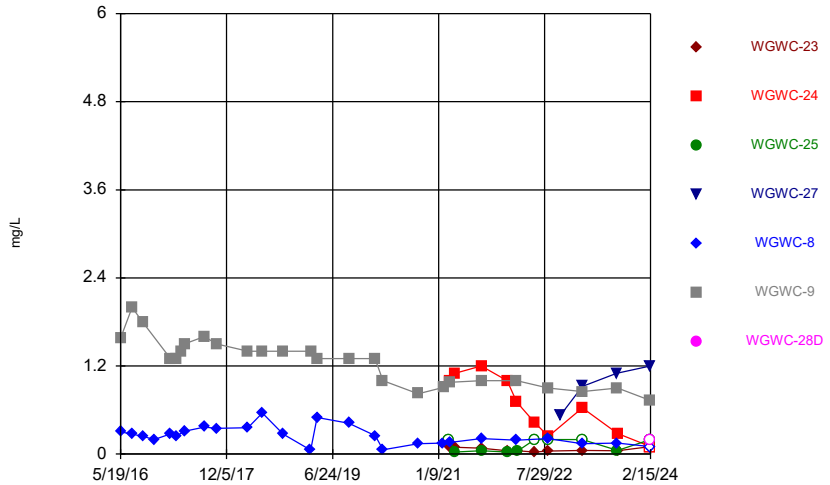

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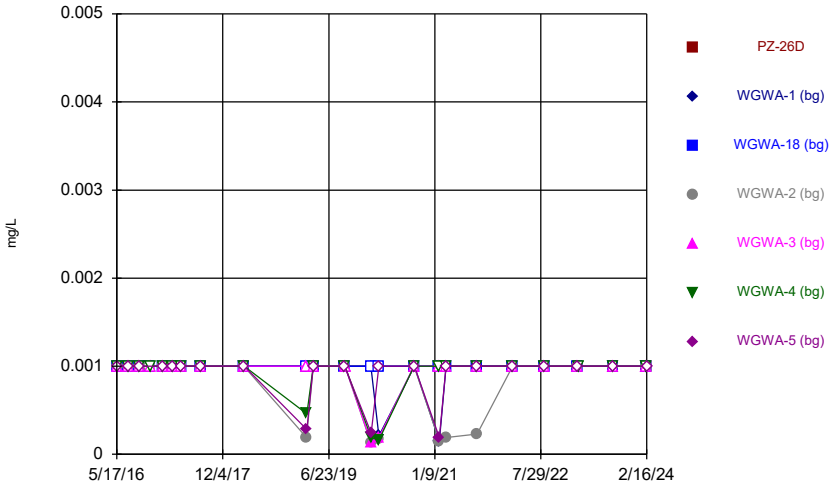

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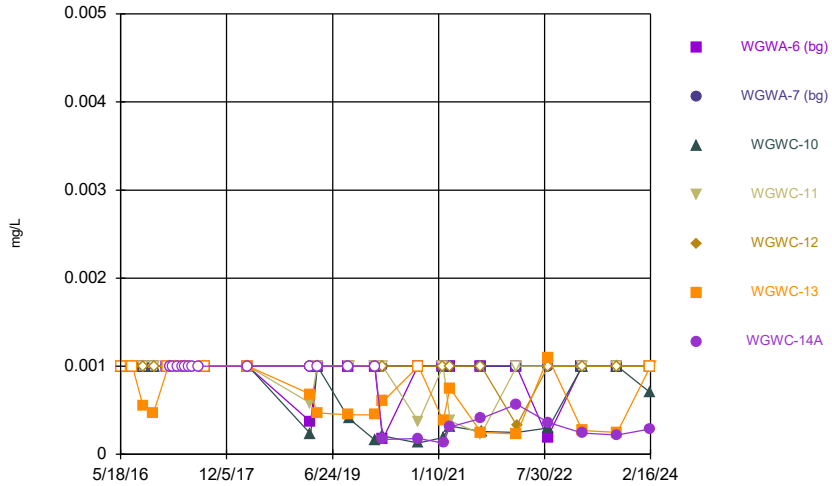

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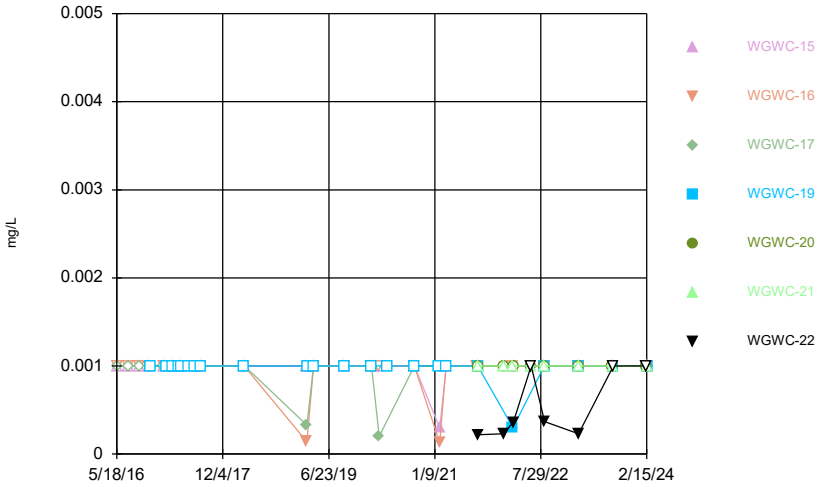

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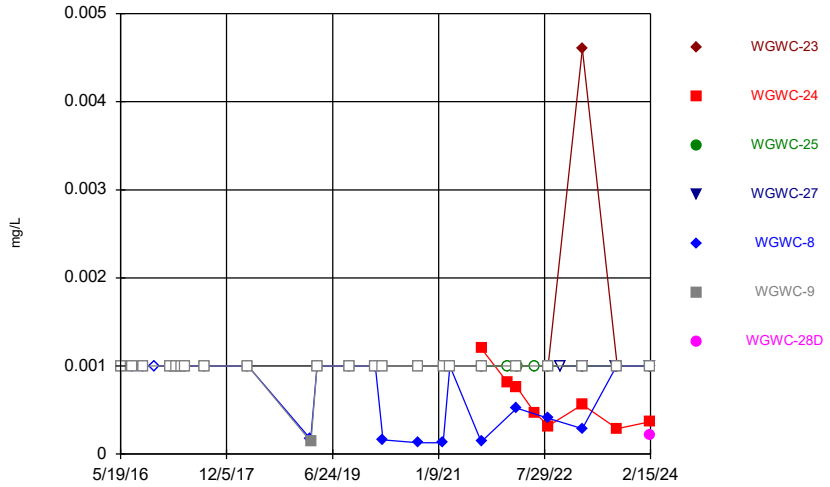

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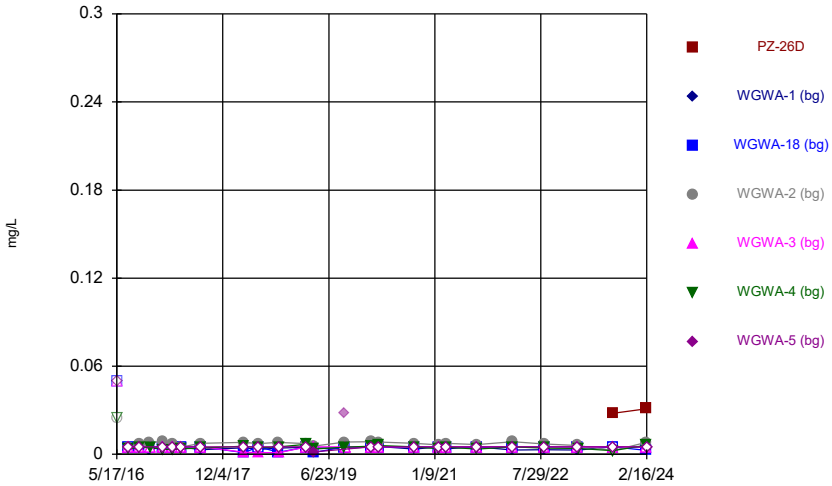

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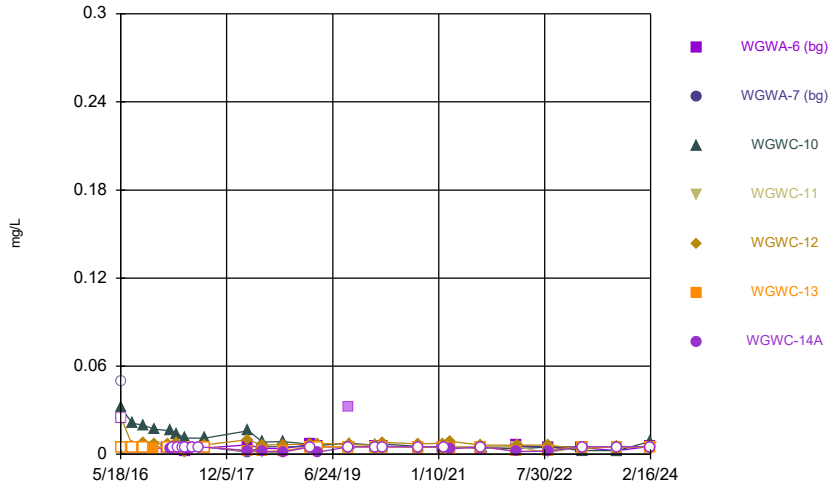

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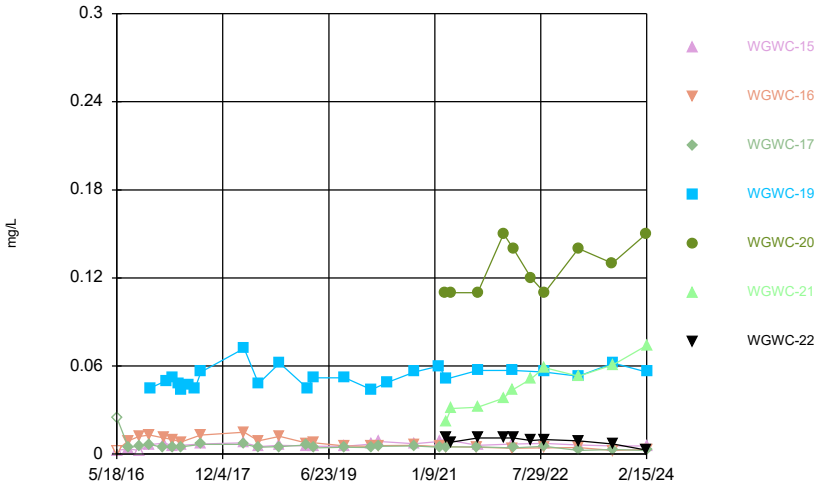

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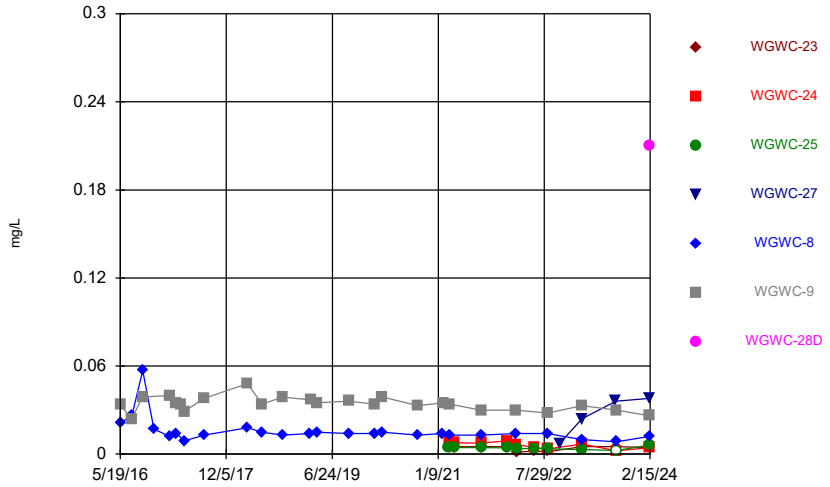

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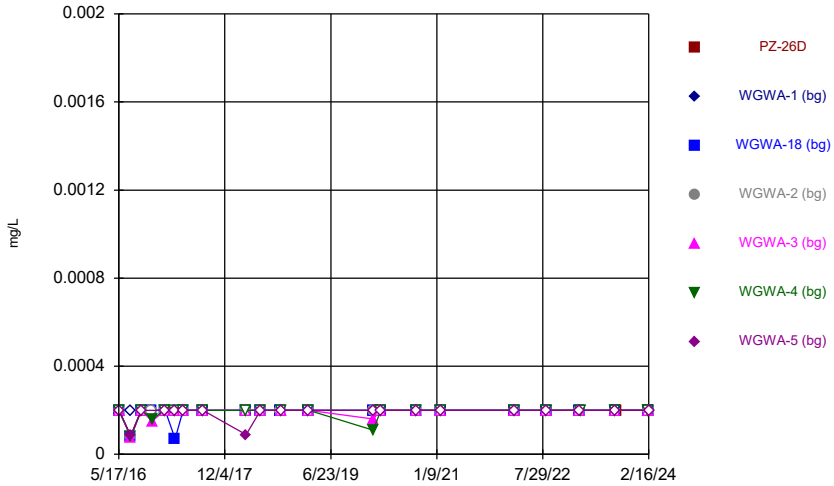

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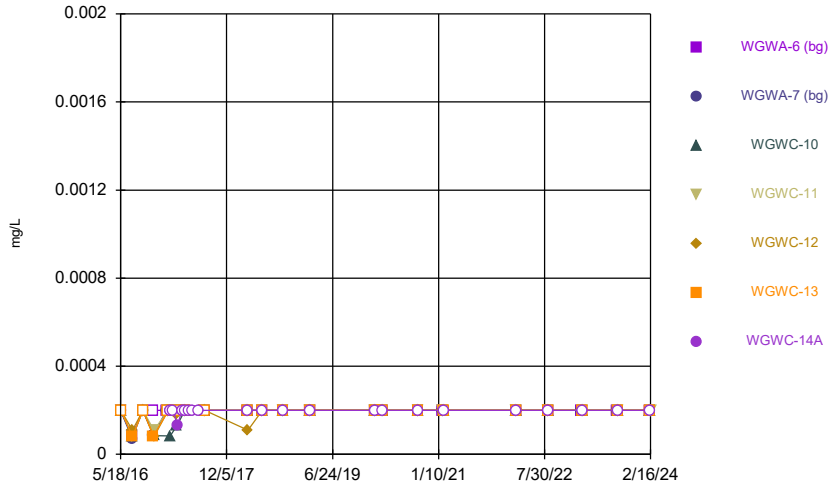
Time Series



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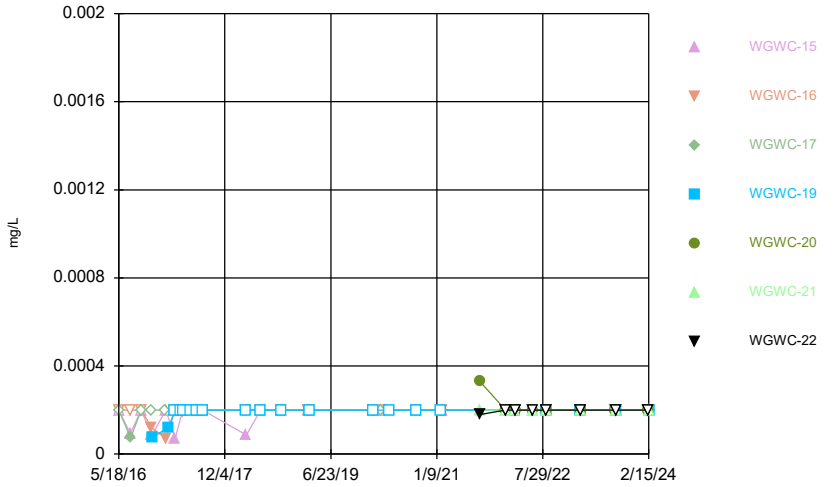

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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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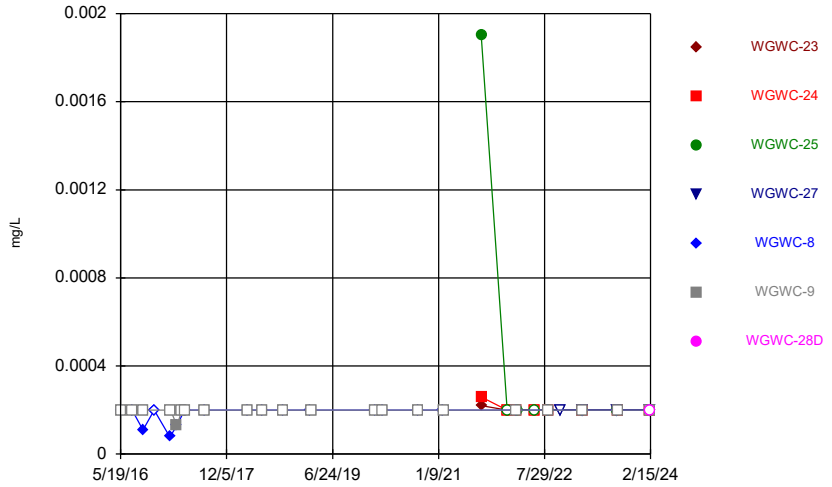

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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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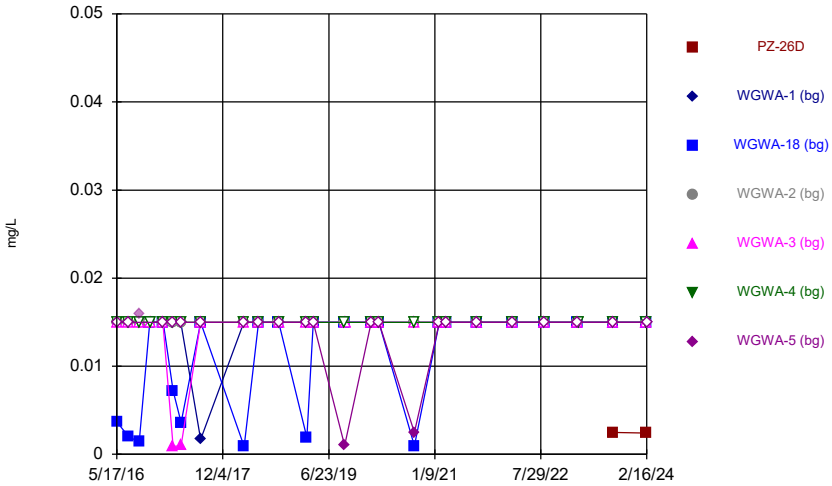
Time Series



Constituent: Molybdenum Analysis Run 4/11/2024 4:57 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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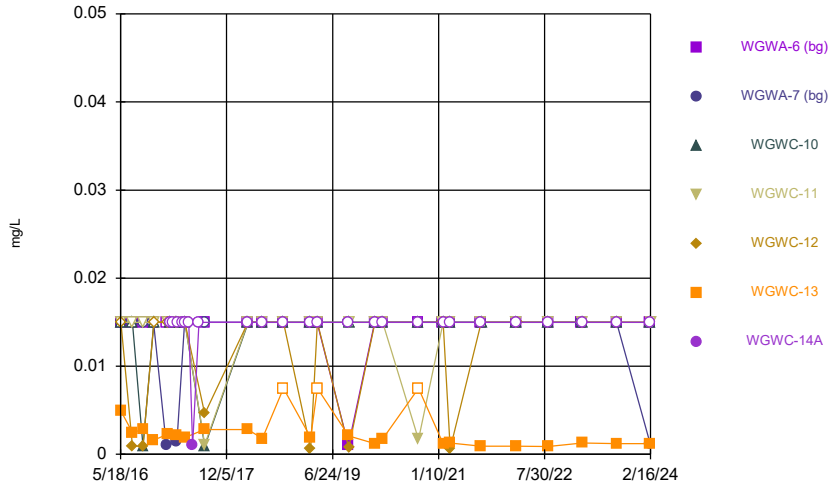
Hollow symbols indicate censored values.

Time Series



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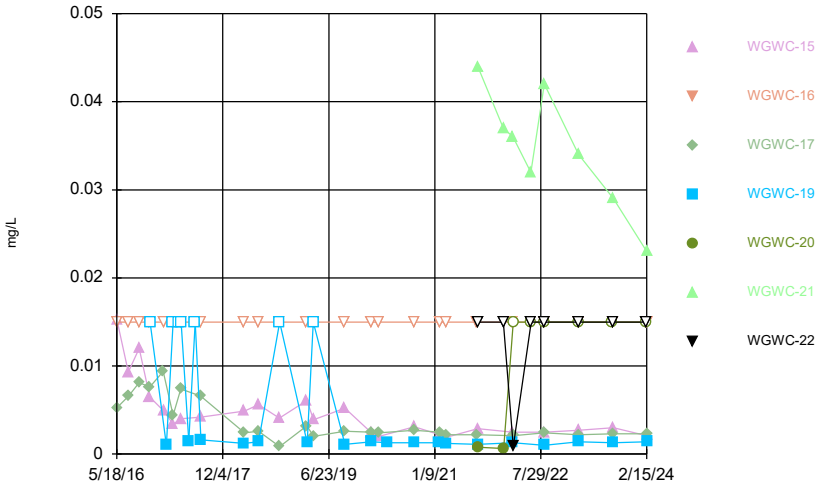

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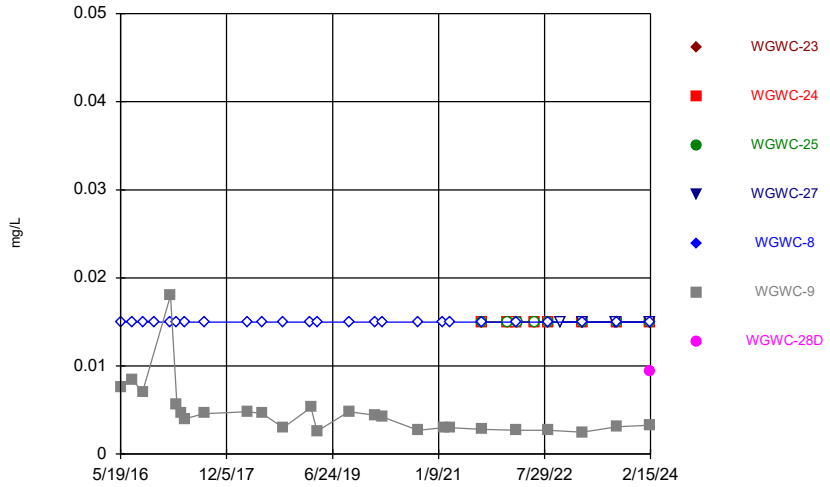

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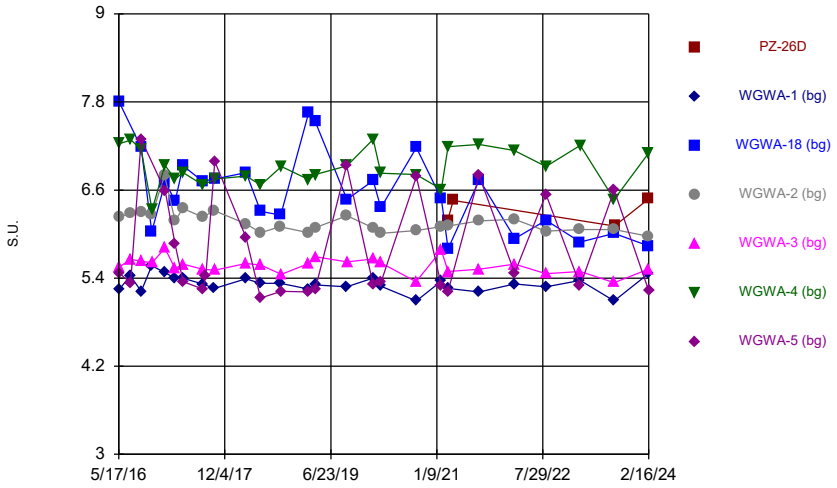
Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Time Series



Constituent: pH, Field Analysis Run 4/11/2024 4:57 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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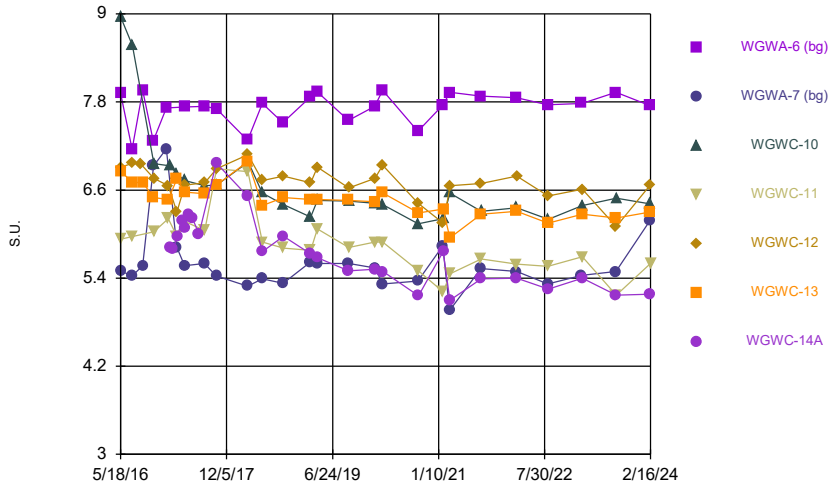
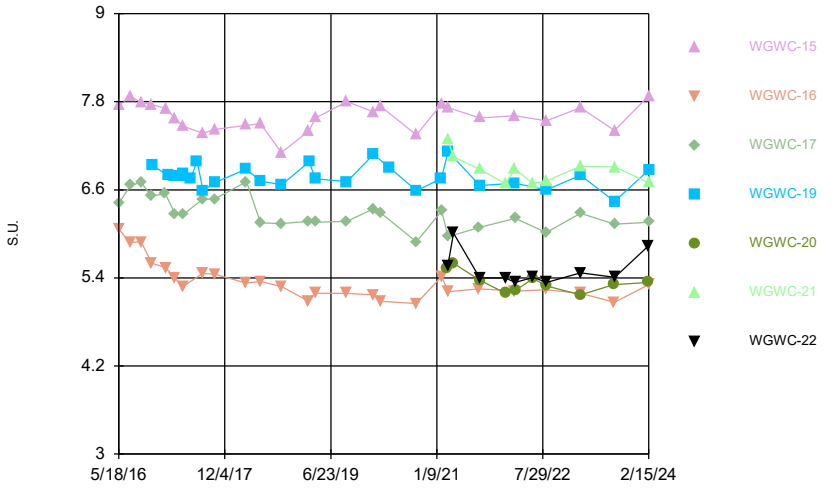
Time Series



Constituent: pH, Field Analysis Run 4/11/2024 4:57 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

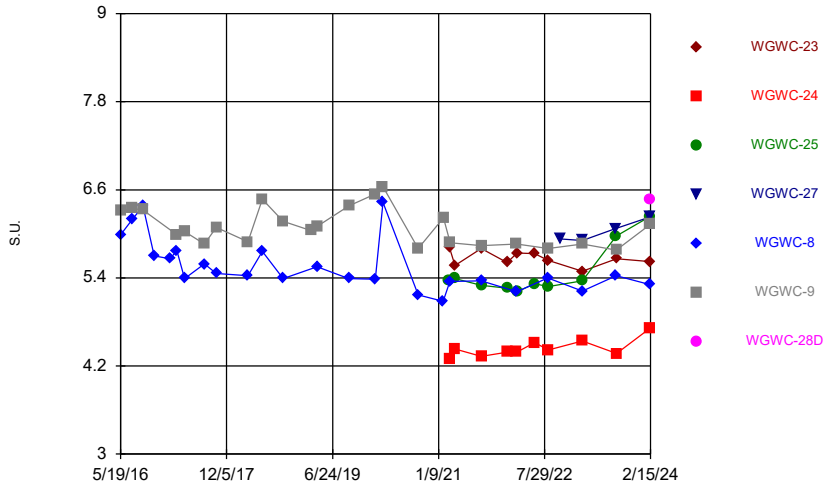
Time Series



Constituent: pH, Field Analysis Run 4/11/2024 4:57 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

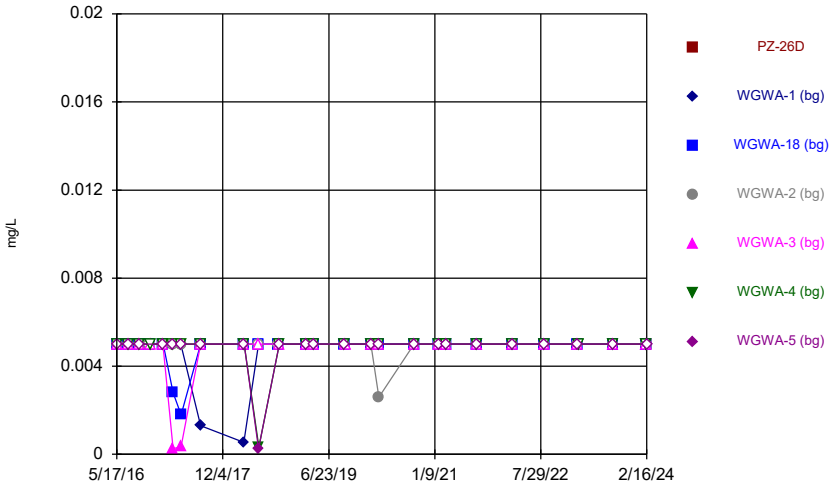
Time Series



Constituent: pH, Field Analysis Run 4/11/2024 4:57 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

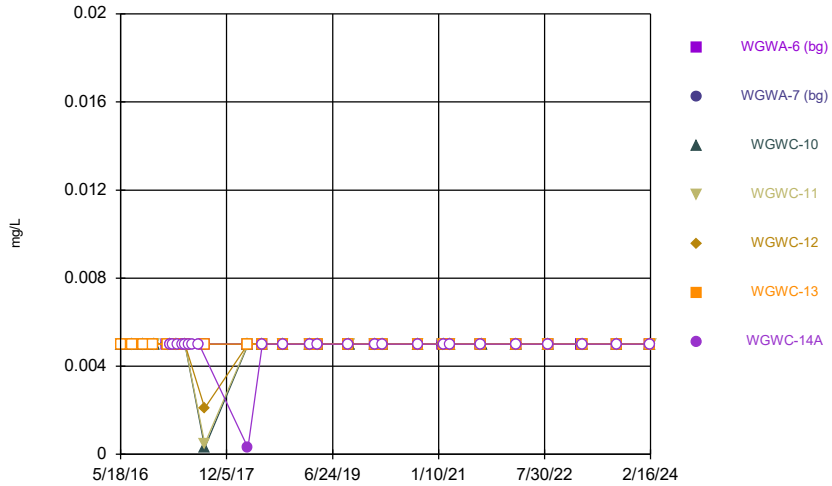
Time Series



Constituent: Selenium Analysis Run 4/11/2024 4:57 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

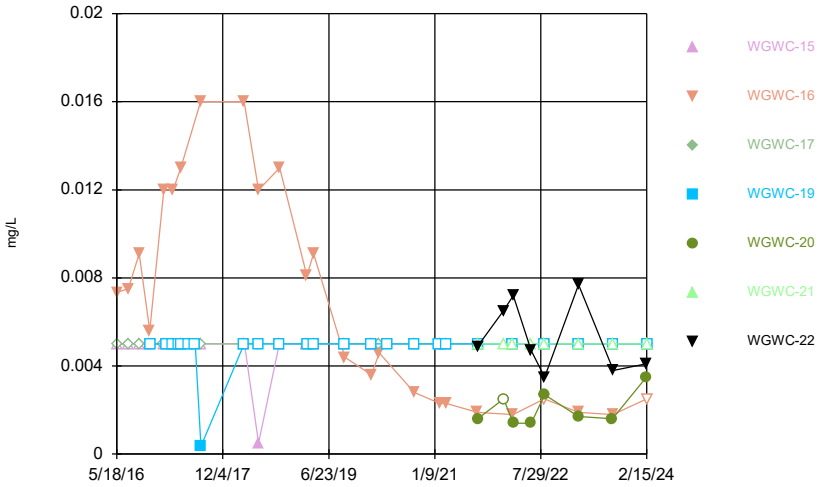
Time Series



Constituent: Selenium Analysis Run 4/11/2024 4:57 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

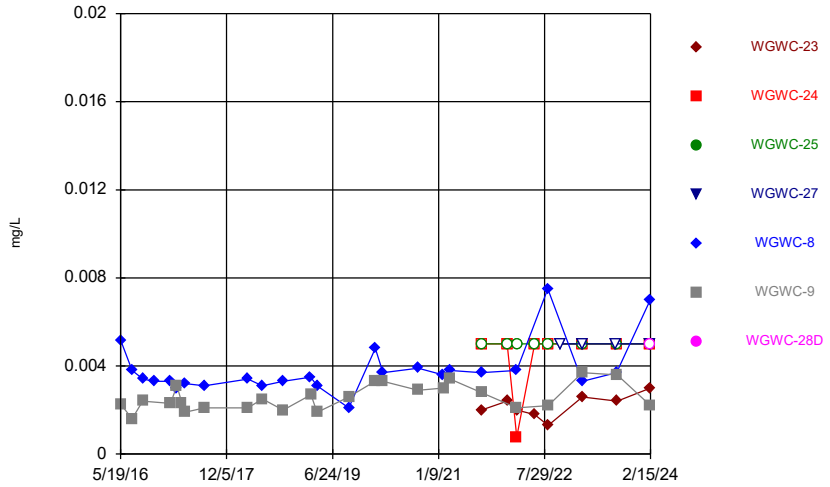
Time Series



Constituent: Selenium Analysis Run 4/11/2024 4:57 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

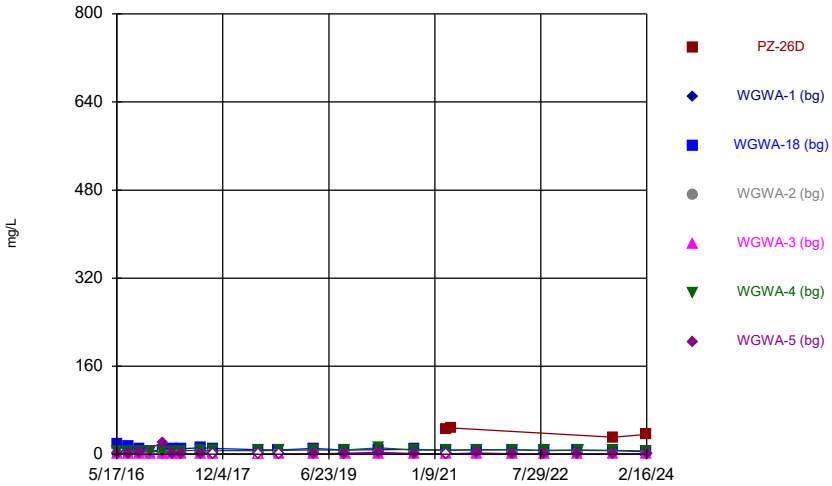
Time Series



Constituent: Selenium Analysis Run 4/11/2024 4:57 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

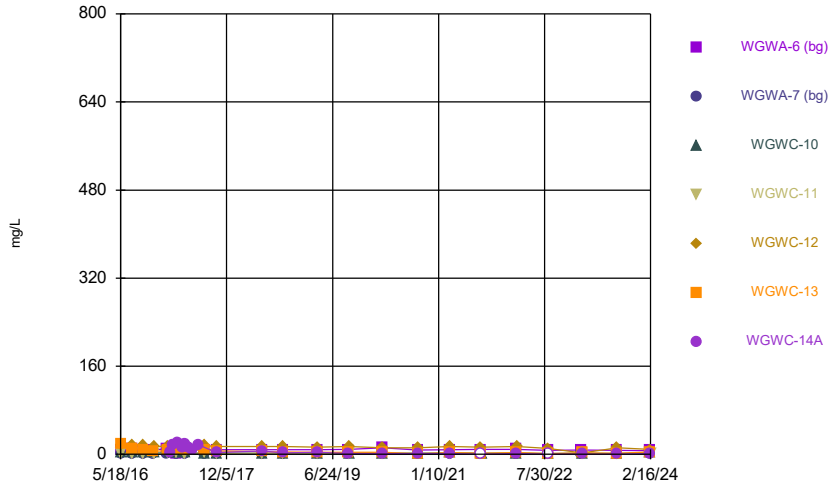
Time Series



Constituent: Sulfate as SO4 Analysis Run 4/11/2024 4:57 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

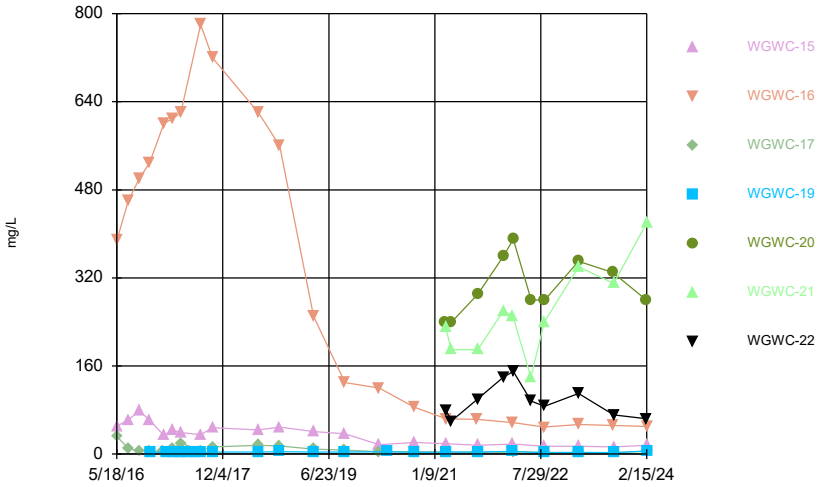
Time Series



Constituent: Sulfate as SO4 Analysis Run 4/11/2024 4:57 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

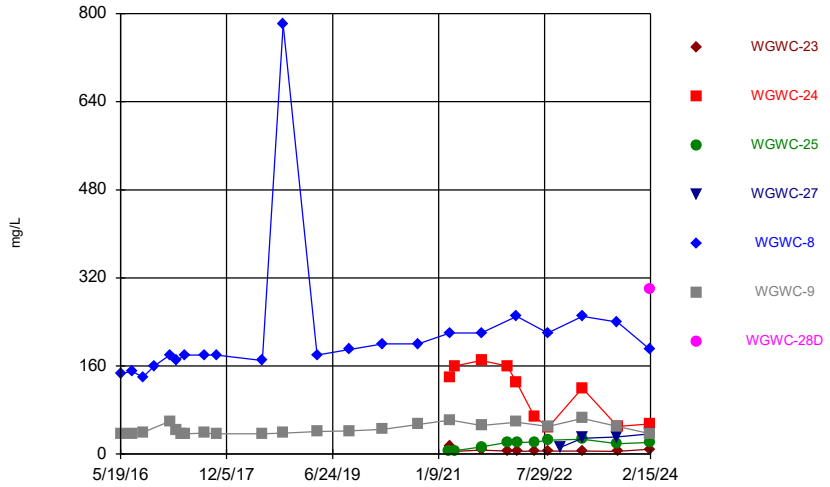
Time Series



Constituent: Sulfate as SO4 Analysis Run 4/11/2024 4:57 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

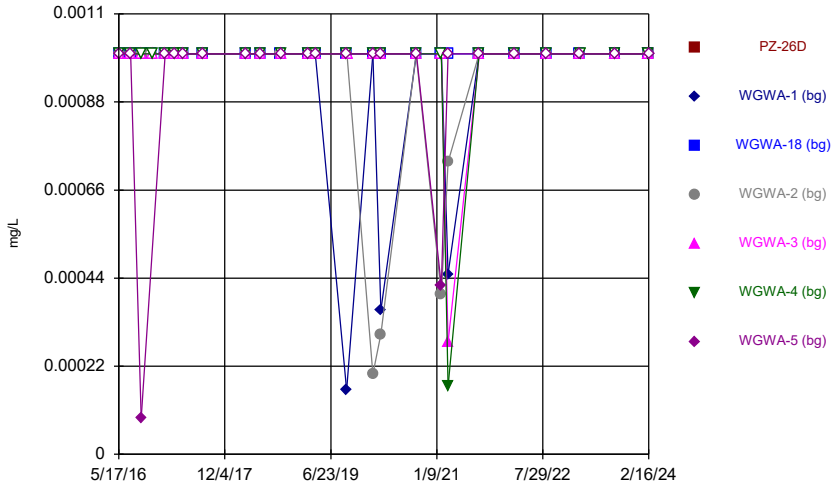
Time Series



Constituent: Sulfate as SO4 Analysis Run 4/11/2024 4:57 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

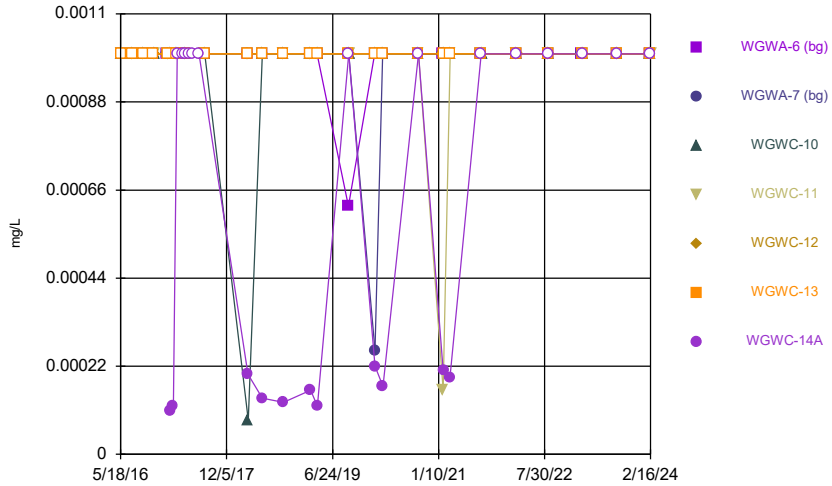
Time Series



Constituent: Thallium Analysis Run 4/11/2024 4:57 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

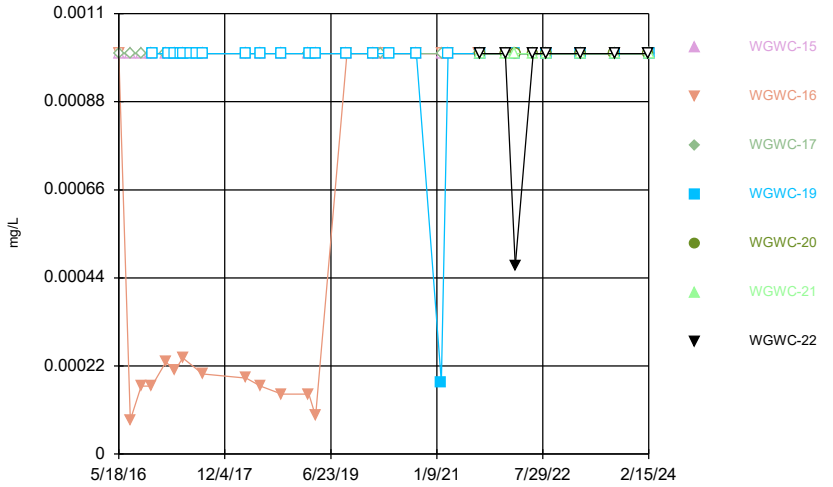
Time Series



Constituent: Thallium Analysis Run 4/11/2024 4:57 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

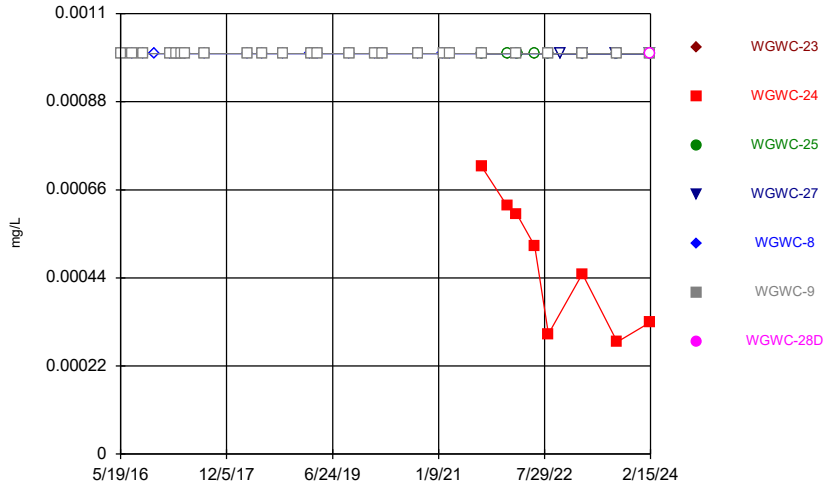
Time Series



Constituent: Thallium Analysis Run 4/11/2024 4:57 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

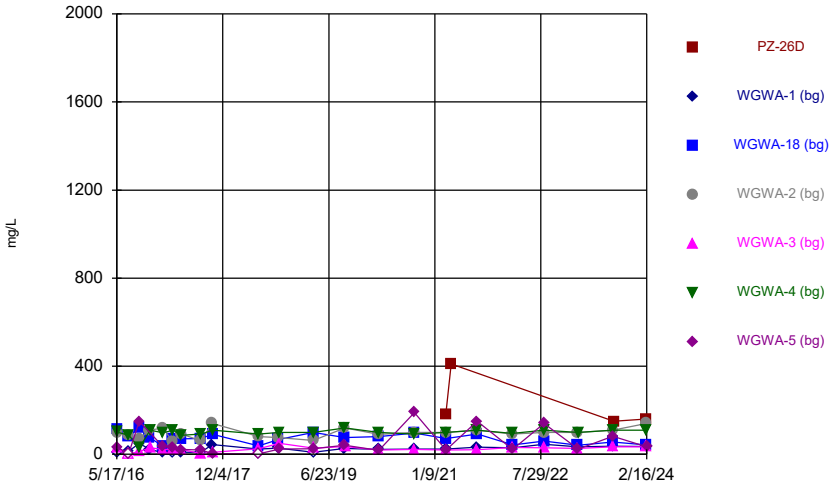
Time Series



Constituent: Thallium Analysis Run 4/11/2024 4:57 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

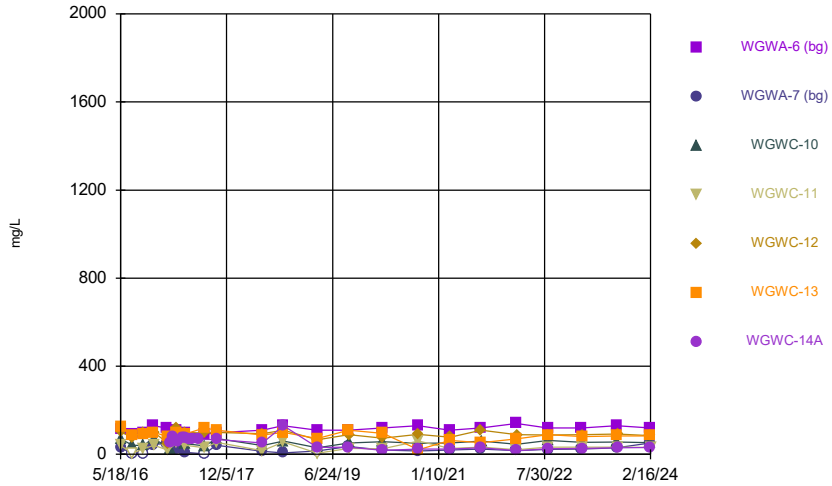
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/11/2024 4:57 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

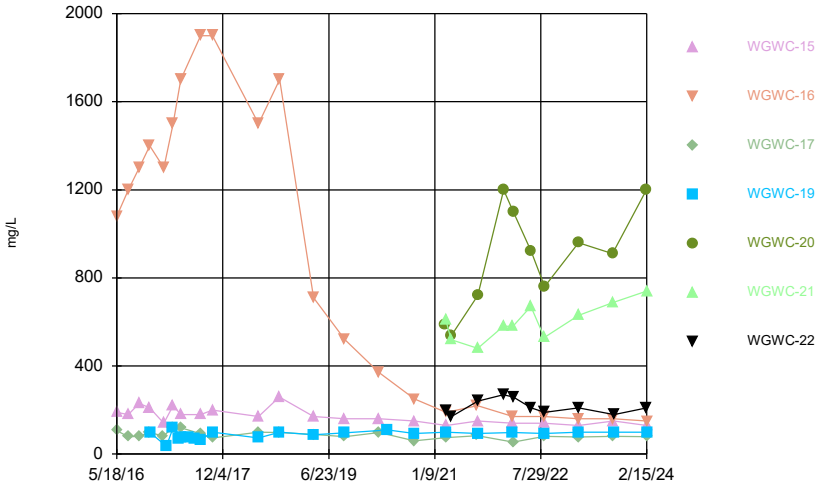
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/11/2024 4:57 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

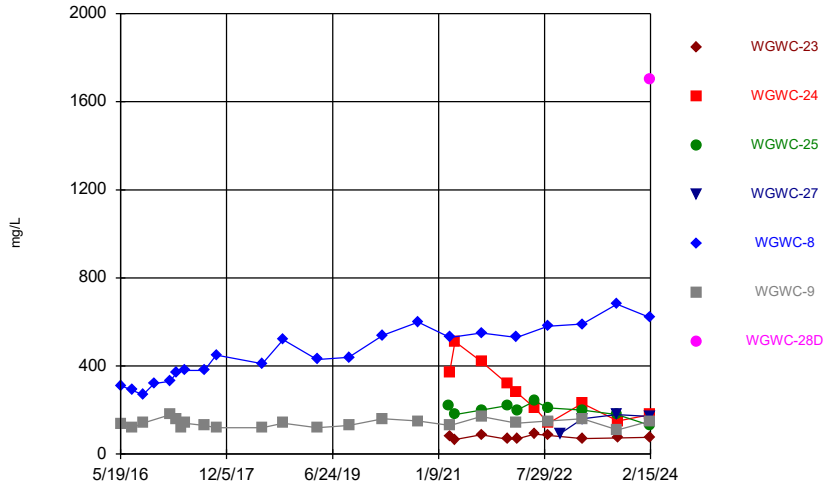
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/11/2024 4:57 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/11/2024 4:57 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
5/17/2016		<0.002	<0.002	<0.002			
5/18/2016					<0.002	<0.002	<0.002
7/19/2016		<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	
9/14/2016							<0.002
11/9/2016		<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	
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
4/24/2017		<0.002		<0.002			
4/25/2017			<0.002		<0.002	<0.002	<0.002
8/8/2017		0.0022 (J)	<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
2/25/2019		<0.002		<0.002			
2/26/2019			<0.002		<0.002	<0.002	<0.002
2/3/2020		<0.002		<0.002			
2/4/2020					<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
2/2/2021		0.00062 (J)	<0.002	<0.002	<0.002	<0.002	
2/3/2021							<0.002
3/10/2021			<0.002	<0.002	<0.002	<0.002	<0.002
3/11/2021		<0.002					
8/23/2021				<0.002			
8/24/2021		<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
3/3/2022			<0.002				
8/15/2022		<0.002		<0.002			<0.002
8/16/2022			<0.002		<0.002	0.00051 (J)	
2/14/2023		<0.002	<0.002	<0.002	<0.002		<0.002
2/15/2023						<0.002	
8/18/2023		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/21/2023	0.00038 (J)						
2/13/2024		<0.002	<0.002	<0.002	<0.002	<0.002	
2/15/2024	<0.002						
2/16/2024							<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
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	<0.002					
9/14/2016			<0.002	<0.002	<0.002	<0.002	
11/9/2016	<0.002						
11/10/2016		<0.002				<0.002	
11/11/2016			<0.002	<0.002	<0.002		
1/18/2017	<0.002	<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	<0.002					
8/9/2017						<0.002	
8/10/2017			<0.002	<0.002	0.0023 (J)		
3/28/2018	<0.002	<0.002					
3/29/2018				<0.002	<0.002	<0.002	<0.002
3/30/2018			<0.002				
2/26/2019	<0.002	<0.002					
2/27/2019			<0.002	<0.002	<0.002	<0.002	<0.002
2/4/2020	<0.002						
2/5/2020		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/17/2020	<0.002	<0.002					
3/18/2020			<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	<0.002		
2/4/2021			<0.002			<0.002	<0.002
3/10/2021		<0.002					
3/11/2021	<0.002		<0.002			<0.002	<0.002
3/12/2021				<0.002	<0.002		
8/24/2021	<0.002	<0.002					
8/25/2021				<0.002	<0.002	<0.002	<0.002
8/26/2021			<0.002				
3/1/2022	<0.002						
3/3/2022		<0.002	<0.002	<0.002		<0.002	<0.002
3/4/2022					<0.002		
8/15/2022	<0.002						
8/16/2022		<0.002		0.00053 (J)			
8/18/2022					<0.002	<0.002	
8/19/2022			<0.002				<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
2/14/2023	<0.002	<0.002					
2/16/2023			<0.002	<0.002	<0.002	<0.002	<0.002
8/18/2023	<0.002	<0.002					
8/21/2023			<0.002	<0.002	<0.002	<0.002	<0.002
2/13/2024	<0.002	<0.002					
2/14/2024					<0.002		
2/15/2024			<0.002			<0.002	<0.002
2/16/2024				<0.002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	<0.002	<0.002	<0.002				
7/19/2016	<0.002	<0.002					
7/20/2016			<0.002				
9/14/2016	<0.002	<0.002	<0.002				
11/10/2016	<0.002	<0.002	<0.002				
11/11/2016				<0.002			
1/20/2017			<0.002				
1/24/2017	<0.002	<0.002					
2/6/2017				<0.002			
3/14/2017	<0.002		<0.002				
3/15/2017		<0.002		<0.002			
4/11/2017				<0.002			
4/25/2017	<0.002	<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	<0.002				
8/10/2017				<0.002			
3/29/2018		<0.002		<0.002			
3/30/2018	<0.002		<0.002				
2/26/2019			<0.002				
2/27/2019	<0.002	<0.002					
2/28/2019				<0.002			
2/7/2020	<0.002	<0.002	<0.002	<0.002			
3/18/2020	<0.002	<0.002	<0.002				
5/4/2020				<0.002			
2/3/2021				<0.002			
2/4/2021	<0.002	<0.002	<0.002				
3/11/2021		<0.002	<0.002	<0.002			
3/12/2021	<0.002						
8/25/2021		<0.002	<0.002				
8/26/2021	<0.002			<0.002	<0.002	0.00076 (J)	<0.002
1/11/2022						<0.002	0.00078 (J)
1/12/2022					0.00066 (J)		
3/3/2022	<0.002	<0.002		<0.002		0.00053 (J)	
3/4/2022			<0.002		0.0011 (J)		0.00082 (J)
6/6/2022						<0.002	
6/7/2022					<0.002		0.00054 (J)
8/16/2022			<0.002			0.00055 (J)	
8/17/2022	<0.002	<0.002		0.00058 (J)			
8/18/2022					<0.002		
8/19/2022							<0.002
2/15/2023	<0.002	<0.002					0.0012 (J)
2/16/2023			<0.002	<0.002	<0.002	<0.002	
8/15/2023					0.00069 (J)		
8/18/2023		<0.002					
8/21/2023	<0.002		<0.002	<0.002		<0.002	<0.002
2/13/2024					0.00044 (J)		
2/14/2024							0.00076 (J)
2/15/2024	<0.002	<0.002	<0.002	<0.002		<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9	WGWC-28D
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	<0.002	
1/11/2022	0.0012 (J)	<0.002	<0.002				
3/3/2022		<0.002			<0.002	0.008	
3/4/2022	0.0018 (J)		<0.002				
6/6/2022	0.0013 (J)	<0.002					
6/7/2022			<0.002				
8/16/2022					0.011		
8/17/2022	<0.002		<0.002			0.0043	
8/18/2022		<0.002					
10/19/2022				<0.002			
2/15/2023	0.0022	<0.002	<0.002			0.00048 (J)	
2/16/2023				0.00047 (J)	0.00064 (J)		
8/15/2023				0.0015 (J)			
8/18/2023			<0.002		0.0079		
8/21/2023	<0.002	<0.002				0.0011 (J)	
2/13/2024					<0.002		
2/14/2024		<0.002				0.0063	<0.002
2/15/2024	<0.002		<0.002	0.00056 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
5/17/2016		<0.001	<0.001	<0.001			
5/18/2016					<0.001	<0.001	<0.001
7/19/2016		<0.001	0.00061 (J)	<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	
9/14/2016							0.00069 (J)
11/9/2016		<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)	
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
4/24/2017		<0.001		<0.001			
4/25/2017			0.00062 (J)		<0.001	<0.001	<0.001
8/8/2017		<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
6/13/2018		0.001 (J)	0.00057 (J)				<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				
10/3/2018					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
4/1/2019		<0.001		<0.001			
4/2/2019			<0.001		<0.001	<0.001	<0.001
9/16/2019		<0.001					<0.001
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
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
9/21/2020				<0.001	<0.001	<0.001	
9/22/2020		<0.001	<0.001				<0.001
2/2/2021		<0.001	<0.001	<0.001	<0.001	<0.001	
2/3/2021							<0.001
3/10/2021			<0.001	0.00063 (J)	<0.001	0.00036 (J)	<0.001
3/11/2021		<0.001					
8/23/2021				<0.001			
8/24/2021		<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
3/3/2022			<0.001				
8/15/2022		<0.001		<0.001			<0.001
8/16/2022			<0.001		<0.001	<0.001	
2/14/2023		<0.001	<0.001	<0.001	<0.001		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
2/15/2023						<0.001	
8/18/2023		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/21/2023	<0.001						
2/13/2024		<0.001	0.00093 (J)	<0.001	<0.001	<0.001	
2/15/2024	<0.001						
2/16/2024							<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
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	<0.001					
9/14/2016			<0.001	<0.001	<0.001	<0.001	
11/9/2016	<0.001						
11/10/2016		<0.001				<0.001	
11/11/2016			<0.001	<0.001	<0.001		
1/18/2017	0.0008 (J)	0.001 (J)					
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	<0.001					
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	<0.001					
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	<0.001					
8/9/2017						<0.001	
8/10/2017			<0.001	<0.001	0.00048 (J)		
3/28/2018	<0.001	<0.001					
3/29/2018				<0.001	<0.001	0.00067 (J)	<0.001
3/30/2018			<0.001				
6/13/2018	<0.001						
6/14/2018		0.0005 (J)	0.0005 (J)	<0.001	0.00052 (J)	0.00093 (J)	<0.001
10/2/2018	<0.001						
10/3/2018		<0.001					
10/4/2018			0.00089 (J)	0.00054 (J)	<0.001	0.0015	0.0017
2/26/2019	<0.001	<0.001					
2/27/2019			<0.001	<0.001	<0.001	0.00036 (J)	<0.001
4/2/2019	<0.001	<0.001					
4/3/2019				<0.001	<0.001	0.00053 (J)	<0.001
4/4/2019			<0.001				
9/16/2019	0.00036 (J)						
9/18/2019		<0.001				0.00039 (J)	<0.001
9/19/2019			0.00038 (J)	<0.001	<0.001		
2/4/2020	<0.001						
2/5/2020		<0.001	0.00035 (J)	<0.001	<0.001	0.00048 (J)	<0.001
3/17/2020	<0.001	<0.001					
3/18/2020			<0.001	<0.001	<0.001		
3/19/2020						0.00039 (J)	<0.001
9/22/2020	<0.001	<0.001					
9/23/2020			<0.001		<0.001		
9/24/2020				0.00051 (J)		<0.001	<0.001
2/2/2021		<0.001					
2/3/2021	<0.001			<0.001	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
2/4/2021			<0.001			0.00038 (J)	<0.001
3/10/2021		<0.001					
3/11/2021	<0.001		0.00031 (J)			0.00035 (J)	<0.001
3/12/2021				<0.001	<0.001		
8/24/2021	<0.001	<0.001					
8/25/2021				<0.001	<0.001	<0.001	<0.001
8/26/2021			<0.001				
3/1/2022	<0.001						
3/3/2022		<0.001	<0.001	<0.001		<0.001	<0.001
3/4/2022					0.00037 (J)		
8/15/2022	<0.001						
8/16/2022		<0.001		<0.001			
8/18/2022					<0.001	0.00034 (J)	
8/19/2022			<0.001				<0.001
2/14/2023	<0.001	<0.001					
2/16/2023			<0.001	<0.001	<0.001	<0.001	<0.001
8/18/2023	<0.001	<0.001					
8/21/2023			<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2024	0.00098 (J)	0.00097 (J)					
2/14/2024					0.001		
2/15/2024			<0.001			<0.001	<0.001
2/16/2024				<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	0.00345	<0.001	<0.001				
7/19/2016	0.0031	0.0009 (J)					
7/20/2016			0.00058 (J)				
9/14/2016	0.0024	0.0014	<0.001				
11/10/2016	0.0023	0.0021	0.00082 (J)				
11/11/2016				<0.001			
1/20/2017			<0.001				
1/24/2017	0.0019	0.0015					
2/6/2017				<0.001			
3/14/2017	0.0016		<0.001				
3/15/2017		0.0014		<0.001			
4/11/2017				<0.001			
4/25/2017	0.0019	0.0014	0.00095 (J)				
4/26/2017				<0.001			
6/7/2017				<0.001			
7/11/2017				<0.001			
8/9/2017	0.0017	0.0013	<0.001				
8/10/2017				<0.001			
3/29/2018		0.0014		<0.001			
3/30/2018	0.0018		<0.001				
6/14/2018	0.002	<0.001	0.00076 (J)	<0.001			
10/3/2018	0.0024						
10/4/2018		0.0013	0.00088 (J)	<0.001			
2/26/2019			0.0005 (J)				
2/27/2019	0.0015	0.00046 (J)					
2/28/2019				<0.001			
4/2/2019				<0.001			
4/4/2019	0.0019	<0.001	<0.001				
9/18/2019	0.0016	<0.001	<0.001	<0.001			
2/7/2020	0.001	<0.001	0.00075 (J)	<0.001			
3/18/2020	0.00088 (J)	<0.001	0.00054 (J)				
5/4/2020				<0.001			
9/23/2020	0.00061 (J)	<0.001	0.00067 (J)	<0.001			
2/3/2021				<0.001			
2/4/2021	0.00069 (J)	<0.001	0.00035 (J)				
3/11/2021		<0.001	<0.001	<0.001			
3/12/2021	0.00084 (J)						
8/25/2021		<0.001	<0.001				
8/26/2021	0.0012			<0.001	0.00031 (J)	0.00057 (J)	<0.001
1/11/2022						0.00036 (J)	<0.001
1/12/2022					0.00052 (J)		
3/3/2022	0.00057 (J)	<0.001		<0.001		0.00053 (J)	
3/4/2022			<0.001		0.00078 (J)		0.00046 (J)
6/6/2022						0.00083 (J)	
6/7/2022					0.00033 (J)		0.00029 (J)
8/16/2022			<0.001			0.00028 (J)	
8/17/2022	0.00052 (J)	<0.001		<0.001			
8/18/2022					<0.001		
8/19/2022							<0.001
2/15/2023	<0.001	<0.001					<0.001
2/16/2023			<0.001	<0.001	<0.001	<0.001	
8/15/2023					<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
8/18/2023		<0.001					
8/21/2023	<0.001		<0.001	<0.001		<0.001	<0.001
2/13/2024					0.001		
2/14/2024							0.0011
2/15/2024	<0.001	<0.001	<0.001	<0.001		<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9	WGWC-28D
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	<0.001	0.0033	<0.001		0.0013	<0.001	
1/11/2022	<0.001	0.0017	<0.001				
3/3/2022		0.0029			0.0014	<0.001	
3/4/2022	<0.001		<0.001				
6/6/2022	<0.001	0.00054 (J)					
6/7/2022			<0.001				
8/16/2022					0.00097 (J)		
8/17/2022	<0.001		<0.001			<0.001	
8/18/2022		0.00028 (J)					
10/19/2022				<0.001			
2/15/2023	<0.001	<0.001	<0.001			<0.001	
2/16/2023				<0.001	<0.001		
8/15/2023				<0.001			
8/18/2023			<0.001		0.00087 (J)		
8/21/2023	<0.001	<0.001				<0.001	
2/13/2024					0.0017		
2/14/2024		0.0012				<0.001	0.0022
2/15/2024	<0.001		0.00096 (J)	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
5/17/2016		0.041	0.0221	0.0308			
5/18/2016					0.0174	0.00723	0.0198
7/19/2016		0.038	0.018	0.022			0.015
7/20/2016					0.012	0.0051	
9/13/2016		0.029	0.021	0.021	0.013	0.0058	
9/14/2016							0.062
11/9/2016		0.041	0.011	0.025			
11/10/2016					0.013	0.0063	
1/17/2017		0.044		0.017			
1/18/2017					0.014	0.0059	
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
4/24/2017		0.039		0.019			
4/25/2017			0.017		0.015	0.0056	0.018
8/8/2017		0.044	0.021	0.022	0.015		
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
6/13/2018		0.045	0.013				0.016
6/14/2018				0.02	0.013	0.0057	
9/24/2018				0.02			
9/27/2018		0.047					
9/28/2018			0.014				
10/3/2018					0.014	0.0054	0.016
2/25/2019		0.049		0.027			
2/26/2019			0.015		0.014	0.012	0.02
4/1/2019		0.044		0.027			
4/2/2019			0.014		0.014	0.0056	0.016
9/16/2019		0.05					0.027
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
2/5/2020			0.02				
3/16/2020		0.046		0.026			
3/17/2020			0.013		0.013	0.0059 (J)	0.017
9/21/2020				0.024	0.015	0.006 (J)	
9/22/2020		0.048	0.015				0.032
2/2/2021		0.05	0.017	0.025	0.015	0.006 (J)	
2/3/2021							0.015
3/10/2021			0.016	0.024	0.014	0.0057 (J)	0.016
3/11/2021		0.046					
8/23/2021				0.023			
8/24/2021		0.049				0.0055 (J)	0.028
8/25/2021			0.015		0.014		
2/28/2022						0.0053 (J)	
3/1/2022		0.047		0.02	0.014		0.017
3/3/2022			0.013				
8/15/2022		0.045		0.022			0.029
8/16/2022			0.012		0.014	0.0062 (J)	
2/14/2023		0.05	0.013	0.022	0.015		0.018

Time Series

Constituent: Barium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
2/15/2023						0.0058 (J)	
8/18/2023		0.05	0.016	0.025	0.014	0.0055 (J)	0.016
8/21/2023	0.024						
2/13/2024		0.047	0.013	0.025	0.014	0.0062 (J)	
2/15/2024	0.021						
2/16/2024							0.014

Time Series

Constituent: Barium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
5/18/2016	0.00518	0.0114	0.0391				
5/19/2016				0.031	0.0214	0.055	
7/19/2016	0.0049	0.012					
7/20/2016			0.028	0.029	0.019	0.039	
9/13/2016	0.006	0.011					
9/14/2016			0.035	0.031	0.02	0.04	
11/9/2016	0.0066						
11/10/2016		0.016				0.04	
11/11/2016			0.042	0.034	0.022		
1/18/2017	0.007	0.013					
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	0.014	0.01					
3/15/2017			0.04	0.032	0.024	0.058	
3/17/2017							0.046
4/11/2017							0.055
4/25/2017	0.0062	0.012					
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	0.0065	0.012					
8/9/2017						0.055	
8/10/2017			0.038	0.03	0.017		
3/28/2018	0.0059	0.01					
3/29/2018				0.028	0.017	0.061	0.028
3/30/2018			0.042				
6/13/2018	0.0067						
6/14/2018		0.012	0.038	0.03	0.015	0.055	0.023
10/2/2018	0.0066						
10/3/2018		0.011					
10/4/2018			0.04	0.035	0.017	0.046	0.036
2/26/2019	0.011	0.013					
2/27/2019			0.04	0.04	0.016	0.054	0.028
4/2/2019	0.0069	0.011					
4/3/2019				0.035	0.015	0.056	0.026
4/4/2019			0.04				
9/16/2019	0.0073 (J)						
9/18/2019		0.012				0.062	0.025
9/19/2019			0.038	0.033	0.016		
2/4/2020	0.013						
2/5/2020		0.012	0.061	0.047	0.016	0.052	0.077
3/17/2020	0.0081 (J)	0.012					
3/18/2020			0.035	0.038	0.016		
3/19/2020						0.072	0.031
9/22/2020	0.0079 (J)	0.013					
9/23/2020			0.035		0.016		
9/24/2020				0.061		0.038	0.034
2/2/2021		0.012					
2/3/2021	0.0079 (J)			0.039	0.015		

Time Series

Constituent: Barium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
2/4/2021			0.035			0.047	0.029
3/10/2021		0.011					
3/11/2021	0.0077 (J)		0.033			0.049	0.032
3/12/2021				0.045	0.017		
8/24/2021	0.0074 (J)	0.012					
8/25/2021				0.04	0.016	0.046	0.03
8/26/2021			0.032				
3/1/2022	0.0071 (J)						
3/3/2022		0.012	0.033	0.04		0.045	0.029
3/4/2022					0.016		
8/15/2022	0.0069 (J)						
8/16/2022		0.011		0.038			
8/18/2022					0.014	0.041	
8/19/2022			0.03				0.026
2/14/2023	0.0078 (J)	0.011					
2/16/2023			0.032	0.041	0.014	0.037	0.028
8/18/2023	0.0072 (J)	0.013					
8/21/2023			0.036	0.044	0.017	0.042	0.026
2/13/2024	0.0076 (J)	0.0099 (J)					
2/14/2024					0.017		
2/15/2024			0.034			0.037	0.027
2/16/2024				0.042			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	0.0206	0.0715	0.0219				
7/19/2016	0.019	0.069					
7/20/2016			0.019				
9/14/2016	0.02	0.066	0.017				
11/10/2016	0.02	0.069	0.02				
11/11/2016				0.0022 (J)			
1/20/2017			0.018				
1/24/2017	0.017	0.068					
2/6/2017				0.0018 (J)			
3/14/2017	0.018		0.019				
3/15/2017		0.065		0.0015 (J)			
4/11/2017				0.0014 (J)			
4/25/2017	0.018	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	0.02	0.069	0.017				
8/10/2017				0.0012 (J)			
3/29/2018		0.05		0.00097 (J)			
3/30/2018	0.021		0.015				
6/14/2018	0.022	0.046	0.013	0.0011 (J)			
10/3/2018	0.024						
10/4/2018		0.046	0.013	0.0012 (J)			
2/26/2019			0.012				
2/27/2019	0.023	0.028					
2/28/2019				<0.01			
4/2/2019				0.0013 (J)			
4/4/2019	0.022	0.027	0.011				
9/18/2019	0.026	0.032	0.011	<0.01			
2/7/2020	0.022	0.034	0.011	0.0065 (J)			
3/18/2020	0.021	0.034	0.012				
5/4/2020				<0.01			
9/23/2020	0.027	0.037	0.012	<0.01			
2/3/2021				<0.01			
2/4/2021	0.028	0.039	0.012				
3/11/2021		0.037	0.011	<0.01			
3/12/2021	0.028						
8/25/2021		0.035	0.011				
8/26/2021	0.029			<0.01	<0.01	0.0086 (J)	0.031
1/11/2022						0.0076 (J)	0.04
1/12/2022					<0.01		
3/3/2022	0.029	0.041		<0.01		0.0068 (J)	
3/4/2022			0.011		<0.01		0.038
6/6/2022						0.0079 (J)	
6/7/2022					<0.01		0.025
8/16/2022			0.011			0.0039 (J)	
8/17/2022	0.027	0.032		0.0012 (J)			
8/18/2022					0.00091 (J)		
8/19/2022							0.023
2/15/2023	0.029	0.044					0.033
2/16/2023			0.01	0.00096 (J)	<0.01	0.0053 (J)	
8/15/2023					<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
8/18/2023		0.039					
8/21/2023	0.03		0.012	0.0014 (J)		0.0044 (J)	0.021
2/13/2024					<0.01		
2/14/2024							0.041
2/15/2024	0.031	0.045	0.011	0.0012 (J)		0.0064 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9	WGWC-28D
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	0.0078 (J)	0.042	0.41		<0.01	<0.01	
1/11/2022	0.0072 (J)	0.029	0.38				
3/3/2022		0.028			<0.01	<0.01	
3/4/2022	0.0081 (J)		0.38				
6/6/2022	0.0097 (J)	0.032					
6/7/2022			0.34				
8/16/2022					0.0014 (J)		
8/17/2022	0.0089 (J)		0.31			<0.01	
8/18/2022		0.041					
10/19/2022				0.0036 (J)			
2/15/2023	0.0055 (J)	0.036	0.33			<0.01	
2/16/2023				0.0049 (J)	0.00093 (J)		
8/15/2023				0.0047 (J)			
8/18/2023			0.19		0.0019 (J)		
8/21/2023	0.01	0.046				<0.01	
2/13/2024					0.0014 (J)		
2/14/2024		0.052				<0.01	0.017
2/15/2024	0.005 (J)		0.14	0.004 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
5/17/2016		<0.0025	<0.0025	<0.0025			
5/18/2016					<0.0025	<0.0025	<0.0025
7/19/2016		<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	
9/14/2016							<0.0025
11/9/2016		<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	
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
4/24/2017		<0.0025		<0.0025			
4/25/2017			<0.0025		<0.0025	<0.0025	<0.0025
8/8/2017		<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
6/13/2018		<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				
10/3/2018					<0.0025	<0.0025	<0.0025
2/25/2019		<0.0025		<0.0025			
2/26/2019			<0.0025		<0.0025	<0.0025	<0.0025
4/1/2019		<0.0025		<0.0025			
4/2/2019			<0.0025		<0.0025	<0.0025	<0.0025
9/16/2019		0.00032 (J)					0.00036 (J)
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
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
9/21/2020				<0.0025	<0.0025	<0.0025	
9/22/2020		<0.0025	<0.0025				<0.0025
2/2/2021		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/3/2021							<0.0025
3/10/2021			<0.0025	0.00065 (J)	0.00019 (J)	<0.0025	<0.0025
3/11/2021		0.00029 (J)					
8/23/2021				<0.0025			
8/24/2021		<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
3/3/2022			<0.0025				
8/15/2022		<0.0025		<0.0025			<0.0025
8/16/2022			<0.0025		<0.0025	<0.0025	
2/14/2023		<0.0025	<0.0025	<0.0025	<0.0025		<0.0025

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
2/15/2023						<0.0025	
8/18/2023		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
8/21/2023	<0.0025						
2/13/2024		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/15/2024	<0.0025						
2/16/2024							<0.0025

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
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	<0.0025					
9/14/2016			<0.0025	<0.0025	<0.0025	<0.0025	
11/9/2016	<0.0025						
11/10/2016		<0.0025				<0.0025	
11/11/2016			<0.0025	<0.0025	<0.0025		
1/18/2017	<0.0025	<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	<0.0025					
8/9/2017						<0.0025	
8/10/2017			<0.0025	<0.0025	<0.0025		
3/28/2018	<0.0025	<0.0025					
3/29/2018				<0.0025	<0.0025	<0.0025	<0.0025
3/30/2018			<0.0025				
6/13/2018	<0.0025						
6/14/2018		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
10/2/2018	<0.0025						
10/3/2018		<0.0025					
10/4/2018			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
2/26/2019	<0.0025	<0.0025					
2/27/2019			<0.0025	<0.0025	<0.0025	<0.0025	0.00017 (J)
4/2/2019	<0.0025	<0.0025					
4/3/2019				<0.0025	<0.0025	<0.0025	<0.0025
4/4/2019			<0.0025				
9/16/2019	0.0011						
9/18/2019		<0.0025				<0.0025	0.00032 (J)
9/19/2019			<0.0025	<0.0025	<0.0025		
2/4/2020	<0.0025						
2/5/2020		0.00041 (J)	<0.0025	<0.0025	<0.0025	<0.0025	0.00024 (J)
3/17/2020	<0.0025	<0.0025					
3/18/2020			<0.0025	<0.0025	<0.0025		
3/19/2020						<0.0025	0.00025 (J)
9/22/2020	<0.0025	<0.0025					
9/23/2020			<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	<0.0025		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
2/4/2021			<0.0025			<0.0025	0.00026 (J)
3/10/2021		<0.0025					
3/11/2021	<0.0025		<0.0025			<0.0025	<0.0025
3/12/2021				<0.0025	<0.0025		
8/24/2021	<0.0025	<0.0025					
8/25/2021				<0.0025	<0.0025	<0.0025	<0.0025
8/26/2021			<0.0025				
3/1/2022	<0.0025						
3/3/2022		<0.0025	<0.0025	<0.0025		<0.0025	<0.0025
3/4/2022					<0.0025		
8/15/2022	<0.0025						
8/16/2022		<0.0025		<0.0025			
8/18/2022					<0.0025	<0.0025	
8/19/2022			<0.0025				<0.0025
2/14/2023	<0.0025	<0.0025					
2/16/2023			<0.0025	<0.0025	<0.0025	<0.0025	0.00031 (J)
8/18/2023	<0.0025	<0.0025					
8/21/2023			<0.0025	<0.0025	<0.0025	<0.0025	0.00023 (J)
2/13/2024	<0.0025	<0.0025					
2/14/2024					<0.0025		
2/15/2024			<0.0025			<0.0025	0.00026 (J)
2/16/2024				<0.0025			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	<0.0025	<0.0025	<0.0025				
7/19/2016	<0.0025	<0.0025					
7/20/2016			<0.0025				
9/14/2016	<0.0025	<0.0025	<0.0025				
11/10/2016	<0.0025	<0.0025	<0.0025				
11/11/2016				<0.0025			
1/20/2017			<0.0025				
1/24/2017	<0.0025	<0.0025					
2/6/2017				<0.0025			
3/14/2017	<0.0025		<0.0025				
3/15/2017		<0.0025		<0.0025			
4/11/2017				<0.0025			
4/25/2017	<0.0025	<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	<0.0025				
8/10/2017				<0.0025			
3/29/2018		<0.0025		<0.0025			
3/30/2018	<0.0025		<0.0025				
6/14/2018	<0.0025	<0.0025	<0.0025	<0.0025			
10/3/2018	<0.0025						
10/4/2018		<0.0025	<0.0025	<0.0025			
2/26/2019			<0.0025				
2/27/2019	<0.0025	0.00022 (J)					
2/28/2019				<0.0025			
4/2/2019				<0.0025			
4/4/2019	<0.0025	<0.0025	<0.0025				
9/18/2019	<0.0025	<0.0025	<0.0025	<0.0025			
2/7/2020	<0.0025	<0.0025	<0.0025	<0.0025			
3/18/2020	<0.0025	<0.0025	<0.0025				
5/4/2020				<0.0025			
9/23/2020	<0.0025	<0.0025	<0.0025	<0.0025			
2/3/2021				<0.0025			
2/4/2021	<0.0025	<0.0025	<0.0025				
3/11/2021		<0.0025	<0.0025	<0.0025			
3/12/2021	<0.0025						
8/25/2021		<0.0025	<0.0025				
8/26/2021	<0.0025			<0.0025	0.0081	<0.0025	0.00053 (J)
1/11/2022						<0.0025	0.00057 (J)
1/12/2022					0.012		
3/3/2022	<0.0025	<0.0025		<0.0025		<0.0025	
3/4/2022			<0.0025		0.01		0.00066 (J)
6/6/2022						<0.0025	
6/7/2022					0.0089		0.00055 (J)
8/16/2022			<0.0025			0.00022 (J)	
8/17/2022	<0.0025	<0.0025		<0.0025			
8/18/2022					0.0081		
8/19/2022							0.00063 (J)
2/15/2023	<0.0025	<0.0025					0.00067 (J)
2/16/2023			<0.0025	<0.0025	0.011	<0.0025	
8/15/2023					0.0099		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
8/18/2023		<0.0025					
8/21/2023	<0.0025		<0.0025	<0.0025		0.00021 (J)	0.0006 (J)
2/13/2024					0.012		
2/14/2024							0.00044 (J)
2/15/2024	<0.0025	<0.0025	<0.0025	<0.0025		0.00021 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9	WGWC-28D
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	0.00089 (J)	0.014	0.00028 (J)		0.002 (J)	0.00038 (J)	
1/11/2022	0.0012 (J)	0.014	0.0002 (J)				
3/3/2022		0.01			0.0027	0.00036 (J)	
3/4/2022	0.00097 (J)		<0.0025				
6/6/2022	0.0011 (J)	0.0062					
6/7/2022			0.0003 (J)				
8/16/2022					0.0018 (J)		
8/17/2022	0.00078 (J)		0.00022 (J)			0.00033 (J)	
8/18/2022		0.0044					
10/19/2022				0.00054 (J)			
2/15/2023	0.0012 (J)	0.0099	0.00026 (J)			0.00044 (J)	
2/16/2023				0.00046 (J)	0.0025		
8/15/2023				0.00052 (J)			
8/18/2023			<0.0025		0.0024 (J)		
8/21/2023	0.0013 (J)	0.0049				0.0004 (J)	
2/13/2024					0.0027		
2/14/2024		0.0065				0.00037 (J)	0.0019 (J)
2/15/2024	0.0013 (J)		<0.0025	0.0012 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
5/17/2016		<0.08	<0.08	<0.08			
5/18/2016					<0.08	<0.08	<0.08
7/19/2016		<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	
9/14/2016							<0.08
11/9/2016		<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	
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
4/24/2017		<0.08		<0.08			
4/25/2017			<0.08		<0.08	<0.08	<0.08
8/8/2017		<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
6/13/2018		<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				
10/3/2018					<0.08	<0.08	<0.08
4/1/2019		<0.08		<0.08			
4/2/2019			<0.08		<0.08	<0.08	<0.08
9/16/2019		<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
9/21/2020				<0.08	<0.08	<0.08	
9/22/2020		<0.08	<0.08				<0.08
3/9/2021	0.22						
3/10/2021			<0.08	0.039 (J)	<0.08	<0.08	<0.08
3/11/2021		<0.08					
4/7/2021	0.15						
8/23/2021				<0.08			
8/24/2021		<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
3/3/2022			0.1				
8/15/2022		<0.08		0.066 (J)			<0.08
8/16/2022			<0.08		<0.08	<0.08	
2/14/2023		0.026 (J)	<0.08	0.023 (J)	<0.08		0.03 (J)
2/15/2023						<0.08	
8/18/2023		<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
8/21/2023	0.08						
2/13/2024		<0.08	<0.08	<0.08	<0.08	<0.08	
2/15/2024	0.072 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
2/16/2024							<0.08

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
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	<0.08					
9/14/2016			<0.08	<0.08	<0.08	<0.08	
11/9/2016	<0.08						
11/10/2016		<0.08				<0.08	
11/11/2016			<0.08	<0.08	<0.08		
1/18/2017	<0.08	<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	<0.08					
8/9/2017						<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	
6/13/2018	<0.08						
6/14/2018		<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
10/2/2018	<0.08						
10/3/2018		<0.08					
10/4/2018			<0.08	<0.08	<0.08	<0.08	<0.08
4/2/2019	<0.08	<0.08					
4/3/2019				<0.08	<0.08	<0.08	<0.08
4/4/2019			0.024 (J)				
9/16/2019	<0.08						
9/18/2019		<0.08				<0.08	<0.08
9/19/2019			<0.08	<0.08	<0.08		
3/17/2020	<0.08	<0.08					
3/18/2020			0.049 (J)	<0.08	0.039 (J)		
3/19/2020						0.053 (J)	0.039 (J)
9/22/2020	<0.08	<0.08					
9/23/2020			<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	<0.08
3/12/2021				<0.08	<0.08		
8/24/2021	<0.08	<0.08					
8/25/2021				<0.08	<0.08	0.063 (J)	0.043 (J)
8/26/2021			<0.08				
3/1/2022	<0.08						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
3/3/2022		<0.08	<0.08	<0.08		<0.08	<0.08
3/4/2022					<0.08		
8/15/2022	<0.08						
8/16/2022		<0.08		<0.08			
8/18/2022					<0.08	<0.08	
8/19/2022			<0.08				<0.08
2/14/2023	<0.08	0.033 (J)					
2/16/2023			0.04 (J)	<0.08	0.024 (J)	0.033 (J)	0.03 (J)
8/18/2023	<0.08	<0.08					
8/21/2023			0.031 (J)	<0.08	<0.08	<0.08	<0.08
2/13/2024	<0.08	<0.08					
2/14/2024					<0.08		
2/15/2024			<0.08			<0.08	<0.08
2/16/2024				<0.08			

Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	<0.08	4.48	<0.08				
7/19/2016	<0.08	4.7					
7/20/2016			<0.08				
9/14/2016	<0.08	5.8	<0.08				
11/10/2016	<0.08	6.7	<0.08				
11/11/2016				<0.08			
1/20/2017			<0.08				
1/24/2017	<0.08	6.3					
2/6/2017				<0.08			
3/14/2017	<0.08		<0.08				
3/15/2017		5.9		0.034 (J)			
4/11/2017				<0.08			
4/25/2017	<0.08	6.2	<0.08				
4/26/2017				<0.08			
6/7/2017				<0.08			
7/11/2017				<0.08			
8/9/2017	<0.08	6.3	<0.08				
8/10/2017				<0.08			
10/11/2017	<0.08	6.8	<0.08				
10/12/2017				<0.08			
6/14/2018	<0.08	5.4	<0.08	<0.08			
10/3/2018	<0.08						
10/4/2018		5.5	<0.08	<0.08			
4/2/2019				<0.08			
4/4/2019	<0.08	3.2	0.049 (J)				
9/18/2019	<0.08	2.1	<0.08	<0.08			
3/18/2020	0.071 (J)	2	0.049 (J)				
5/4/2020				<0.08			
9/23/2020	<0.08	1.5	<0.08	<0.08			
3/8/2021					1.3		
3/9/2021						0.19	0.33
3/11/2021		1.1	<0.08	<0.08			
3/12/2021	<0.08						
4/7/2021						0.13	
4/8/2021					0.98		0.21
8/25/2021		0.89	<0.08				
8/26/2021	<0.08			<0.08	2.1	0.087	0.36
1/11/2022						0.12	0.39
1/12/2022					4.9		
3/3/2022	<0.08	0.79		<0.08		0.12	
3/4/2022			<0.08		4.3		0.41
6/6/2022						0.13	
6/7/2022					2.8		0.39
8/16/2022			<0.08			0.099	
8/17/2022	<0.08	0.73		<0.08			
8/18/2022					2.2		
8/19/2022							0.33
2/15/2023	<0.08	0.86					0.39
2/16/2023			<0.08	<0.08	3.5	0.14	
8/15/2023					3.1		
8/18/2023		0.81					
8/21/2023	<0.08		<0.08	<0.08		0.12	0.33

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
2/13/2024					5.6		
2/14/2024							0.33
2/15/2024	<0.08	0.74	0.027 (J)	<0.08		0.14	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9	WGWC-28D
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	0.073 (J)	1.8					
3/11/2021					2.4		
3/12/2021						0.64	
4/7/2021	<0.08	1.9					
4/8/2021			0.43				
8/26/2021	0.052 (J)	2.1	0.7		2.4	0.56	
1/11/2022	0.048 (J)	1.7	0.87				
3/3/2022		1.6			2.7	0.62	
3/4/2022	<0.08		0.72				
6/6/2022	<0.08	0.64					
6/7/2022			0.78				
8/16/2022					2.3		
8/17/2022	<0.08		0.82			0.55	
8/18/2022		0.44					
10/19/2022				0.098			
2/15/2023	0.049 (J)	1.4	0.89			0.69	
2/16/2023				0.22	2.8		
8/15/2023				0.35			
8/18/2023			0.57		2.8		
8/21/2023	<0.08	0.59				0.6	
2/13/2024					3		
2/14/2024		1				0.56	9.3
2/15/2024	<0.08		0.29	0.26			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
5/17/2016		<0.0025	<0.0025	<0.0025			
5/18/2016					<0.0025	<0.0025	<0.0025
7/19/2016		<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	
9/14/2016							<0.0025
11/9/2016		<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	
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
4/24/2017		<0.0025		<0.0025			
4/25/2017			<0.0025		<0.0025	<0.0025	<0.0025
8/8/2017		<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
6/13/2018		<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				
10/3/2018					<0.0025	<0.0025	<0.0025
2/25/2019		<0.0025		<0.0025			
2/26/2019			<0.0025		<0.0025	<0.0025	<0.0025
4/1/2019		<0.0025		<0.0025			
4/2/2019			<0.0025		<0.0025	<0.0025	<0.0025
9/16/2019		<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
2/5/2020			<0.0025				
3/16/2020		<0.0025		<0.0025			
3/17/2020			<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
2/2/2021		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/3/2021							<0.0025
2/28/2022						<0.0025	
3/1/2022		<0.0025		<0.0025	<0.0025		<0.0025
3/3/2022			<0.0025				
8/15/2022		<0.0025		<0.0025			<0.0025
8/16/2022			<0.0025		<0.0025	<0.0025	
2/14/2023		<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
2/15/2023						<0.0025	
8/18/2023		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
8/21/2023	<0.0025						
2/13/2024		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
2/15/2024	<0.0025						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
2/16/2024							<0.0025

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
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	<0.0025					
9/14/2016			<0.0025	<0.0025	<0.0025	<0.0025	
11/9/2016	<0.0025						
11/10/2016		<0.0025				<0.0025	
11/11/2016			<0.0025	<0.0025	<0.0025		
1/18/2017	<0.0025	<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	<0.0025					
8/9/2017						<0.0025	
8/10/2017			<0.0025	<0.0025	<0.0025		
3/28/2018	<0.0025	<0.0025					
3/29/2018				<0.0025	<0.0025	<0.0025	<0.0025
3/30/2018			<0.0025				
6/13/2018	<0.0025						
6/14/2018		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
10/2/2018	<0.0025						
10/3/2018		<0.0025					
10/4/2018			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
2/26/2019	<0.0025	<0.0025					
2/27/2019			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
4/2/2019	<0.0025	<0.0025					
4/3/2019				<0.0025	<0.0025	<0.0025	<0.0025
4/4/2019			<0.0025				
9/16/2019	<0.0025						
9/18/2019		<0.0025				<0.0025	<0.0025
9/19/2019			0.00021 (J)	<0.0025	<0.0025		
2/4/2020	<0.0025						
2/5/2020		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
3/17/2020	<0.0025	<0.0025					
3/18/2020			<0.0025	<0.0025	<0.0025		
3/19/2020						<0.0025	<0.0025
9/22/2020	<0.0025	<0.0025					
9/23/2020			<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	<0.0025		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
2/4/2021			<0.0025			<0.0025	<0.0025
3/1/2022	<0.0025						
3/3/2022		<0.0025	<0.0025	<0.0025		<0.0025	<0.0025
3/4/2022					<0.0025		
8/15/2022	<0.0025						
8/16/2022		<0.0025		<0.0025			
8/18/2022					<0.0025	<0.0025	
8/19/2022			<0.0025				<0.0025
2/14/2023	<0.0025	<0.0025					
2/16/2023			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
8/18/2023	<0.0025	<0.0025					
8/21/2023			<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
2/13/2024	<0.0025	<0.0025					
2/14/2024					<0.0025		
2/15/2024			<0.0025			<0.0025	<0.0025
2/16/2024				<0.0025			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	<0.0025	0.000362 (J)	<0.0025				
7/19/2016	<0.0025	<0.0025					
7/20/2016			<0.0025				
9/14/2016	<0.0025	0.00037 (J)	<0.0025				
11/10/2016	<0.0025	<0.0025	<0.0025				
11/11/2016				<0.0025			
1/20/2017			<0.0025				
1/24/2017	<0.0025	0.00055 (J)					
2/6/2017				<0.0025			
3/14/2017	<0.0025		<0.0025				
3/15/2017		0.00067 (J)		<0.0025			
4/11/2017				<0.0025			
4/25/2017	<0.0025	0.00058 (J)	<0.0025				
4/26/2017				<0.0025			
6/7/2017				<0.0025			
7/11/2017				<0.0025			
8/9/2017	<0.0025	0.00054 (J)	<0.0025				
8/10/2017				<0.0025			
3/29/2018		0.00082 (J)		<0.0025			
3/30/2018	<0.0025		<0.0025				
6/14/2018	<0.0025	0.0007 (J)	<0.0025	<0.0025			
10/3/2018	<0.0025						
10/4/2018		0.00065 (J)	<0.0025	<0.0025			
2/26/2019			<0.0025				
2/27/2019	<0.0025	0.00055 (J)					
2/28/2019				<0.0025			
4/2/2019				<0.0025			
4/4/2019	<0.0025	0.00047 (J)	<0.0025				
9/18/2019	<0.0025	0.00017 (J)	<0.0025	<0.0025			
2/7/2020	<0.0025	<0.0025	<0.0025	<0.0025			
3/18/2020	<0.0025	0.00022 (J)	<0.0025				
5/4/2020				<0.0025			
9/23/2020	<0.0025	<0.0025	<0.0025	<0.0025			
2/3/2021				<0.0025			
2/4/2021	<0.0025	<0.0025	<0.0025				
8/26/2021					<0.0025	<0.0025	<0.0025
1/11/2022						<0.0025	<0.0025
1/12/2022					0.00026 (J)		
3/3/2022	<0.0025	<0.0025		<0.0025		<0.0025	
3/4/2022			<0.0025		<0.0025		0.00025 (J)
6/6/2022						<0.0025	
6/7/2022					<0.0025		<0.0025
8/16/2022			<0.0025			<0.0025	
8/17/2022	<0.0025	<0.0025		<0.0025			
8/18/2022					<0.0025		
8/19/2022							9E-05 (J)
2/15/2023	<0.0025	8.5E-05 (J)					0.00028 (J)
2/16/2023			<0.0025	<0.0025	0.00057 (J)	<0.0025	
8/15/2023					0.00019 (J)		
8/18/2023		<0.0025					
8/21/2023	<0.0025		<0.0025	<0.0025		<0.0025	<0.0025
2/13/2024					0.00042 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
2/14/2024							0.00013 (J)
2/15/2024	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9	WGWC-28D
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	<0.0025	0.00061 (J)	<0.0025				
1/11/2022	<0.0025	0.0004 (J)	<0.0025				
3/3/2022		0.0003 (J)			<0.0025	<0.0025	
3/4/2022	<0.0025		<0.0025				
6/6/2022	<0.0025	0.0003 (J)					
6/7/2022			<0.0025				
8/16/2022					<0.0025		
8/17/2022	<0.0025		0.00012 (J)			<0.0025	
8/18/2022		0.00015 (J)					
10/19/2022				<0.0025			
2/15/2023	<0.0025	0.00057 (J)	0.0001 (J)			<0.0025	
2/16/2023				8E-05 (J)	0.00065 (J)		
8/15/2023				<0.0025			
8/18/2023			<0.0025		0.00013 (J)		
8/21/2023	<0.0025	9.5E-05 (J)				<0.0025	
2/13/2024					0.00041 (J)		
2/14/2024		0.00023 (J)				<0.0025	<0.0025
2/15/2024	<0.0025		<0.0025	<0.0025			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
5/17/2016		0.927	23.7	12.2			
5/18/2016					2.1	17.9	1.7
7/19/2016		1	23	13			1.5
7/20/2016					1.7	15	
9/13/2016		0.44	23	13	1.3	16	
9/14/2016							52
11/9/2016		1.1	6.7	19			
11/10/2016					1.6	15	
1/17/2017		1.4		28			
1/18/2017					1.7	17	
1/19/2017			8.5				13
3/13/2017		1.1		14			
3/14/2017			13		1.8	17	1.6
4/24/2017		1.1		12			
4/25/2017			23		2	17	1.5
8/8/2017		1.1	24	18	2		
8/9/2017						15	1.3
10/10/2017		1.2		21			
10/11/2017			23		2.1	17	1.5
6/13/2018		1.1	11				1.2
6/14/2018				12	2	15	
9/24/2018				11			
9/27/2018		1.2					
9/28/2018			11				
10/3/2018					1.8	16	1.4
4/1/2019		1		12			
4/2/2019			20		1.8	15	1.1
9/16/2019		1.3					36
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
9/21/2020				13	1.8	16	
9/22/2020		1.2	19				58
3/9/2021	17						
3/10/2021			7.7	11	1.9	16	1.3
3/11/2021		1.3					
4/7/2021	18						
8/23/2021				13			
8/24/2021		1.2				15	47
8/25/2021			16		1.7		
2/28/2022						14	
3/1/2022		1.1		13	1.6		2.1
3/3/2022			6.1				
8/15/2022		1.2		12			51
8/16/2022			8.8		1.8	16	
2/14/2023		1.4	5.7	12	2		1.3
2/15/2023						18	
8/18/2023		1.5	8.3	14	1.9	17	26
8/21/2023	16						
2/13/2024		1.3	4.6	12	1.7	17	
2/15/2024	15						

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
2/16/2024							0.92

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
5/18/2016	27	1.36	7.17				
5/19/2016				1.95	15.8	11.4	
7/19/2016	23	0.88					
7/20/2016			7	1.5	14	7.1	
9/13/2016	25	0.93					
9/14/2016			7.7	1.8	16	7.4	
11/9/2016	25						
11/10/2016		6.1				6.4	
11/11/2016			8.2	1.7	15		
1/18/2017	26	10					
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	20	1.3					
3/15/2017			9	3.8	16	6.7	
3/17/2017							2.4
4/11/2017							4.1
4/25/2017	28	1.9					
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	26	4.8					
8/9/2017						7	
8/10/2017			8.1	3.5	15		
10/11/2017	29	0.93					3.8
10/12/2017			8.6	2.7	16	7	
6/13/2018	25						
6/14/2018		0.94	7.7	2.2	13	5.5	1.1
10/2/2018	26						
10/3/2018		1.2					
10/4/2018			8.5	2	15	5.9	2
4/2/2019	25	1.1					
4/3/2019				1.7	14	4.7	0.84
4/4/2019			7.9				
9/16/2019	25						
9/18/2019		1.5				4.9	0.85
9/19/2019			7.5	1.4	14		
3/17/2020	26	0.82					
3/18/2020			7.5	1.6	14		
3/19/2020						5	0.89
9/22/2020	25	0.89					
9/23/2020			7.7		13		
9/24/2020				5.2		1.4	0.99
3/10/2021		0.89					
3/11/2021	26		7.9			4	0.79
3/12/2021				1.6	15		
8/24/2021	26	1.7					
8/25/2021				1.5	14	4	0.7
8/26/2021			7.6				
3/1/2022	22						

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
3/3/2022		1.4	7.1	1.3		3.4	0.65
3/4/2022					12		
8/15/2022	24						
8/16/2022		0.94		1.6			
8/18/2022					13	3.5	
8/19/2022			7.3				0.64
2/14/2023	29	1.3					
2/16/2023			6.9	1.7	12	3.8	0.69
8/18/2023	27	1.8					
8/21/2023			8	1.7	15	4.1	0.7
2/13/2024	27	11					
2/14/2024					13		
2/15/2024			7.7			3.7	0.66
2/16/2024				1.6			

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	32.5	168	8.24				
7/19/2016	30	190					
7/20/2016			11				
9/14/2016	37	230	12				
11/10/2016	29	240	11				
11/11/2016				12			
1/20/2017			10				
1/24/2017	28	280					
2/6/2017				11			
3/14/2017	29		8.8				
3/15/2017		260		10			
4/11/2017				11			
4/25/2017	32	300	12				
4/26/2017				8.4			
6/7/2017				9			
7/11/2017				9.5			
8/9/2017	30	350	11				
8/10/2017				8.8			
10/11/2017	31	360	10				
10/12/2017				9.5			
6/14/2018	29	260	6.2	8.9			
10/3/2018	31						
10/4/2018		250	6.4	10			
4/2/2019				11			
4/4/2019	30	110	5.6				
9/18/2019	31	62	5.5	8.8			
3/18/2020	30	66	6.3				
5/4/2020				15			
9/23/2020	32	43	5.9	13			
3/8/2021					90		
3/9/2021						66	15
3/11/2021		32	5.7	15			
3/12/2021	31						
4/7/2021						67	
4/8/2021					88		14
8/25/2021		27	6				
8/26/2021	31			10	120	51	24
1/11/2022						57	32
1/12/2022					220		
3/3/2022	28	24		12		54	
3/4/2022			5.3		200		31
6/6/2022						58	
6/7/2022					140		19
8/16/2022			5.6			55	
8/17/2022	29	20		9.8			
8/18/2022					110		
8/19/2022							18
2/15/2023	31	26					26
2/16/2023			6	13	190	68	
8/15/2023					150		
8/18/2023		23					
8/21/2023	32		6.3	14		63	16

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
2/13/2024					210		
2/14/2024							21
2/15/2024	31	20	6.2	14		73	

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9	WGWC-28D
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	3.2	65					
3/11/2021					83		
3/12/2021						11	
4/7/2021	2.7	71					
4/8/2021			16				
8/26/2021	4.6	69	16		85	9.3	
1/11/2022	3.1	51	16				
3/3/2022		42			88	8.6	
3/4/2022	4		16				
6/6/2022	4.5	22					
6/7/2022			15				
8/16/2022					83		
8/17/2022	4.6		15			9	
8/18/2022		16					
10/19/2022				5.9			
2/15/2023	2.4	39	18			11	
2/16/2023				19	92		
8/15/2023				25			
8/18/2023			28		96		
8/21/2023	4.2	18				11	
2/13/2024					91		
2/14/2024		24				9.1	390
2/15/2024	2.5		29	22			

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
5/17/2016		3.8	6.05	2.5			
5/18/2016					1.92	1.45	2.14
7/19/2016		3.9	4	2.6			2.4
7/20/2016					1.8	1.4	
9/13/2016		3.6	3.1	2.4	1.7	1.4	
9/14/2016							2.1
11/9/2016		3.9	2.3	2.3			
11/10/2016					1.6	1.3	
1/17/2017		3.8		2.3			
1/18/2017					1.7	1.3	
1/19/2017			2				1.8
3/13/2017		3.4		2.2			
3/14/2017			1.9		1.6	1.2	2
4/24/2017		3.4		2.2			
4/25/2017			1.9		1.6	1.2	1.8
8/8/2017		3.6	2	2.3	1.7		
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
6/13/2018		3.8	2				1.7
6/14/2018				2.3	1.6	1.2	
9/24/2018				2.4			
9/27/2018		4					
9/28/2018			2.1				
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
9/16/2019		4					1.8
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
9/21/2020				2.5	1.5	1.2	
9/22/2020		4	2.1				1.5
3/9/2021	20						
3/10/2021			1.9	2.6	1.8	1.2	1.8
3/11/2021		4.5					
4/7/2021	20						
8/23/2021				3.3			
8/24/2021		5.1				1.5	2.1
8/25/2021			2.3		1.9		
2/28/2022						1.2	
3/1/2022		4.1		2.7	1.8		1.5
3/3/2022			2				
8/15/2022		4		2.7			1.5
8/16/2022			1.9		1.6	1.2	
2/14/2023		3.9	1.9	2.6	1.6		1.3
2/15/2023						1.2	
8/22/2023		3.8	1.8	2.5	1.6	1.2	1.2
8/23/2023	14						
2/13/2024		3.5	1.7	2.4	1.5	1.1	
2/15/2024	14						

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
2/16/2024							1.6

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
5/18/2016	1.58	2.06	1.45				
5/19/2016				3.21	3.8	2.26	
7/19/2016	1.6	2.1					
7/20/2016			1.6	3.4	3.8	1.9	
9/13/2016	1.4	2					
9/14/2016			1.5	3.1	3.7	1.6	
11/9/2016	1.5						
11/10/2016		1.8				1.4	
11/11/2016			1.5	3.2	3.5		
1/18/2017	1.5	1.8					
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	2.5	1.8					
3/15/2017			1.4	3.1	3.2	1.4	
3/17/2017							4.8
4/11/2017							3.8
4/25/2017	1.3	1.8					
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	1.4	1.9					
8/9/2017						1.4	
8/10/2017			1.4	3.1	3.4		
10/11/2017	1.3	1.8					2.2
10/12/2017			1.3	3	3.1	1.2	
6/13/2018	1.4						
6/14/2018		1.7	1.3	3	3	1.2	2.8
10/2/2018	1.4						
10/3/2018		1.8					
10/4/2018			1.3	3.1	3.1	1.2	2.2
4/2/2019	1.5	1.9					
4/3/2019				3.3	3	1.2	2.4
4/4/2019			1.4				
9/16/2019	1.5						
9/18/2019		2				1.2	2.2
9/19/2019			1.5	3.2	3.2		
3/17/2020	1.7	2.2					
3/18/2020			1.5	3.2	3.2		
3/19/2020						1.3	1.9
9/22/2020	1.4	1.8					
9/23/2020			1.3		2.8		
9/24/2020				1		1.6	3.1
3/10/2021		1.9					
3/11/2021	1.5		1.7			1.2	2.6
3/12/2021				3.6	3.5		
8/24/2021	1.8	1.9					
8/25/2021				3.5	3.7	1.2	2.8
8/26/2021			1.6				
3/1/2022	1.5						

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
3/3/2022		2.1	1.6	3.6		1	2.4
3/4/2022					3.2		
8/15/2022	1.5						
8/16/2022		1.9		3.5			
8/18/2022					3	0.98 (J)	
8/19/2022			1.4				2.1
2/14/2023	1.5	1.8					
2/16/2023			1.3	3.3	2.9	0.97 (J)	1.9
8/22/2023	1.4	1.7					
8/23/2023			1.3	3.3	2.8	0.91 (J)	1.8
2/13/2024	1.4	1.6					
2/14/2024					2.8		
2/15/2024			1.8			1.3	2.5
2/16/2024				4.3			

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	4.59	217	2.72				
7/19/2016	5.9	250					
7/20/2016			1.9				
9/14/2016	7.9	260	1.6				
11/10/2016	6.5	290	1.6				
11/11/2016				2.6			
1/20/2017			1.5				
1/24/2017	4.1	310					
2/6/2017				2.6			
3/14/2017	4.4		1.5				
3/15/2017		330		2.4			
4/11/2017				2.3			
4/25/2017	4	330	1.8				
4/26/2017				2.3			
6/7/2017				2.5			
7/11/2017				2.3			
8/9/2017	3.6	330	1.4				
8/10/2017				2.5			
10/11/2017	5	320	1.5				
10/12/2017				2.3			
6/14/2018	4.3	290	1.5	2.4			
10/3/2018	4.8						
10/4/2018		290	1.5	2.6			
4/2/2019				2.5			
4/4/2019	3.7	170	1.4				
9/18/2019	3.2	100	1.5	2.7			
3/18/2020	1.7	93	1.5				
5/4/2020				2.8			
9/23/2020	1.5	58	1.2	2.6			
3/8/2021					70		
3/9/2021						58	2.9
3/11/2021		49	1.3	2.9			
3/12/2021	1.6						
4/7/2021						50	
4/8/2021					57		2.4
8/25/2021		45	1.6				
8/26/2021	1.4			3.3	130	47	4.2
1/11/2022						44	5.1
1/12/2022					350		
3/3/2022	1.4	42		3.2		45	
3/4/2022			1.3		330		5.3
6/6/2022						48	
6/7/2022					180		4.3
8/16/2022			1.3			41	
8/17/2022	1.2	35		2.8			
8/18/2022					140		
8/19/2022							4.2
2/15/2023	1	42					4.6
2/16/2023			1.2	2.6	230	51	
8/17/2023					190		
8/22/2023		34					
8/23/2023	0.95 (J)		1.1	2.5		47	3.9

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
2/13/2024					230		
2/14/2024							4.1
2/15/2024	1.4	32	1.6	3.5		59	

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9	WGWC-28D
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	3.5	110					
3/11/2021					110		
3/12/2021						3.4	
4/7/2021	3.7	110					
4/8/2021			77				
8/26/2021	3.3	100	79		110	3.1	
1/11/2022	2.9	60	75				
3/3/2022		50			130	3.5	
3/4/2022	2.9		79				
6/6/2022	3.1	41					
6/7/2022			79				
8/16/2022					110		
8/17/2022	3.2		77			3.2	
8/18/2022		27					
10/19/2022				5			
2/15/2023	2.9	39	79			3.9	
2/16/2023				22	120		
8/17/2023				29			
8/22/2023			35		110	3.3	
8/23/2023	2.9	22					
2/13/2024					88		
2/14/2024		22				3.2	520
2/15/2024	3.5		12	29			

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
5/17/2016		<0.002	<0.002	<0.002			
5/18/2016					<0.002	<0.002	<0.002
7/19/2016		<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	
9/14/2016							0.0031
11/9/2016		<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	
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
4/24/2017		<0.002		<0.002			
4/25/2017			<0.002		<0.002	<0.002	<0.002
8/8/2017		<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
6/13/2018		<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				
10/3/2018					<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
4/1/2019		<0.002		<0.002			
4/2/2019			<0.002		<0.002	<0.002	<0.002
9/16/2019		0.0016 (J)					<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
2/5/2020			<0.002				
3/16/2020		<0.002		<0.002			
3/17/2020			<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
2/2/2021		<0.002	<0.002	<0.002	<0.002	<0.002	
2/3/2021							<0.002
3/10/2021			<0.002	<0.002	<0.002	<0.002	<0.002
3/11/2021		<0.002					
8/23/2021				<0.002			
8/24/2021		<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
3/3/2022			<0.002				
8/15/2022		0.0063		<0.002			<0.002
8/16/2022			<0.002		<0.002	<0.002	
2/14/2023		<0.002	<0.002	<0.002	<0.002		<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
2/15/2023						<0.002	
8/18/2023		0.0012 (J)	<0.002	<0.002	<0.002	<0.002	<0.002
8/21/2023	<0.002						
2/13/2024		<0.002	<0.002	<0.002	0.0015 (J)	<0.002	
2/15/2024	<0.002						
2/16/2024							<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
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	<0.002					
9/14/2016			<0.002	<0.002	<0.002	<0.002	
11/9/2016	<0.002						
11/10/2016		<0.002				<0.002	
11/11/2016			0.0015 (J)	<0.002	<0.002		
1/18/2017	<0.002	<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	<0.002					
8/9/2017						<0.002	
8/10/2017			0.0016 (J)	<0.002	<0.002		
3/28/2018	<0.002	<0.002					
3/29/2018				0.0012 (J)	<0.002	<0.002	<0.002
3/30/2018			0.0027				
6/13/2018	<0.002						
6/14/2018		<0.002	0.0023 (J)	<0.002	<0.002	<0.002	<0.002
10/2/2018	<0.002						
10/3/2018		<0.002					
10/4/2018			0.0031	<0.002	<0.002	<0.002	<0.002
2/26/2019	0.0023 (J)	<0.002					
2/27/2019			0.0031	0.0021 (J)	<0.002	0.0018 (J)	<0.002
4/2/2019	<0.002	<0.002					
4/3/2019				<0.002	<0.002	<0.002	<0.002
4/4/2019			0.0021 (J)				
9/16/2019	<0.002						
9/18/2019		<0.002				<0.002	<0.002
9/19/2019			0.0022	<0.002	<0.002		
2/4/2020	<0.002						
2/5/2020		<0.002	0.0022	<0.002	<0.002	<0.002	0.0017 (J)
3/17/2020	<0.002	<0.002					
3/18/2020			<0.002	<0.002	<0.002		
3/19/2020						<0.002	<0.002
9/22/2020	<0.002	<0.002					
9/23/2020			0.0018 (J)		<0.002		
9/24/2020				<0.002		<0.002	<0.002
2/2/2021		<0.002					
2/3/2021	<0.002			<0.002	<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
2/4/2021			0.0018 (J)			<0.002	<0.002
3/10/2021		<0.002					
3/11/2021	<0.002		0.0023			0.0019 (J)	<0.002
3/12/2021				0.0017 (J)	<0.002		
8/24/2021	<0.002	<0.002					
8/25/2021				<0.002	<0.002	0.0017 (J)	<0.002
8/26/2021			0.0024				
3/1/2022	<0.002						
3/3/2022		<0.002	0.0023	<0.002		<0.002	<0.002
3/4/2022					<0.002		
8/15/2022	<0.002						
8/16/2022		<0.002		<0.002			
8/18/2022					<0.002	<0.002	
8/19/2022			0.0024				<0.002
2/14/2023	<0.002	<0.002					
2/16/2023			0.0014 (J)	<0.002	<0.002	<0.002	<0.002
8/18/2023	<0.002	<0.002					
8/21/2023			0.0029	<0.002	<0.002	<0.002	<0.002
2/13/2024	<0.002	0.049 (o)					
2/14/2024					<0.002		
2/15/2024			0.0036			<0.002	<0.002
2/16/2024				<0.002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	<0.002	<0.002	<0.002				
7/19/2016	<0.002	<0.002					
7/20/2016			<0.002				
9/14/2016	<0.002	<0.002	<0.002				
11/10/2016	<0.002	<0.002	<0.002				
11/11/2016				<0.002			
1/20/2017			<0.002				
1/24/2017	<0.002	<0.002					
2/6/2017				<0.002			
3/14/2017	<0.002		<0.002				
3/15/2017		<0.002		<0.002			
4/11/2017				<0.002			
4/25/2017	<0.002	<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	<0.002				
8/10/2017				<0.002			
3/29/2018		<0.002		<0.002			
3/30/2018	<0.002		<0.002				
6/14/2018	<0.002	<0.002	<0.002	<0.002			
10/3/2018	<0.002						
10/4/2018		<0.002	<0.002	<0.002			
2/26/2019			<0.002				
2/27/2019	0.0015 (J)	<0.002					
2/28/2019				<0.002			
4/2/2019				<0.002			
4/4/2019	<0.002	<0.002	<0.002				
9/18/2019	<0.002	<0.002	<0.002	<0.002			
2/7/2020	<0.002	<0.002	<0.002	<0.002			
3/18/2020	<0.002	<0.002	<0.002				
5/4/2020				<0.002			
9/23/2020	<0.002	<0.002	<0.002	<0.002			
2/3/2021				<0.002			
2/4/2021	<0.002	<0.002	<0.002				
3/11/2021		<0.002	<0.002	<0.002			
3/12/2021	<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
1/12/2022					<0.002		
3/3/2022	<0.002	<0.002		<0.002		<0.002	
3/4/2022			<0.002		<0.002		<0.002
6/6/2022						<0.002	
6/7/2022					<0.002		<0.002
8/16/2022			<0.002			<0.002	
8/17/2022	<0.002	<0.002		<0.002			
8/18/2022					<0.002		
8/19/2022							<0.002
2/15/2023	<0.002	<0.002					<0.002
2/16/2023			<0.002	<0.002	<0.002	0.0015 (J)	
8/15/2023					<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
8/18/2023		<0.002					
8/21/2023	<0.002		<0.002	<0.002		<0.002	<0.002
2/13/2024					<0.002		
2/14/2024							<0.002
2/15/2024	<0.002	<0.002	<0.002	<0.002		<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9	WGWC-28D
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	<0.002	
1/11/2022	<0.002	<0.002	<0.002				
3/3/2022		<0.002			<0.002	<0.002	
3/4/2022	<0.002		<0.002				
6/6/2022	<0.002	<0.002					
6/7/2022			<0.002				
8/16/2022					<0.002		
8/17/2022	<0.002		<0.002			<0.002	
8/18/2022		<0.002					
10/19/2022				<0.002			
2/15/2023	<0.002	<0.002	<0.002			<0.002	
2/16/2023				<0.002	<0.002		
8/15/2023				<0.002			
8/18/2023			<0.002		<0.002		
8/21/2023	<0.002	<0.002				<0.002	
2/13/2024					<0.002		
2/14/2024		<0.002				0.002	<0.002
2/15/2024	<0.002		<0.002	<0.002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
5/17/2016		<0.01	<0.0025	<0.0025			
5/18/2016					<0.0025	<0.0025	<0.01
7/19/2016		0.0014 (J)	0.0019 (J)	0.00086 (J)			0.0014 (J)
7/20/2016					<0.0025	<0.0025	
9/13/2016		0.0015 (J)	0.0032	0.00095 (J)	<0.0025	<0.0025	
9/14/2016							0.013
11/9/2016		0.0012 (J)	0.0039	0.0011 (J)			
11/10/2016					<0.0025	<0.0025	
1/17/2017		0.001 (J)		<0.0025			
1/18/2017					<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
4/24/2017		0.001 (J)		0.0014 (J)			
4/25/2017			0.002 (J)		<0.0025	<0.0025	0.0026
8/8/2017		0.0011 (J)	0.0031	0.0012 (J)	<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)
6/13/2018		0.00094 (J)	0.0021 (J)				0.0011 (J)
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)				
10/3/2018					<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)
4/1/2019		0.00079 (J)		0.00082 (J)			
4/2/2019			<0.0025		<0.0025	<0.0025	0.00046 (J)
9/16/2019		0.00082					0.0035
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
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)
9/21/2020				0.00054 (J)	<0.0025	<0.0025	
9/22/2020		0.00072 (J)	0.00033 (J)				0.0065
2/2/2021		0.00082 (J)	0.0018 (J)	0.00069 (J)	<0.0025	<0.0025	
2/3/2021							0.0015 (J)
3/10/2021			0.0015 (J)	0.00073 (J)	<0.0025	<0.0025	0.0011 (J)
3/11/2021		0.00081 (J)					
8/23/2021				0.00049 (J)			
8/24/2021		0.0016 (J)				<0.0025	0.00079 (J)
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)
3/3/2022			0.0014 (J)				
8/15/2022		0.0007 (J)		0.00045 (J)			0.00063 (J)
8/16/2022			0.00075 (J)		<0.0025	<0.0025	
2/14/2023		0.00073 (J)	0.001 (J)	0.00052 (J)	<0.0025		0.0011 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
2/15/2023						<0.0025	
8/18/2023		0.00087 (J)	0.00075 (J)	0.0006 (J)	<0.0025	<0.0025	0.00059 (J)
8/21/2023	0.017						
2/13/2024		0.00064 (J)	0.00063 (J)	0.00049 (J)	<0.0025	<0.0025	
2/15/2024	0.0069						
2/16/2024							0.00059 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
5/18/2016	<0.0025	<0.0025	0.00201 (J)				
5/19/2016				<0.0025	<0.01	<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	<0.0025					
9/14/2016			0.00095 (J)	<0.0025	0.00098 (J)	<0.0025	
11/9/2016	<0.0025						
11/10/2016		0.00055 (J)				<0.0025	
11/11/2016			0.001 (J)	0.00052 (J)	0.0017 (J)		
1/18/2017	<0.0025	0.00097 (J)					
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	0.0018 (J)	<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	<0.0025					
8/9/2017						0.0004 (J)	
8/10/2017			<0.0025	0.0011 (J)	0.00049 (J)		
3/28/2018	<0.0025	<0.0025					
3/29/2018				<0.0025	0.0008 (J)	0.0008 (J)	0.015
3/30/2018			0.0035				
6/13/2018	<0.0025						
6/14/2018		<0.0025	0.0012 (J)	<0.0025	0.00067 (J)	0.00054 (J)	0.011
10/2/2018	<0.0025						
10/3/2018		<0.0025					
10/4/2018			0.00086 (J)	<0.0025	0.00079 (J)	<0.0025	0.0055
2/26/2019	0.00031 (J)	0.00017 (J)					
2/27/2019			0.0005 (J)	0.0022 (J)	0.0006 (J)	0.00013 (J)	0.0049
4/2/2019	<0.0025	<0.0025					
4/3/2019				0.00081 (J)	0.00043 (J)	<0.0025	0.0056
4/4/2019			0.0017 (J)				
9/16/2019	9.1E-05 (J)						
9/18/2019		0.0002 (J)				<0.0025	0.005
9/19/2019			0.0023	<0.0025	0.00028 (J)		
2/4/2020	<0.0025						
2/5/2020		0.00021 (J)	0.0013	0.00026 (J)	0.00058	<0.0025	0.0044
3/17/2020	0.00014 (J)	0.00065 (J)					
3/18/2020			0.0012 (J)	0.00069 (J)	0.00071 (J)		
3/19/2020						<0.0025	0.0039
9/22/2020	<0.0025	0.00015 (J)					
9/23/2020			0.00062 (J)		0.00039 (J)		
9/24/2020				<0.0025		0.00032 (J)	0.0035
2/2/2021		<0.0025					
2/3/2021	<0.0025			0.00072 (J)	0.00017 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
2/4/2021			0.00059 (J)			<0.0025	0.0041
3/10/2021		<0.0025					
3/11/2021	<0.0025		0.00058 (J)			<0.0025	0.0037
3/12/2021				0.0022 (J)	0.00042 (J)		
8/24/2021	<0.0025	0.00017 (J)					
8/25/2021				0.00045 (J)	0.0005 (J)	<0.0025	0.0029
8/26/2021			0.00044 (J)				
3/1/2022	<0.0025						
3/3/2022		<0.0025	0.00045 (J)	0.00026 (J)		<0.0025	0.0024 (J)
3/4/2022					0.00056 (J)		
8/15/2022	<0.0025						
8/16/2022		<0.0025		<0.0025			
8/18/2022					0.00034 (J)	<0.0025	
8/19/2022			0.0014 (J)				0.002 (J)
2/14/2023	<0.0025	<0.0025					
2/16/2023			<0.0025	<0.0025	0.0004 (J)	<0.0025	0.0022 (J)
8/18/2023	<0.0025	<0.0025					
8/21/2023			0.00038 (J)	<0.0025	0.00025 (J)	0.00024 (J)	0.002 (J)
2/13/2024	<0.0025	0.00044 (J)					
2/14/2024					0.00045 (J)		
2/15/2024			<0.0025			<0.0025	0.0017 (J)
2/16/2024				<0.0025			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	<0.0025	0.0069	0.00245 (J)				
7/19/2016	<0.0025	0.012					
7/20/2016			0.0018 (J)				
9/14/2016	<0.0025	0.013	0.0014 (J)				
11/10/2016	<0.0025	0.016	0.0016 (J)				
11/11/2016				<0.0025			
1/20/2017			0.0014 (J)				
1/24/2017	<0.0025	0.015					
2/6/2017				0.00058 (J)			
3/14/2017	<0.0025		0.0023 (J)				
3/15/2017		0.014		0.00045 (J)			
4/11/2017				<0.0025			
4/25/2017	<0.0025	0.014	0.0023 (J)				
4/26/2017				<0.0025			
6/7/2017				<0.0025			
7/11/2017				<0.0025			
8/9/2017	<0.0025	0.016	0.0011 (J)				
8/10/2017				0.00049 (J)			
3/29/2018		0.0092		<0.0025			
3/30/2018	<0.0025		0.0016 (J)				
6/14/2018	<0.0025	0.0035	0.00055 (J)	<0.0025			
10/3/2018	<0.0025						
10/4/2018		0.0078	0.00041 (J)	<0.0025			
2/26/2019			0.00086 (J)				
2/27/2019	<0.0025	0.00084 (J)					
2/28/2019				0.00019 (J)			
4/2/2019				<0.0025			
4/4/2019	<0.0025	0.00077 (J)	<0.0025				
9/18/2019	<0.0025	0.00011 (J)	0.00018 (J)	0.00045 (J)			
2/7/2020	<0.0025	0.00016 (J)	0.00077	0.00024 (J)			
3/18/2020	<0.0025	0.00016 (J)	0.00052 (J)				
5/4/2020				0.00018 (J)			
9/23/2020	<0.0025	<0.0025	0.0009 (J)	0.00024 (J)			
2/3/2021				0.00025 (J)			
2/4/2021	0.00015 (J)	0.00026 (J)	0.00042 (J)				
3/11/2021		0.00013 (J)	0.00035 (J)	0.00022 (J)			
3/12/2021	<0.0025						
8/25/2021		<0.0025	0.00042 (J)				
8/26/2021	<0.0025			0.00022 (J)	0.00046 (J)	0.00042 (J)	0.00038 (J)
1/11/2022						0.00032 (J)	0.00025 (J)
1/12/2022					0.00037 (J)		
3/3/2022	<0.0025	<0.0025		0.00034 (J)		0.00042 (J)	
3/4/2022			0.00026 (J)		<0.0025		0.00034 (J)
6/6/2022						0.001 (J)	
6/7/2022					<0.0025		<0.0025
8/16/2022			<0.0025			0.00039 (J)	
8/17/2022	<0.0025	<0.0025		<0.0025			
8/18/2022					<0.0025		
8/19/2022							<0.0025
2/15/2023	<0.0025	<0.0025					<0.0025
2/16/2023			<0.0025	0.00053 (J)	<0.0025	<0.0025	
8/15/2023					<0.0025		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
8/18/2023		<0.0025					
8/21/2023	<0.0025		<0.0025	0.00026 (J)		<0.0025	<0.0025
2/13/2024					<0.0025		
2/14/2024							<0.0025
2/15/2024	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9	WGWC-28D
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	0.00017 (J)	0.13	0.005		0.0005 (J)	<0.0025	
1/11/2022	0.00016 (J)	0.11	0.0048				
3/3/2022		0.086			0.0003 (J)	<0.0025	
3/4/2022	<0.0025		0.004				
6/6/2022	<0.0025	0.042					
6/7/2022			0.0043				
8/16/2022					0.00075 (J)		
8/17/2022	<0.0025		0.0037			<0.0025	
8/18/2022		0.031					
10/19/2022				0.002 (J)			
2/15/2023	<0.0025	0.084	0.0049			<0.0025	
2/16/2023				0.0013 (J)	<0.0025		
8/15/2023				0.0018 (J)			
8/18/2023			0.0081		<0.0025		
8/21/2023	<0.0025	0.035				<0.0025	
2/13/2024					<0.0025		
2/14/2024		0.045				<0.0025	0.00064 (J)
2/15/2024	<0.0025		0.0062	0.0018 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/18/2024 12:31 PM View: Analysis

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
5/17/2016		0.0525 (U)	0.184 (U)	0.13 (U)			
5/18/2016					0.025 (U)	1.04	0.325 (U)
7/19/2016		7.25 (O)	0.27 (U)	0.121 (U)			0.433 (U)
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	
11/9/2016		0.221 (U)	0.219 (U)	0.217 (U)			
11/10/2016					0.421	1.13	
1/17/2017		0.295 (U)		0.595			
1/18/2017					0.434 (U)	1.76	
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)
4/24/2017		0.36 (U)		0.367			
4/25/2017			0.109 (U)		0.224 (U)	1.13	0.105 (U)
8/8/2017		0.382	0.0842 (U)	0.402	0.127 (U)		
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
6/13/2018		-0.0181 (U)	0.401				0.275 (U)
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				
10/3/2018					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)
4/1/2019		0.169 (U)		-0.00216 (U)			
4/2/2019			0.0436 (U)		0.361	0.602	0.255 (U)
9/16/2019		0.31 (U)					0.318 (U)
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)
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)
9/21/2020				0.418 (U)	0.0688 (U)	1.07	
9/22/2020		0.729	0.557 (U)				0.954
2/2/2021		0.243 (U)	0.354 (U)	0.202 (U)	0.182 (U)	1.05	
2/3/2021							-0.314 (U)
3/10/2021			0.218 (U)	0.378 (U)	-0.177 (U)	1.47	0.144 (U)
3/11/2021		0.046 (U)					
8/23/2021				0.632			
8/24/2021		0.598				1.61	0.226 (U)
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)
3/3/2022			0.474				
8/15/2022		0.559		0.725			2.38
8/16/2022			1.18		0.628	2.02	
2/14/2023		0.827	0.753	0.421 (U)	0.605		0.741
2/15/2023						1.59	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/18/2024 12:31 PM View: Analysis

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
9/20/2023		1.04		0.585 (U)			
9/21/2023	1.44						
9/28/2023			0.426 (U)		0.569 (U)	1.4	0.391 (U)
2/13/2024		0.208 (U)	0.309 (U)	0.0248 (U)	-0.146 (U)	2.21	
2/15/2024	1.06						
2/16/2024							0.558 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/18/2024 12:31 PM View: Analysis

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
5/18/2016	8	0.268 (U)	0.182 (U)				
5/19/2016				0.431 (U)	0.0698 (U)	0.219 (U)	
7/19/2016	7.69	0.369 (U)					
7/20/2016			-0.135 (U)	-0.263 (U)	-0.0646 (U)	0.404 (U)	
9/13/2016	6.98	0.527 (U)					
9/14/2016			0.311 (U)	0.13 (U)	0.199 (U)	0.692	
11/9/2016	8.78						
11/10/2016		0.871				1	
11/11/2016			0.542	0.0257 (U)	0.467		
1/18/2017	10.4	0.213 (U)					
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	0.589 (O)	0.0192 (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	8.22	0.0872 (U)					
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	7.21	0.219 (U)					
8/9/2017						0.816	
8/10/2017			0.189 (U)	0.326 (U)	0.912		
3/28/2018	7.52	0.315 (U)					
3/29/2018				0.461	0.419	0.51	0.58
3/30/2018			0.575				
6/13/2018	8.77						
6/14/2018		0.41	0.523	0.275 (U)	-0.263 (U)	0.463	0.55
10/2/2018	8.72						
10/3/2018		0.65					
10/4/2018			0.84	1.18	1.29	0.99	0.563
2/26/2019	8.93	0.395					
2/27/2019			0.236 (U)	0.374	0.415	1.08	0.538
4/2/2019	7.8	0.182 (U)					
4/3/2019				0.187 (U)	0.264 (U)	0.446	0.497
4/4/2019			0.233 (U)				
9/16/2019	8.55						
9/18/2019		0.299 (U)				0.392	0.376 (U)
9/19/2019			0.124 (U)	0.338 (U)	0.329 (U)		
2/4/2020	8.3						
2/5/2020		-0.0263 (U)	0.0961 (U)	0.163 (U)	0.225 (U)	0.609	0.5
3/17/2020	8.88	0.258 (U)					
3/18/2020			0.461 (U)	0.866	-0.0262 (U)		
3/19/2020						0.47	0.376 (U)
9/22/2020	7.65	0.0523 (U)					
9/23/2020			0.442 (U)		0.785		
9/24/2020				1.2		1.02	0.796
2/2/2021		0.167 (U)					
2/3/2021	9.99			0.718	0.322 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/18/2024 12:31 PM View: Analysis

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
2/4/2021			0.0332 (U)			0.139 (U)	0.564
3/10/2021		0.224 (U)					
3/11/2021	9.2		0.42 (U)			0.473	0.764
3/12/2021				0.0729 (U)	0.633		
8/24/2021	9.78	0.465 (U)					
8/25/2021				0.401	0.443 (U)	0.913	0.705
8/26/2021			0.321 (U)				
3/1/2022	9.86						
3/3/2022		0.415	0.587	0.622		0.621	0.956
3/4/2022					0.408		
8/15/2022	9.58						
8/16/2022		0.653		0.5			
8/18/2022					0.279 (U)	0.719	
8/19/2022			0.497 (U)				0.932
2/14/2023	8.54	-0.0224 (U)					
2/16/2023			0.326 (U)	0.417 (U)	0.388 (U)	0.2 (U)	0.455 (U)
9/28/2023	11.4	-0.139 (U)	-0.112 (U)	0.297 (U)	0.45 (U)	-0.09 (U)	0.277 (U)
2/13/2024	10.8	-0.137 (U)					
2/14/2024					0.813		
2/15/2024			0.126 (U)			0.585	0.482 (U)
2/16/2024				-0.00801 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/18/2024 12:31 PM View: Analysis

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	0.569	1.03	0.116 (U)				
7/19/2016	0.29 (U)	2.39					
7/20/2016			0.247 (U)				
9/14/2016	0.412 (U)	3.05	0.594				
11/10/2016	0.709	2.87	0.431				
11/11/2016				-0.11 (U)			
1/20/2017			1.35				
1/24/2017	0.779	2.68					
2/6/2017				0.471			
3/14/2017	0.247 (U)		-0.107 (U)				
3/15/2017		1.64		0.255 (U)			
4/11/2017				0.19 (U)			
4/25/2017	0.515	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	1.7	2.5	-0.0246 (U)				
8/10/2017				0.882			
3/29/2018		1.6		0.252 (U)			
3/30/2018	0.0985 (U)		0.135 (U)				
6/14/2018	0.171 (U)	1.09	-0.373 (U)	0.0458 (U)			
10/3/2018	0.766						
10/4/2018		1.99	0.775	0.381			
2/26/2019			0.431				
2/27/2019	0.363 (U)	0.721					
2/28/2019				0.254 (U)			
4/2/2019				0.209 (U)			
4/4/2019	0.418	0.632	0.386				
9/18/2019	0.484	0.278 (U)	0.167 (U)	0.403 (U)			
2/7/2020	0.125 (U)	0.797	0.244 (U)	0.2 (U)			
3/18/2020	0.303 (U)	0.437	0.0655 (U)				
5/4/2020				0.0697 (U)			
9/23/2020	0.448 (U)	0.276 (U)	0.643	1.18			
2/3/2021				0.684			
2/4/2021	0.488 (U)	0.727	0.438 (U)				
3/11/2021		0.942	0.247 (U)	0.286 (U)			
3/12/2021	0.591						
8/25/2021		0.518	0.565				
8/26/2021	0.678			0.796	1.6	1.17	3.54
1/11/2022						0.919	6.91
1/12/2022					1.09		
3/3/2022	0.358 (U)	0.573		0.909		1.31	
3/4/2022			0.573		0.925		7.57
6/6/2022						2.61	
6/7/2022					0.67		4.67
8/16/2022			0.668			1.35	
8/17/2022	0.563	0.946		0.155 (U)			
8/18/2022					0.994		
8/19/2022							3.07
2/15/2023	0.0878 (U)	0.734					5.98
2/16/2023			0.121 (U)	0.248 (U)	0.853	0.617	
9/13/2023					0.591 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/18/2024 12:31 PM View: Analysis

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
9/21/2023						2.44	4.47
9/28/2023	0.0271 (U)	0.732	0.533 (U)	0.369 (U)			
2/13/2024					1.06		
2/14/2024							5.46
2/15/2024	0.607	0.582	0.257 (U)	0.523		1.3	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/18/2024 12:31 PM View: Analysis

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9	WGWC-28D
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	0.703	1.63	1.12		2.87	0.681	
1/11/2022	0.218 (U)	0.749	0.606				
3/3/2022		0.893			3.18	0.431 (U)	
3/4/2022	0.437 (U)		0.818				
6/6/2022	1.45	0.845					
6/7/2022			0.5				
8/16/2022					2.4		
8/17/2022	0.976		0.763			0.139 (U)	
8/18/2022		1.03					
10/19/2022				0.185 (U)			
2/15/2023	0.985	0.974	0.873			0.0109 (U)	
2/16/2023				2.16	3.04		
9/13/2023				3.88			
9/21/2023	1.91	1.62					
9/28/2023			0.581 (U)		2.65	0.209 (U)	
2/13/2024					2.44		
2/14/2024		0.674				0.279 (U)	13.3
2/15/2024	0.232 (U)		0.672	5.82			

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (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)
7/19/2016		<0.2	0.21	<0.2			<0.2
7/20/2016					<0.2	0.17 (J)	
9/13/2016		<0.2	0.15 (J)	<0.2	<0.2	0.15 (J)	
9/14/2016							0.095 (J)
11/9/2016		<0.2	<0.2	0.085 (J)			
11/10/2016					<0.2	0.12 (J)	
1/17/2017		<0.2		<0.2			
1/18/2017					<0.2	0.15 (J)	
1/19/2017			0.087 (J)				<0.2
3/13/2017		<0.2		<0.2			
3/14/2017			<0.2		<0.2	0.13 (J)	<0.2
4/24/2017		<0.2		<0.2			
4/25/2017			<0.2		<0.2	0.12 (J)	<0.2
8/8/2017		<0.2	0.087 (J)	<0.2	<0.2		
8/9/2017						0.14 (J)	<0.2
10/10/2017		<0.2		0.18 (J)			
10/11/2017			0.09 (J)		<0.2	0.14 (J)	<0.2
3/27/2018		<0.2		<0.2			
3/28/2018			0.11 (J)		<0.2	0.12 (J)	<0.2
6/13/2018		<0.2	0.085 (J)				<0.2
6/14/2018				<0.2	<0.2	0.12 (J)	
9/24/2018				<0.2			
9/27/2018		<0.2					
9/28/2018			0.082 (J)				
10/3/2018					<0.2	0.13 (J)	<0.2
2/25/2019		<0.2		0.032 (J)			
2/26/2019			0.23		<0.2	0.14 (J)	<0.2
4/1/2019		<0.2		0.061 (J)			
4/2/2019			0.21		0.039 (J)	0.14 (J)	<0.2
9/16/2019		0.03 (J)					<0.2
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	<0.2
2/5/2020			0.12				
3/16/2020		0.042 (J)		0.052 (J)			
3/17/2020			<0.2		0.04 (J)	0.11	<0.2
9/21/2020				0.037 (J)	<0.2	0.091 (J)	
9/22/2020		<0.2	0.1				<0.2
2/2/2021		0.028 (J)	0.071 (J)	0.065 (J)	0.035 (J)	0.15	
2/3/2021							<0.2
3/9/2021	0.26						
3/10/2021			0.046 (J)	0.045 (J)	<0.2	0.12	<0.2
3/11/2021		<0.2					
4/7/2021	0.22						
8/23/2021				0.097 (J)			
8/24/2021		0.062 (J)				0.17	0.073 (J)
8/25/2021			0.13		0.077 (J)		
2/28/2022						0.083 (J)	
3/1/2022		<0.2		0.058 (J)	<0.2		<0.2

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
3/3/2022			0.078 (J)				
8/15/2022		<0.2		0.057 (J)			<0.2
8/16/2022			0.06 (J)		<0.2	0.12	
2/14/2023		<0.2	0.053 (J)	0.07 (J)	0.041 (J)		<0.2
2/15/2023						0.14	
8/22/2023		<0.2	0.051 (J)	0.061 (J)	0.04 (J)	0.14	<0.2
8/23/2023	0.22						
2/13/2024		<0.2	0.076 (J)	<0.2	<0.2	0.087 (J)	
2/15/2024	0.29 (J)						
2/16/2024							<0.2

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
5/18/2016	0.106 (J)	0.018 (J)	0.206				
5/19/2016				0.039 (J)	0.12 (J)	0.384	
7/19/2016	0.11 (J)	<0.2					
7/20/2016			0.23	<0.2	0.11 (J)	0.34	
9/13/2016	0.11 (J)	<0.2					
9/14/2016			0.17 (J)	<0.2	0.095 (J)	0.31	
11/9/2016	0.1 (J)						
11/10/2016		<0.2				0.26	
11/11/2016			0.14 (J)	<0.2	<0.2		
1/18/2017	0.11 (J)	<0.2					
1/27/2017				<0.2	<0.2	0.28	
2/6/2017			0.15 (J)				
2/8/2017							<0.2
2/23/2017							<0.2
3/14/2017	<0.2	<0.2					
3/15/2017			0.16 (J)	<0.2	<0.2	0.3	
3/17/2017							<0.2
4/11/2017							<0.2
4/25/2017	<0.2	<0.2					
4/26/2017			0.17 (J)	<0.2	<0.2	0.33	<0.2
5/17/2017							<0.2
6/7/2017							<0.2
7/11/2017							<0.2
8/8/2017	0.099 (J)	<0.2					
8/9/2017						0.32	
8/10/2017			0.2	<0.2	0.11 (J)		
10/11/2017	0.098 (J)	<0.2					<0.2
10/12/2017			0.14 (J)	<0.2	0.091 (J)	0.28	
3/28/2018	0.088 (J)	<0.2					
3/29/2018				<0.2	0.089 (J)	0.27	<0.2
3/30/2018			0.13 (J)				
6/13/2018	0.093 (J)						
6/14/2018		<0.2	0.15 (J)	<0.2	0.1 (J)	0.27	<0.2
10/2/2018	0.13 (J)						
10/3/2018		<0.2					
10/4/2018			0.18 (J)	<0.2	0.12 (J)	0.23	<0.2
2/26/2019	0.074 (J)	<0.2					
2/27/2019			0.21	0.047 (J)	0.06 (J)	0.25	<0.2
4/2/2019	0.09 (J)	<0.2					
4/3/2019				0.048 (J)	0.084 (J)	0.24	0.048 (J)
4/4/2019			0.13 (J)				
9/16/2019	0.1 (J)						
9/18/2019		0.027 (J)				0.22	0.035 (J)
9/19/2019			0.13 (J)	0.037 (J)	0.093 (J)		
2/4/2020	0.13						
2/5/2020		0.026 (J)	0.14	0.045 (J)	0.098 (J)	0.2	0.04 (J)
3/17/2020	0.037 (J)	0.044 (J)					
3/18/2020			0.052 (J)	<0.2	0.033 (J)		
3/19/2020						0.15	<0.2
9/22/2020	0.068 (J)	<0.2					
9/23/2020			0.09 (J)		0.064 (J)		
9/24/2020				0.18		<0.2	0.028 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
2/2/2021		<0.2					
2/3/2021	0.088 (J)			0.027 (J)	0.082 (J)		
2/4/2021			0.12			0.16	0.033 (J)
3/10/2021		<0.2					
3/11/2021	0.092 (J)		0.15			0.18	0.04 (J)
3/12/2021				0.044 (J)	0.096 (J)		
8/24/2021	0.16	0.054 (J)					
8/25/2021				0.056 (J)	0.14	0.2	0.071 (J)
8/26/2021			0.16				
3/1/2022	0.063 (J)						
3/3/2022		0.038 (J)	0.067 (J)	0.055 (J)		0.21	0.057 (J)
3/4/2022					0.068 (J)		
8/15/2022	0.093 (J)						
8/16/2022		<0.2		<0.2			
8/18/2022					0.073 (J)	0.14	
8/19/2022			0.1				<0.2
2/14/2023	0.11	<0.2					
2/16/2023			0.11	0.041 (J)	0.089 (J)	0.15	<0.2
8/22/2023	0.12	<0.2					
8/23/2023			0.1	0.041 (J)	0.083 (J)	0.13	0.04 (J)
2/13/2024	0.07 (J)	<0.2					
2/14/2024					0.044 (J)		
2/15/2024			<0.2			0.21 (J)	<0.2
2/16/2024				<0.2			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	0.779	0.1 (J)	0.121 (J)				
7/19/2016	0.97	0.14 (J)					
7/20/2016			0.16 (J)				
9/14/2016	0.89	0.18 (J)	0.19 (J)				
11/10/2016	0.88	0.11 (J)	0.15 (J)				
11/11/2016				0.32			
1/20/2017			0.18 (J)				
1/24/2017	0.92	0.15 (J)					
2/6/2017				0.45			
3/14/2017	0.77		0.11 (J)				
3/15/2017		0.1 (J)		0.37			
4/11/2017				0.37			
4/25/2017	0.95	0.13 (J)	0.13 (J)				
4/26/2017				0.4			
6/7/2017				0.35			
7/11/2017				0.39			
8/9/2017	0.91	0.18 (J)	0.19 (J)				
8/10/2017				0.42			
10/11/2017	0.88	<0.2	0.14 (J)				
10/12/2017				0.36			
3/29/2018		0.13 (J)		0.34			
3/30/2018	0.79		0.095 (J)				
6/14/2018	0.79	<0.2	0.11 (J)	0.35			
10/3/2018	0.79						
10/4/2018		0.85 (J)	0.11 (J)	0.35			
2/26/2019			0.068 (J)				
2/27/2019	0.81	0.47					
2/28/2019				0.28			
4/2/2019				0.33			
4/4/2019	0.78	0.08 (J)	0.087 (J)				
9/18/2019	0.81	0.058 (J)	0.066 (J)	0.32			
2/7/2020	0.79	0.072 (J)	0.079 (J)	0.35			
3/18/2020	0.71	0.084 (J)	<0.2				
5/4/2020				0.36			
9/23/2020	0.63	0.049 (J)	0.05 (J)	0.25			
2/3/2021				0.3			
2/4/2021	0.69	0.052 (J)	0.064 (J)				
3/8/2021					1.8		
3/9/2021						1.7	1.1
3/11/2021		0.061 (J)	0.05 (J)	0.31			
3/12/2021	0.88						
4/7/2021						1.6	
4/8/2021					1.7		1.4
8/25/2021		0.099 (J)	0.093 (J)				
8/26/2021	0.77			0.38	2	2	0.51
1/11/2022						1.9	0.45
1/12/2022					1.8		
3/3/2022	0.88	0.067 (J)		0.4		1.8	
3/4/2022			0.06 (J)		2		0.42
6/6/2022						1.9	
6/7/2022					2.5		0.37
8/16/2022			0.06 (J)			1.8	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
8/17/2022	0.68	0.062 (J)		0.28			
8/18/2022					2		
8/19/2022							0.31
2/15/2023	0.73	0.076 (J)					0.31
2/16/2023			0.069 (J)	0.33	1.9	1.9	
8/17/2023					2.1		
8/22/2023		0.065 (J)					
8/23/2023	0.73		0.064 (J)	0.34		1.8	0.32
2/13/2024					<0.2		
2/14/2024							0.23
2/15/2024	0.89	<0.2	<0.2	0.4		2.2	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9	WGWC-28D
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			<0.2				
3/9/2021	0.092 (J)	1					
3/11/2021					0.16		
3/12/2021						0.98	
4/7/2021	0.093 (J)	1.1					
4/8/2021			0.028 (J)				
8/26/2021	0.081 (J)	1.2	0.047 (J)		0.21	1	
1/11/2022	0.045 (J)	1	0.028 (J)				
3/3/2022		0.71			0.19	1	
3/4/2022	0.045 (J)		0.038 (J)				
6/6/2022	0.028 (J)	0.43					
6/7/2022			<0.2				
8/16/2022					0.21		
8/17/2022	0.043 (J)		<0.2			0.9	
8/18/2022		0.24					
10/19/2022				0.52			
2/15/2023	0.048 (J)	0.63	<0.2			0.85	
2/16/2023				0.92	0.14		
8/17/2023				1.1			
8/22/2023			0.049 (J)		0.15 (J)	0.9	
8/23/2023	0.045 (J)	0.28					
2/13/2024					<0.2		
2/14/2024		<0.2				0.73	<0.2
2/15/2024	<0.2		<0.2	1.2			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
5/17/2016		<0.001	<0.001	<0.001			
5/18/2016					<0.001	<0.001	<0.001
7/19/2016		<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	
9/14/2016							<0.001
11/9/2016		<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	
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
4/24/2017		<0.001		<0.001			
4/25/2017			<0.001		<0.001	<0.001	<0.001
8/8/2017		<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
2/25/2019		<0.001		0.00019 (J)			
2/26/2019			<0.001		<0.001	0.00046 (J)	0.00028 (J)
4/1/2019		<0.001		<0.001			
4/2/2019			<0.001		<0.001	<0.001	<0.001
9/16/2019		<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)
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
9/21/2020				<0.001	<0.001	<0.001	
9/22/2020		<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)
3/10/2021			<0.001	0.00019 (J)	<0.001	<0.001	<0.001
3/11/2021		<0.001					
8/23/2021				0.00023 (J)			
8/24/2021		<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
3/3/2022			<0.001				
8/15/2022		<0.001		<0.001			<0.001
8/16/2022			<0.001		<0.001	<0.001	
2/14/2023		<0.001	<0.001	<0.001	<0.001		<0.001
2/15/2023						<0.001	
8/18/2023		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/21/2023	<0.001						
2/13/2024		<0.001	<0.001	<0.001	<0.001	<0.001	
2/15/2024	<0.001						
2/16/2024							<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
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	<0.001					
9/14/2016			<0.001	<0.001	<0.001	0.00055 (J)	
11/9/2016	<0.001						
11/10/2016		<0.001				0.00047 (J)	
11/11/2016			<0.001	<0.001	<0.001		
1/18/2017	<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	<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	<0.001					
8/9/2017						<0.001	
8/10/2017			<0.001	<0.001	<0.001		
3/28/2018	<0.001	<0.001					
3/29/2018				<0.001	<0.001	<0.001	<0.001
3/30/2018			<0.001				
2/26/2019	0.00037 (J)	<0.001					
2/27/2019			0.00023 (J)	0.00058 (J)	<0.001	0.00068 (J)	<0.001
4/2/2019	<0.001	<0.001					
4/3/2019				<0.001	<0.001	0.00047 (J)	<0.001
4/4/2019			<0.001				
9/16/2019	<0.001						
9/18/2019		<0.001				0.00045 (J)	<0.001
9/19/2019			0.00041 (J)	<0.001	<0.001		
2/4/2020	<0.001						
2/5/2020		<0.001	0.00016 (J)	<0.001	<0.001	0.00045 (J)	<0.001
3/17/2020	0.00017 (J)	<0.001					
3/18/2020			0.00021 (J)	<0.001	<0.001		
3/19/2020						0.0006 (J)	0.00017 (J)
9/22/2020	<0.001	<0.001					
9/23/2020			0.00013 (J)		<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	<0.001		
2/4/2021			0.00019 (J)			0.00038 (J)	0.00013 (J)
3/10/2021		<0.001					
3/11/2021	<0.001		0.00032 (J)			0.00075 (J)	0.00031 (J)
3/12/2021				0.00038 (J)	<0.001		
8/24/2021	<0.001	<0.001					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
8/25/2021				0.00023 (J)	<0.001	0.00025 (J)	0.00041 (J)
8/26/2021			0.00026 (J)				
3/1/2022	<0.001						
3/3/2022		<0.001	0.00025 (J)	<0.001		0.00023 (J)	0.00057 (J)
3/4/2022					0.00033 (J)		
8/15/2022	0.00019 (J)						
8/16/2022		<0.001		<0.001			
8/18/2022					<0.001	0.0011	
8/19/2022			0.0003 (J)				0.00036 (J)
2/14/2023	<0.001	<0.001					
2/16/2023			<0.001	<0.001	<0.001	0.00027 (J)	0.00024 (J)
8/18/2023	<0.001	<0.001					
8/21/2023			<0.001	<0.001	<0.001	0.00025 (J)	0.00022 (J)
2/13/2024	<0.001	<0.001					
2/14/2024					<0.001		
2/15/2024			0.0007 (J)			<0.001	0.00029 (J)
2/16/2024				<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	<0.001	<0.001	<0.001				
7/19/2016	<0.001	<0.001					
7/20/2016			<0.001				
9/14/2016	<0.001	<0.001	<0.001				
11/10/2016	<0.001	<0.001	<0.001				
11/11/2016				<0.001			
1/20/2017			<0.001				
1/24/2017	<0.001	<0.001					
2/6/2017				<0.001			
3/14/2017	<0.001		<0.001				
3/15/2017		<0.001		<0.001			
4/11/2017				<0.001			
4/25/2017	<0.001	<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	<0.001				
8/10/2017				<0.001			
3/29/2018		<0.001		<0.001			
3/30/2018	<0.001		<0.001				
2/26/2019			0.00033 (J)				
2/27/2019	<0.001	0.00014 (J)					
2/28/2019				<0.001			
4/2/2019				<0.001			
4/4/2019	<0.001	<0.001	<0.001				
9/18/2019	<0.001	<0.001	<0.001	<0.001			
2/7/2020	<0.001	<0.001	<0.001	<0.001			
3/18/2020	<0.001	<0.001	0.0002 (J)				
5/4/2020				<0.001			
9/23/2020	<0.001	<0.001	<0.001	<0.001			
2/3/2021				<0.001			
2/4/2021	0.0003 (J)	0.00013 (J)	<0.001				
3/11/2021		<0.001	<0.001	<0.001			
3/12/2021	<0.001						
8/25/2021		<0.001	<0.001				
8/26/2021	<0.001			<0.001	<0.001	<0.001	0.00022 (J)
1/11/2022						<0.001	0.00023 (J)
1/12/2022					<0.001		
3/3/2022	<0.001	<0.001		0.0003 (J)		<0.001	
3/4/2022			<0.001		<0.001		0.00036 (J)
6/6/2022						<0.001	
6/7/2022					<0.001		<0.001
8/16/2022			<0.001			<0.001	
8/17/2022	<0.001	<0.001		<0.001			
8/18/2022					<0.001		
8/19/2022							0.00037 (J)
2/15/2023	<0.001	<0.001					0.00023 (J)
2/16/2023			<0.001	<0.001	<0.001	<0.001	
8/15/2023					<0.001		
8/18/2023		<0.001					
8/21/2023	<0.001		<0.001	<0.001		<0.001	<0.001
2/13/2024					<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
2/14/2024							<0.001
2/15/2024	<0.001	<0.001	<0.001	<0.001		<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9	WGWC-28D
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	<0.001	0.0012	<0.001		0.00014 (J)	<0.001	
1/11/2022	<0.001	0.00082 (J)	<0.001				
3/3/2022		0.00076 (J)			0.00052 (J)	<0.001	
3/4/2022	<0.001		<0.001				
6/6/2022	<0.001	0.00047 (J)					
6/7/2022			<0.001				
8/16/2022					0.00041 (J)		
8/17/2022	<0.001		<0.001			<0.001	
8/18/2022		0.00032 (J)					
10/19/2022				<0.001			
2/15/2023	0.0046	0.00056 (J)	<0.001			<0.001	
2/16/2023				<0.001	0.00029 (J)		
8/15/2023				<0.001			
8/18/2023			<0.001		<0.001		
8/21/2023	<0.001	0.00029 (J)				<0.001	
2/13/2024					<0.001		
2/14/2024		0.00037 (J)				<0.001	0.00022 (J)
2/15/2024	<0.001		<0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (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)
7/19/2016		<0.005	<0.005	0.005			<0.005
7/20/2016					<0.005	0.0041 (J)	
9/13/2016		<0.005	<0.005	0.0075	<0.005	0.0042 (J)	
9/14/2016							<0.005
11/9/2016		0.0032 (J)	<0.005	0.0078			
11/10/2016					<0.005	0.0048 (J)	
1/17/2017		<0.005		0.009			
1/18/2017					<0.005	0.0033 (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
4/24/2017		<0.005		0.0049 (J)			
4/25/2017			<0.005		<0.005	0.0037 (J)	<0.005
8/8/2017		0.0032 (J)	<0.005	0.0075	<0.005		
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
6/13/2018		0.0033 (J)	<0.005				<0.005
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)				
10/3/2018					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
4/1/2019		0.0044 (J)		0.0055			
4/2/2019			0.0012 (J)		<0.005	0.0036 (J)	0.0016 (J)
9/16/2019		0.004 (J)					0.028 (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
2/5/2020			<0.005				
3/16/2020		0.0053		0.0083			
3/17/2020			<0.005		<0.005	0.0059	<0.005
9/21/2020				0.0075	<0.005	0.005	
9/22/2020		0.0036 (J)	<0.005				<0.005
2/2/2021		<0.005	<0.005	0.0065	<0.005	0.0039 (J)	
2/3/2021							<0.005
3/10/2021			<0.005	0.0075	<0.005	0.0049 (J)	<0.005
3/11/2021		0.0039 (J)					
8/23/2021				0.0066			
8/24/2021		<0.005				0.0036 (J)	<0.005
8/25/2021			<0.005		<0.005		
2/28/2022						0.005	
3/1/2022		0.0029 (J)		0.0085	<0.005		<0.005
3/3/2022			<0.005				
8/15/2022		0.0032 (J)		0.007			<0.005
8/16/2022			<0.005		<0.005	0.0043 (J)	
2/14/2023		0.0029 (J)	<0.005	0.006	<0.005		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
2/15/2023						0.0041 (J)	
8/18/2023		<0.005	<0.005	0.0026 (J)	<0.005	<0.005	<0.005
8/21/2023	0.028						
2/13/2024		0.0049 (J)	0.0028 (J)	0.0082	<0.005	0.0061	
2/15/2024	0.031						
2/16/2024							<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
5/18/2016	<0.05 (O)	<0.05 (O)	0.032				
5/19/2016				<0.005	<0.05	<0.005	
7/19/2016	0.0043 (J)	<0.005					
7/20/2016			0.021	<0.005	0.0057	<0.005	
9/13/2016	0.0045 (J)	<0.005					
9/14/2016			0.02	<0.005	0.0077	<0.005	
11/9/2016	0.0036 (J)						
11/10/2016		<0.005				0.0038 (J)	
11/11/2016			0.017	<0.005	0.007		
1/18/2017	0.0046 (J)	<0.005					
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	0.0038 (J)	<0.005					
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	<0.005					
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	0.0043 (J)	<0.005					
8/9/2017						<0.005	
8/10/2017			0.011	<0.005	0.0064		
3/28/2018	0.0064	0.0014 (J)					
3/29/2018				0.0018 (J)	0.01	0.0022 (J)	0.0025 (J)
3/30/2018			0.016				
6/13/2018	0.0041 (J)						
6/14/2018		<0.005	0.0084	0.0011 (J)	0.0062	0.0018 (J)	0.0018 (J)
10/2/2018	0.0038 (J)						
10/3/2018		<0.005					
10/4/2018			0.0085	0.0014 (J)	0.0066	0.0025 (J)	0.0016 (J)
2/26/2019	0.0068	<0.005					
2/27/2019			0.0068	<0.005	0.0068	<0.005	<0.005
4/2/2019	0.0052	<0.005					
4/3/2019				<0.005	0.0075	<0.005	0.0015 (J)
4/4/2019			0.0059				
9/16/2019	0.032 (O)						
9/18/2019		<0.005				<0.005	<0.005
9/19/2019			0.0075	<0.005	0.0067		
2/4/2020	0.0053						
2/5/2020		<0.005	0.0061	<0.005	0.0063	<0.005	<0.005
3/17/2020	0.0055	<0.005					
3/18/2020			0.0071	<0.005	0.0081		
3/19/2020						<0.005	<0.005
9/22/2020	0.0049 (J)	<0.005					
9/23/2020			0.0054		0.007		
9/24/2020				<0.005		<0.005	<0.005
2/2/2021		<0.005					
2/3/2021	0.0047 (J)			<0.005	0.0075		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
2/4/2021			0.0049 (J)			<0.005	<0.005
3/10/2021		<0.005					
3/11/2021	0.005		0.0051			0.0037 (J)	0.0035 (J)
3/12/2021				<0.005	0.0089		
8/24/2021	0.0041 (J)	<0.005					
8/25/2021				<0.005	0.0061	<0.005	<0.005
8/26/2021			0.0044 (J)				
3/1/2022	0.006						
3/3/2022		<0.005	0.0038 (J)	<0.005		0.0018 (J)	0.0019 (J)
3/4/2022					0.0061		
8/15/2022	0.0047 (J)						
8/16/2022		<0.005		0.00092 (J)			
8/18/2022					0.0063	0.0024 (J)	
8/19/2022			0.0049 (J)				0.0021 (J)
2/14/2023	0.0045 (J)	<0.005					
2/16/2023			0.0025 (J)	<0.005	0.0036 (J)	<0.005	<0.005
8/18/2023	<0.005	<0.005					
8/21/2023			0.0024 (J)	<0.005	0.0056	<0.005	<0.005
2/13/2024	0.0054	<0.005					
2/14/2024					0.0045 (J)		
2/15/2024			0.0088			<0.005	<0.005
2/16/2024				<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	<0.005	<0.005	<0.05				
7/19/2016	0.0036 (J)	0.0091					
7/20/2016			0.0042 (J)				
9/14/2016	<0.005	0.012	0.0058				
11/10/2016	0.0064	0.013	0.0066				
11/11/2016				0.045			
1/20/2017			0.0044 (J)				
1/24/2017	0.0075	0.011					
2/6/2017				0.05			
3/14/2017	0.0057		0.0048 (J)				
3/15/2017		0.01		0.052			
4/11/2017				0.048			
4/25/2017	0.0059	0.0081	0.0049 (J)				
4/26/2017				0.044			
6/7/2017				0.047			
7/11/2017				0.045			
8/9/2017	0.0068	0.013	0.0067				
8/10/2017				0.056			
3/29/2018		0.015		0.072			
3/30/2018	0.0077		0.0067				
6/14/2018	0.0052	0.009	0.0046 (J)	0.048			
10/3/2018	0.006						
10/4/2018		0.012	0.005	0.062			
2/26/2019			0.0063				
2/27/2019	0.0055	0.0075					
2/28/2019				0.045			
4/2/2019				0.052			
4/4/2019	0.0054	0.0077	0.0042 (J)				
9/18/2019	0.0054	0.0056	0.0047 (J)	0.052			
2/7/2020	0.0068	0.0053	0.0045 (J)	0.044			
3/18/2020	0.0086	0.0057	0.0054				
5/4/2020				0.049			
9/23/2020	0.0071	0.0059	0.0056	0.056			
2/3/2021				0.06			
2/4/2021	0.0086	0.0051	0.0047 (J)				
3/8/2021					0.11		
3/9/2021						0.022	0.011
3/11/2021		0.005	0.0049 (J)	0.051			
3/12/2021	0.0096						
4/7/2021						0.031	
4/8/2021					0.11		0.0081
8/25/2021		0.0046 (J)	0.0048 (J)				
8/26/2021	0.0059			0.057	0.11	0.032	0.011
1/11/2022						0.038	0.011
1/12/2022					0.15		
3/3/2022	0.0068	0.0041 (J)		0.057		0.044	
3/4/2022			0.0042 (J)		0.14		0.011
6/6/2022						0.051	
6/7/2022					0.12		0.0093
8/16/2022			0.0053			0.059	
8/17/2022	0.0073	0.0042 (J)		0.056			
8/18/2022					0.11		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
8/19/2022							0.01
2/15/2023	0.0062	0.0044 (J)					0.009
2/16/2023			0.0026 (J)	0.053	0.14	0.053	
8/15/2023					0.13		
8/18/2023		<0.005					
8/21/2023	0.0055		0.0031 (J)	0.062		0.061	0.0069
2/13/2024					0.15		
2/14/2024							0.0028 (J)
2/15/2024	0.0055	0.0032 (J)	0.0026 (J)	0.056		0.074	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9	WGWC-28D
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	<0.005	0.0084					
3/11/2021					0.013		
3/12/2021						0.034	
4/7/2021	<0.005	0.0077					
4/8/2021			0.0044 (J)				
8/26/2021	<0.005	0.0076	0.0044 (J)		0.013	0.03	
1/11/2022	<0.005	0.0091	0.0043 (J)				
3/3/2022		0.0066			0.014	0.03	
3/4/2022	0.0015 (J)		0.0035 (J)				
6/6/2022	0.002 (J)	0.0044 (J)					
6/7/2022			0.004 (J)				
8/16/2022					0.014		
8/17/2022	0.0017 (J)		0.0036 (J)			0.028	
8/18/2022		0.0036 (J)					
10/19/2022				0.0072			
2/15/2023	<0.005	0.0068	0.0031 (J)			0.033	
2/16/2023				0.024	0.01		
8/15/2023				0.036			
8/18/2023			<0.005		0.0084		
8/21/2023	<0.005	0.0022 (J)				0.03	
2/13/2024					0.012		
2/14/2024		0.0044 (J)				0.026	0.21
2/15/2024	0.0044 (J)		0.0063	0.038			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
5/17/2016		<0.0002	<0.0002	<0.0002			
5/18/2016					<0.0002	<0.0002	<0.0002
7/19/2016		<0.0002	8.2E-05 (J)	8.1E-05 (J)			8.5E-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	
9/14/2016							<0.0002
11/9/2016		<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	
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
4/24/2017		<0.0002		<0.0002			
4/25/2017			<0.0002		<0.0002	<0.0002	<0.0002
8/8/2017		<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)
6/13/2018		<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				
10/3/2018					<0.0002	<0.0002	<0.0002
2/25/2019		<0.0002		<0.0002			
2/26/2019			<0.0002		<0.0002	<0.0002	<0.0002
2/3/2020		<0.0002		<0.0002			
2/4/2020					0.00016 (J)	0.00011 (J)	<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
9/21/2020				<0.0002	<0.0002	<0.0002	
9/22/2020		<0.0002	<0.0002				<0.0002
2/2/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/3/2021							<0.0002
2/28/2022						<0.0002	
3/1/2022		<0.0002		<0.0002	<0.0002		<0.0002
3/3/2022			<0.0002				
8/15/2022		<0.0002		<0.0002			<0.0002
8/16/2022			<0.0002		<0.0002	<0.0002	
2/14/2023		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
2/15/2023						<0.0002	
8/22/2023		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/24/2023	<0.0002						
2/13/2024		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/15/2024	<0.0002						
2/16/2024							<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
5/18/2016	<0.0002	<0.0002	<0.0002				
5/19/2016				<0.0002	<0.0002	<0.0002	
7/19/2016	8.4E-05 (J)	7.2E-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	<0.0002					
9/14/2016			<0.0002	<0.0002	<0.0002	<0.0002	
11/9/2016	<0.0002						
11/10/2016		8.7E-05 (J)				8.3E-05 (J)	
11/11/2016			8.5E-05 (J)	0.00011 (J)	7.9E-05 (J)		
1/18/2017	<0.0002	<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	<0.0002					
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	<0.0002					
8/9/2017						<0.0002	
8/10/2017			<0.0002	<0.0002	<0.0002		
3/28/2018	<0.0002	<0.0002					
3/29/2018				<0.0002	0.00011 (J)	<0.0002	<0.0002
3/30/2018			<0.0002				
6/13/2018	<0.0002						
6/14/2018		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/2/2018	<0.0002						
10/3/2018		<0.0002					
10/4/2018			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/26/2019	<0.0002	<0.0002					
2/27/2019			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/4/2020	<0.0002						
2/5/2020		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/17/2020	<0.0002	<0.0002					
3/18/2020			<0.0002	<0.0002	<0.0002		
3/19/2020						<0.0002	<0.0002
9/22/2020	<0.0002	<0.0002					
9/23/2020			<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	<0.0002		
2/4/2021			<0.0002			<0.0002	<0.0002
3/1/2022	<0.0002						
3/3/2022		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
3/4/2022					<0.0002		
8/15/2022	<0.0002						
8/16/2022		<0.0002		<0.0002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
8/18/2022					<0.0002	<0.0002	
8/19/2022			<0.0002				<0.0002
2/14/2023	<0.0002	<0.0002					
2/16/2023			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/22/2023	<0.0002	<0.0002					
8/24/2023			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/13/2024	<0.0002	<0.0002					
2/14/2024					<0.0002		
2/15/2024			<0.0002			<0.0002	<0.0002
2/16/2024				<0.0002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	<0.0002	<0.0002	<0.0002				
7/19/2016	9.3E-05 (J)	<0.0002					
7/20/2016			7.4E-05 (J)				
9/14/2016	<0.0002	<0.0002	<0.0002				
11/10/2016	8.5E-05 (J)	0.00012 (J)	<0.0002				
11/11/2016				7.6E-05 (J)			
1/20/2017			<0.0002				
1/24/2017	<0.0002	7E-05 (J)					
2/6/2017				0.00012 (J)			
3/14/2017	7.1E-05 (J)		<0.0002				
3/15/2017		<0.0002		<0.0002			
4/11/2017				<0.0002			
4/25/2017	<0.0002	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	<0.0002				
8/10/2017				<0.0002			
3/29/2018		<0.0002		<0.0002			
3/30/2018	8.6E-05 (J)		<0.0002				
6/14/2018	<0.0002	<0.0002	<0.0002	<0.0002			
10/3/2018	<0.0002						
10/4/2018		<0.0002	<0.0002	<0.0002			
2/26/2019			<0.0002				
2/27/2019	<0.0002	<0.0002					
2/28/2019				<0.0002			
2/7/2020	<0.0002	<0.0002	<0.0002	<0.0002			
3/18/2020	<0.0002	<0.0002	<0.0002				
5/4/2020				<0.0002			
9/23/2020	<0.0002	<0.0002	<0.0002	<0.0002			
2/3/2021				<0.0002			
2/4/2021	<0.0002	<0.0002	<0.0002				
8/26/2021					0.00033	0.0002	0.00018 (J)
1/11/2022						<0.0002	<0.0002
1/12/2022					<0.0002		
3/3/2022	<0.0002	<0.0002		<0.0002		<0.0002	
3/4/2022			<0.0002		<0.0002		<0.0002
6/6/2022						<0.0002	
6/7/2022					<0.0002		<0.0002
8/16/2022			<0.0002			<0.0002	
8/17/2022	<0.0002	<0.0002		<0.0002			
8/18/2022					<0.0002		
8/19/2022							<0.0002
2/15/2023	<0.0002	<0.0002					<0.0002
2/16/2023			<0.0002	<0.0002	<0.0002	<0.0002	
8/18/2023					<0.0002		
8/22/2023		<0.0002					
8/24/2023	<0.0002		<0.0002	<0.0002		<0.0002	<0.0002
2/13/2024					<0.0002		
2/14/2024							<0.0002
2/15/2024	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9	WGWC-28D
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	0.00022	0.00026	0.0019				
1/11/2022	<0.0002	<0.0002	<0.0002				
3/3/2022		<0.0002			<0.0002	<0.0002	
3/4/2022	<0.0002		<0.0002				
6/6/2022	<0.0002	<0.0002					
6/7/2022			<0.0002				
8/16/2022					<0.0002		
8/17/2022	<0.0002		<0.0002			<0.0002	
8/18/2022		<0.0002					
10/19/2022				<0.0002			
2/15/2023	<0.0002	<0.0002	<0.0002			<0.0002	
2/16/2023				<0.0002	<0.0002		
8/18/2023				<0.0002			
8/22/2023			<0.0002		<0.0002		
8/24/2023	<0.0002	<0.0002				<0.0002	
2/13/2024					<0.0002		
2/14/2024		<0.0002				<0.0002	<0.0002
2/15/2024	<0.0002		<0.0002	<0.0002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
5/17/2016		<0.015	0.00367 (J)	<0.015			
5/18/2016					<0.015	<0.015	<0.015
7/19/2016		<0.015	0.002 (J)	<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	
9/14/2016							0.016 (O)
11/9/2016		<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	
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
4/24/2017		<0.015		<0.015			
4/25/2017			0.0036 (J)		0.00098 (J)	<0.015	<0.015
8/8/2017		0.0017 (J)	<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
6/13/2018		<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				
10/3/2018					<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
4/1/2019		<0.015		<0.015			
4/2/2019			<0.015		<0.015	<0.015	<0.015
9/16/2019		<0.015					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
2/5/2020			<0.015				
3/16/2020		<0.015		<0.015			
3/17/2020			<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)
2/2/2021		<0.015	<0.015	<0.015	<0.015	<0.015	
2/3/2021							<0.015
3/10/2021			<0.015	<0.015	<0.015	<0.015	<0.015
3/11/2021		<0.015					
8/23/2021				<0.015			
8/24/2021		<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
3/3/2022			<0.015				
8/15/2022		<0.015		<0.015			<0.015
8/16/2022			<0.015		<0.015	<0.015	
2/14/2023		<0.015	<0.015	<0.015	<0.015		<0.015

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
2/15/2023						<0.015	
8/18/2023		<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
8/21/2023	0.0025 (J)						
2/13/2024		<0.015	<0.015	<0.015	<0.015	<0.015	
2/15/2024	0.0024 (J)						
2/16/2024							<0.015

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
5/18/2016	<0.015	<0.015	<0.015				
5/19/2016				<0.015	<0.015	0.00491 (J)	
7/19/2016	<0.015	<0.015					
7/20/2016			<0.015	<0.015	0.00095 (J)	0.0025 (J)	
9/13/2016	<0.015	<0.015					
9/14/2016			0.00091 (J)	<0.015	0.0009 (J)	0.0028 (J)	
11/9/2016	<0.015						
11/10/2016		<0.015				0.0016 (J)	
11/11/2016			<0.015	<0.015	<0.015		
1/18/2017	<0.015	0.001 (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	<0.015	0.0014 (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	<0.015					
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	<0.015					
8/9/2017						0.0028 (J)	
8/10/2017			0.00093 (J)	0.0011 (J)	0.0046 (J)		
3/28/2018	<0.015	<0.015					
3/29/2018				<0.015	<0.015	0.0028 (J)	<0.015
3/30/2018			<0.015				
6/13/2018	<0.015						
6/14/2018		<0.015	<0.015	<0.015	<0.015	0.0018 (J)	<0.015
10/2/2018	<0.015						
10/3/2018		<0.015					
10/4/2018			<0.015	<0.015	<0.015	<0.015	<0.015
2/26/2019	<0.015	<0.015					
2/27/2019			<0.015	<0.015	0.00063 (J)	0.0019 (J)	<0.015
4/2/2019	<0.015	<0.015					
4/3/2019				<0.015	<0.015	<0.015	<0.015
4/4/2019			<0.015				
9/16/2019	0.001 (J)						
9/18/2019		<0.015				0.0021 (J)	<0.015
9/19/2019			<0.015	<0.015	0.00073 (J)		
2/4/2020	<0.015						
2/5/2020		<0.015	<0.015	<0.015	<0.015	0.0012 (J)	<0.015
3/17/2020	<0.015	<0.015					
3/18/2020			<0.015	<0.015	<0.015		
3/19/2020						0.0018 (J)	<0.015
9/22/2020	<0.015	<0.015					
9/23/2020			<0.015		<0.015		
9/24/2020				0.0017 (J)		<0.015	<0.015
2/2/2021		<0.015					
2/3/2021	<0.015			<0.015	<0.015		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
2/4/2021			<0.015			0.0012 (J)	<0.015
3/10/2021		<0.015					
3/11/2021	<0.015		<0.015			0.0013 (J)	<0.015
3/12/2021				<0.015	0.00062 (J)		
8/24/2021	<0.015	<0.015					
8/25/2021				<0.015	<0.015	0.00092 (J)	<0.015
8/26/2021			<0.015				
3/1/2022	<0.015						
3/3/2022		<0.015	<0.015	<0.015		0.00094 (J)	<0.015
3/4/2022					<0.015		
8/15/2022	<0.015						
8/16/2022		<0.015		<0.015			
8/18/2022					<0.015	0.00087 (J)	
8/19/2022			<0.015				<0.015
2/14/2023	<0.015	<0.015					
2/16/2023			<0.015	<0.015	<0.015	0.0013 (J)	<0.015
8/18/2023	<0.015	<0.015					
8/21/2023			<0.015	<0.015	<0.015	0.0012 (J)	<0.015
2/13/2024	<0.015	0.0012 (J)					
2/14/2024					<0.015		
2/15/2024			<0.015			0.0012 (J)	<0.015
2/16/2024				<0.015			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	0.0153	<0.015	0.00526 (J)				
7/19/2016	0.0093 (J)	<0.015					
7/20/2016			0.0066 (J)				
9/14/2016	0.012 (J)	<0.015	0.0081 (J)				
11/10/2016	0.0065 (J)	<0.015	0.0076 (J)				
11/11/2016				<0.015			
1/20/2017			0.0094 (J)				
1/24/2017	0.0049 (J)	<0.015					
2/6/2017				0.001 (J)			
3/14/2017	0.0034 (J)		0.0044 (J)				
3/15/2017		<0.015		<0.015			
4/11/2017				<0.015			
4/25/2017	0.004 (J)	<0.015	0.0074 (J)				
4/26/2017				<0.015			
6/7/2017				0.0015 (J)			
7/11/2017				<0.015			
8/9/2017	0.0042 (J)	<0.015	0.0066 (J)				
8/10/2017				0.0016 (J)			
3/29/2018		<0.015		0.0012 (J)			
3/30/2018	0.0049 (J)		0.0024 (J)				
6/14/2018	0.0056 (J)	<0.015	0.0026 (J)	0.0014 (J)			
10/3/2018	0.0041 (J)						
10/4/2018		<0.015	0.00085 (J)	<0.015			
2/26/2019			0.0032 (J)				
2/27/2019	0.0061	<0.015					
2/28/2019				0.0013 (J)			
4/2/2019				<0.015			
4/4/2019	0.0039 (J)	<0.015	0.002 (J)				
9/18/2019	0.0052	<0.015	0.0026 (J)	0.0011 (J)			
2/7/2020	0.0024 (J)	<0.015	0.0025 (J)	0.0014 (J)			
3/18/2020	0.002 (J)	<0.015	0.0024 (J)				
5/4/2020				0.0013 (J)			
9/23/2020	0.0031 (J)	<0.015	0.0027 (J)	0.0013 (J)			
2/3/2021				0.0013 (J)			
2/4/2021	0.0022 (J)	<0.015	0.0025 (J)				
3/11/2021		<0.015	0.0022 (J)	0.0012 (J)			
3/12/2021	0.0019 (J)						
8/25/2021		<0.015	0.0022 (J)				
8/26/2021	0.0029 (J)			0.0011 (J)	0.00079 (J)	0.044	<0.015
1/11/2022						0.037	<0.015
1/12/2022					0.00062 (J)		
3/3/2022	0.0025 (J)	<0.015		0.0013 (J)		0.036	
3/4/2022			0.0021 (J)		<0.015		0.00084 (J)
6/6/2022						0.032	
6/7/2022					<0.015		<0.015
8/16/2022			0.0024 (J)			0.042	
8/17/2022	0.0025 (J)	<0.015		0.001 (J)			
8/18/2022					<0.015		
8/19/2022							<0.015
2/15/2023	0.0027 (J)	<0.015					<0.015
2/16/2023			0.0022 (J)	0.0014 (J)	<0.015	0.034	
8/15/2023					<0.015		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
8/18/2023		<0.015					
8/21/2023	0.003 (J)		0.0023 (J)	0.0013 (J)		0.029	<0.015
2/13/2024					<0.015		
2/14/2024							<0.015
2/15/2024	0.0021 (J)	<0.015	0.0023 (J)	0.0014 (J)		0.023	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9	WGWC-28D
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		<0.015	0.0028 (J)	
1/11/2022	<0.015	<0.015	<0.015				
3/3/2022		<0.015			<0.015	0.0027 (J)	
3/4/2022	<0.015		<0.015				
6/6/2022	<0.015	<0.015					
6/7/2022			<0.015				
8/16/2022					<0.015		
8/17/2022	<0.015		<0.015			0.0027 (J)	
8/18/2022		<0.015					
10/19/2022				<0.015			
2/15/2023	<0.015	<0.015	<0.015			0.0025 (J)	
2/16/2023				<0.015	<0.015		
8/15/2023				<0.015			
8/18/2023			<0.015		<0.015		
8/21/2023	<0.015	<0.015				0.0031 (J)	
2/13/2024					<0.015		
2/14/2024		<0.015				0.0033 (J)	0.0094 (J)
2/15/2024	<0.015		<0.015	<0.015			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (S.U.) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
5/17/2016		5.24	7.81	6.23			
5/18/2016					5.55	7.23	5.47
7/18/2016		5.434038					
7/19/2016				6.285413			5.336672
7/20/2016					5.656628	7.281557	
9/13/2016		5.22	7.18	6.3	5.63	7.15	
9/14/2016							7.29
11/9/2016		5.57	6.03	6.26			
11/10/2016					5.61	6.33	
1/17/2017		5.48		6.8			
1/18/2017					5.81	6.94	
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
8/8/2017		5.32	6.72	6.23	5.52		
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
3/27/2018		5.39		6.14			
3/28/2018			6.84		5.6	6.79	5.95
6/13/2018		5.33	6.31				5.13
6/14/2018				6.02	5.58	6.67	
9/24/2018				6.1			
9/27/2018		5.33					
9/28/2018			6.26				
10/3/2018					5.45	6.92	5.22
2/25/2019		5.25		6.02			
2/26/2019			7.66		5.6	6.74	5.21
4/1/2019		5.31		6.09			
4/2/2019			7.53		5.69	6.81	5.25
9/16/2019		5.28					6.94
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
2/5/2020			6.73				
3/16/2020		5.29		6.01			
3/17/2020			6.36		5.61	6.83	5.34
9/21/2020				6.05	5.35	6.81	
9/22/2020		5.09	7.18				6.78
2/2/2021		5.36	6.48	6.1	5.78	6.61	
2/3/2021							5.3
3/9/2021	6.19						
3/10/2021			5.8	6.11	5.49	7.19	5.22
3/11/2021		5.26					
4/7/2021	6.46						
8/23/2021				6.18			
8/24/2021		5.21				7.22	6.8
8/25/2021			6.74		5.52		

Time Series

Constituent: pH, Field (S.U.) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
2/28/2022						7.14	
3/1/2022		5.32		6.2	5.59		5.47
3/3/2022			5.94				
8/15/2022		5.28		6.04			6.54
8/16/2022			6.19		5.46	6.92	
2/14/2023		5.37	5.89	6.06	5.49		5.3
2/15/2023						7.21	
8/14/2023		5.09		6.06			
8/15/2023			6.01		5.34	6.47	6.6
8/17/2023	6.11						
2/13/2024		5.46	5.84	5.97	5.52	7.1	
2/15/2024	6.48						
2/16/2024							5.23

Time Series

Constituent: pH, Field (S.U.) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
5/18/2016	7.92	5.5	8.96				
5/19/2016				5.93	6.91	6.85	
7/18/2016				5.9661			
7/19/2016	7.154587	5.43					
7/20/2016			8.56774		6.962608	6.705264	
9/1/2016					6.96		
9/13/2016	7.96	5.57					
9/14/2016						6.7	
11/9/2016	7.27						
11/10/2016		6.93				6.5	
11/11/2016			6.96	6.03	6.76		
1/18/2017	7.72	7.16					
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					
3/15/2017			6.82	5.97	6.3	6.75	
3/17/2017							5.97
4/11/2017							6.18
4/25/2017	7.73	5.57					
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	7.74	5.6					
8/9/2017						6.55	
8/10/2017			6.66	6.05	6.7		
10/11/2017	7.71	5.43					6.97
10/12/2017			6.67	6.89	6.89	6.67	
3/28/2018	7.28	5.29					
3/29/2018				6.85	7.08	6.99	6.51
3/30/2018			6.98				
6/13/2018	7.78						
6/14/2018		5.39	6.56	5.89	6.73	6.39	5.76
10/2/2018	7.52						
10/3/2018		5.33					
10/4/2018			6.4	5.81	6.79	6.5	5.97
2/26/2019	7.87	5.62					
2/27/2019			6.23	5.78	6.7	6.47	5.73
4/2/2019	7.94	5.6					
4/3/2019				6.07	6.91	6.47	5.68
4/4/2019			6.46				
9/16/2019	7.55						
9/18/2019		5.6				6.46	5.5
9/19/2019			6.45	5.82	6.63		
2/4/2020	7.74						
2/5/2020		5.54	6.42	5.89	6.76	6.44	5.52
3/17/2020	7.96	5.32					
3/18/2020			6.4	5.89	6.94		
3/19/2020						6.56	5.49
9/22/2020	7.4	5.36					

Time Series

Constituent: pH, Field (S.U.) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
9/23/2020			6.14		6.42		
9/24/2020				5.5		6.29	5.16
2/2/2021		5.84					
2/3/2021	7.76			5.21	6.15		
2/4/2021			6.21			6.34	5.76
3/10/2021		4.96					
3/11/2021	7.93		6.56			5.95	5.1
3/12/2021				5.46	6.66		
8/24/2021	7.88	5.53					
8/25/2021				5.66	6.69	6.27	5.39
8/26/2021			6.31				
3/1/2022	7.86						
3/3/2022		5.49	6.36	5.59		6.31	5.4
3/4/2022					6.79		
8/15/2022	7.76						
8/16/2022		5.32		5.56			
8/18/2022					6.52	6.15	
8/19/2022			6.2				5.25
2/14/2023	7.78	5.44					
2/16/2023			6.39	5.69	6.61	6.27	5.4
8/15/2023	7.93	5.49					
8/16/2023				5.17	6.1	6.22	5.17
8/17/2023			6.49				
2/13/2024	7.75	6.19					
2/14/2024					6.67		
2/15/2024			6.41			6.3	5.18
2/16/2024				5.6			

Time Series

Constituent: pH, Field (S.U.) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	7.75	6.06	6.41				
7/18/2016		5.884339					
7/19/2016	7.876073						
7/20/2016			6.662463				
9/14/2016	7.79	5.89	6.7				
11/10/2016	7.76	5.6	6.51				
11/11/2016				6.93			
1/20/2017			6.55				
1/24/2017	7.71	5.54					
2/6/2017				6.8			
3/14/2017	7.57		6.27				
3/15/2017		5.39		6.78			
4/11/2017				6.79			
4/25/2017	7.47	5.28	6.26				
4/26/2017				6.82			
6/7/2017				6.76			
7/11/2017				6.99			
8/9/2017	7.37	5.46	6.47				
8/10/2017				6.59			
10/11/2017	7.42	5.45	6.47				
10/12/2017				6.7			
3/29/2018		5.33		6.88			
3/30/2018	7.48		6.71				
6/14/2018	7.5	5.35	6.15	6.72			
10/3/2018	7.11						
10/4/2018		5.28	6.14	6.67			
2/26/2019			6.17				
2/27/2019	7.4	5.08					
2/28/2019				6.98			
4/2/2019				6.75			
4/4/2019	7.58	5.19	6.16				
9/18/2019	7.8	5.19	6.17	6.71			
2/7/2020	7.66	5.17	6.34	7.08			
3/18/2020	7.73	5.08	6.28				
5/4/2020				6.9			
9/23/2020	7.35	5.05	5.89	6.59			
2/3/2021				6.75			
2/4/2021	7.77	5.42	6.31				
3/8/2021					5.54		
3/9/2021						7.29	5.56
3/11/2021		5.21	5.96	7.12			
3/12/2021	7.72						
4/7/2021						7.05	
4/8/2021					5.6		6.01
8/25/2021		5.25	6.09				
8/26/2021	7.58			6.66	5.37	6.88	5.4
1/11/2022						6.68	5.4
1/12/2022					5.19		
3/3/2022	7.61	5.22		6.69		6.88	
3/4/2022			6.21		5.23		5.34
6/6/2022						6.69	
6/7/2022					5.39		5.41

Time Series

Constituent: pH, Field (S.U.) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
8/16/2022			6.02			6.72	
8/17/2022	7.54	5.24		6.6			
8/18/2022					5.29		
8/19/2022							5.34
2/15/2023	7.72	5.19					5.47
2/16/2023			6.28	6.8	5.17	6.92	
8/11/2023					5.31		
8/15/2023		5.07					
8/16/2023	7.41		6.13	6.44			
8/17/2023						6.91	5.41
2/13/2024					5.34		
2/14/2024							5.84
2/15/2024	7.88	5.31	6.16	6.87		6.7	

Time Series

Constituent: pH, Field (S.U.) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9	WGWC-28D
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	5.81	4.29					
3/11/2021					5.35		
3/12/2021						5.88	
4/7/2021	5.57	4.43					
4/8/2021			5.39				
8/26/2021	5.8	4.33	5.3		5.36	5.84	
1/11/2022	5.61	4.39	5.26				
3/3/2022		4.39			5.21	5.86	
3/4/2022	5.74		5.21				
6/6/2022	5.73	4.52					
6/7/2022			5.32				
8/16/2022					5.4		
8/17/2022	5.64		5.28			5.8	
8/18/2022		4.42					
10/19/2022				5.93			
2/15/2023	5.49	4.54	5.36			5.86	
2/16/2023				5.91	5.22		
8/11/2023				6.07			
8/15/2023			5.97		5.43		
8/16/2023						5.78	
8/17/2023	5.66	4.37					
2/13/2024					5.31		
2/14/2024		4.72				6.13	6.47
2/15/2024	5.62		6.24	6.23			

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
5/17/2016		<0.005	<0.005	<0.005			
5/18/2016					<0.005	<0.005	<0.005
7/19/2016		<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	
9/14/2016							<0.005
11/9/2016		<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	
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
4/24/2017		<0.005		<0.005			
4/25/2017			0.0018		0.00035 (J)	<0.005	<0.005
8/8/2017		0.0013	<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
6/13/2018		<0.005	<0.005				0.00025 (J)
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				
10/3/2018					<0.005	<0.005	<0.005
2/25/2019		<0.005		<0.005			
2/26/2019			<0.005		<0.005	<0.005	<0.005
4/1/2019		<0.005		<0.005			
4/2/2019			<0.005		<0.005	<0.005	<0.005
9/16/2019		<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
2/5/2020			<0.005				
3/16/2020		<0.005		0.0026 (J)			
3/17/2020			<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
2/2/2021		<0.005	<0.005	<0.005	<0.005	<0.005	
2/3/2021							<0.005
3/10/2021			<0.005	<0.005	<0.005	<0.005	<0.005
3/11/2021		<0.005					
8/23/2021				<0.005			
8/24/2021		<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
3/3/2022			<0.005				
8/15/2022		<0.005		<0.005			<0.005
8/16/2022			<0.005		<0.005	<0.005	
2/14/2023		<0.005	<0.005	<0.005	<0.005		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
2/15/2023						<0.005	
8/18/2023		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/21/2023	<0.005						
2/13/2024		<0.005	<0.005	<0.005	<0.005	<0.005	
2/15/2024	<0.005						
2/16/2024							<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
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	<0.005					
9/14/2016			<0.005	<0.005	<0.005	<0.005	
11/9/2016	<0.005						
11/10/2016		<0.005				<0.005	
11/11/2016			<0.005	<0.005	<0.005		
1/18/2017	<0.005	<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	<0.005					
8/9/2017						<0.005	
8/10/2017			0.00031 (J)	0.00049 (J)	0.0021		
3/28/2018	<0.005	<0.005					
3/29/2018				<0.005	<0.005	<0.005	0.0003 (J)
3/30/2018			<0.005				
6/13/2018	<0.005						
6/14/2018		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
10/2/2018	<0.005						
10/3/2018		<0.005					
10/4/2018			<0.005	<0.005	<0.005	<0.005	<0.005
2/26/2019	<0.005	<0.005					
2/27/2019			<0.005	<0.005	<0.005	<0.005	<0.005
4/2/2019	<0.005	<0.005					
4/3/2019				<0.005	<0.005	<0.005	<0.005
4/4/2019			<0.005				
9/16/2019	<0.005						
9/18/2019		<0.005				<0.005	<0.005
9/19/2019			<0.005	<0.005	<0.005		
2/4/2020	<0.005						
2/5/2020		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
3/17/2020	<0.005	<0.005					
3/18/2020			<0.005	<0.005	<0.005		
3/19/2020						<0.005	<0.005
9/22/2020	<0.005	<0.005					
9/23/2020			<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	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
2/4/2021			<0.005			<0.005	<0.005
3/10/2021		<0.005					
3/11/2021	<0.005		<0.005			<0.005	<0.005
3/12/2021				<0.005	<0.005		
8/24/2021	<0.005	<0.005					
8/25/2021				<0.005	<0.005	<0.005	<0.005
8/26/2021			<0.005				
3/1/2022	<0.005						
3/3/2022		<0.005	<0.005	<0.005		<0.005	<0.005
3/4/2022					<0.005		
8/15/2022	<0.005						
8/16/2022		<0.005		<0.005			
8/18/2022					<0.005	<0.005	
8/19/2022			<0.005				<0.005
2/14/2023	<0.005	<0.005					
2/16/2023			<0.005	<0.005	<0.005	<0.005	<0.005
8/18/2023	<0.005	<0.005					
8/21/2023			<0.005	<0.005	<0.005	<0.005	<0.005
2/13/2024	<0.005	<0.005					
2/14/2024					<0.005		
2/15/2024			<0.005			<0.005	<0.005
2/16/2024				<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	<0.005	0.00735	<0.005				
7/19/2016	<0.005	0.0075					
7/20/2016			<0.005				
9/14/2016	<0.005	0.0091	<0.005				
11/10/2016	<0.005	0.0056	<0.005				
11/11/2016				<0.005			
1/20/2017			<0.005				
1/24/2017	<0.005	0.012					
2/6/2017				<0.005			
3/14/2017	<0.005		<0.005				
3/15/2017		0.012		<0.005			
4/11/2017				<0.005			
4/25/2017	<0.005	0.013	<0.005				
4/26/2017				<0.005			
6/7/2017				<0.005			
7/11/2017				<0.005			
8/9/2017	<0.005	0.016	<0.005				
8/10/2017				0.00036 (J)			
3/29/2018		0.016		<0.005			
3/30/2018	<0.005		<0.005				
6/14/2018	0.0005 (J)	0.012	<0.005	<0.005			
10/3/2018	<0.005						
10/4/2018		0.013	<0.005	<0.005			
2/26/2019			<0.005				
2/27/2019	<0.005	0.0081					
2/28/2019				<0.005			
4/2/2019				<0.005			
4/4/2019	<0.005	0.0091	<0.005				
9/18/2019	<0.005	0.0044 (J)	<0.005	<0.005			
2/7/2020	<0.005	0.0036 (J)	<0.005	<0.005			
3/18/2020	<0.005	0.0046 (J)	<0.005				
5/4/2020				<0.005			
9/23/2020	<0.005	0.0028 (J)	<0.005	<0.005			
2/3/2021				<0.005			
2/4/2021	<0.005	0.0023 (J)	<0.005				
3/11/2021		0.0023 (J)	<0.005	<0.005			
3/12/2021	<0.005						
8/25/2021		0.0019 (J)	<0.005				
8/26/2021	<0.005			<0.005	0.0016 (J)	<0.005	0.0049 (J)
1/11/2022						<0.005	0.0065
1/12/2022					<0.005		
3/3/2022	<0.005	0.0018 (J)		<0.005		<0.005	
3/4/2022			<0.005		0.0014 (J)		0.0072
6/6/2022						<0.005	
6/7/2022					0.0014 (J)		0.0047 (J)
8/16/2022			<0.005			<0.005	
8/17/2022	<0.005	<0.005		<0.005			
8/18/2022					0.0027 (J)		
8/19/2022							0.0035 (J)
2/15/2023	<0.005	0.0019 (J)					0.0077
2/16/2023			<0.005	<0.005	0.0017 (J)	<0.005	
8/15/2023					0.0016 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
8/18/2023		0.0018 (J)					
8/21/2023	<0.005		<0.005	<0.005		<0.005	0.0038 (J)
2/13/2024					0.0035 (J)		
2/14/2024							0.0041 (J)
2/15/2024	<0.005	<0.005	<0.005	<0.005		<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9	WGWC-28D
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	0.002 (J)	<0.005	<0.005		0.0037 (J)	0.0028 (J)	
1/11/2022	0.0024 (J)	<0.005	<0.005				
3/3/2022		0.00077 (J)			0.0038 (J)	0.0021 (J)	
3/4/2022	0.002 (J)		<0.005				
6/6/2022	0.0018 (J)	<0.005					
6/7/2022			<0.005				
8/16/2022					0.0075		
8/17/2022	0.0013 (J)		<0.005			0.0022 (J)	
8/18/2022		<0.005					
10/19/2022				<0.005			
2/15/2023	0.0026 (J)	<0.005	<0.005			0.0037 (J)	
2/16/2023				<0.005	0.0033 (J)		
8/15/2023				<0.005			
8/18/2023			<0.005		0.0037 (J)		
8/21/2023	0.0024 (J)	<0.005				0.0036 (J)	
2/13/2024					0.007		
2/14/2024		<0.005				0.0022 (J)	<0.005
2/15/2024	0.003 (J)		<0.005	<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
5/17/2016		<1	19.9	1.14			
5/18/2016					0.821 (J)	5.32	0.955 (J)
7/19/2016		<1	14	1.4			0.76 (J)
7/20/2016					0.82 (J)	6.5	
9/13/2016		<1	11	1.1	0.81 (J)	5.6	
9/14/2016							3.4
11/9/2016		<1	6.3	1.1			
11/10/2016					0.73 (J)	5.4	
1/17/2017		<1		2.1			
1/18/2017					0.99 (J)	5.1	
1/19/2017			7.4				21
3/13/2017		<1		0.97 (J)			
3/14/2017			10		0.83 (J)	4.6	1.4
4/24/2017		<1		0.75 (J)			
4/25/2017			10		0.7 (J)	6.6	0.89 (J)
8/8/2017		<1	12	1.1	0.82 (J)		
8/9/2017						7.3	0.75 (J)
10/10/2017		<1		1.3			
10/11/2017			11		0.72 (J)	6.8	<1
6/13/2018		<1	8.2				<1
6/14/2018				0.84 (J)	<1	6.9	
9/24/2018				0.79 (J)			
9/27/2018		<1					
9/28/2018			7.6				
10/3/2018					0.73 (J)	7	<1
4/1/2019		<1		1			
4/2/2019			11		1.1	8.1	0.94 (J)
9/16/2019		0.49 (J)					2.2
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
9/21/2020				1.1	0.77 (J)	7.7	
9/22/2020		<1	9				1.5
3/9/2021	46						
3/10/2021			7.1	0.9 (J)	0.91 (J)	8.1	<1
3/11/2021		<1					
4/7/2021	48						
8/23/2021				1.3			
8/24/2021		<1				7.9	2.8
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)
3/3/2022			8.5				
8/15/2022		<1		0.54 (J)			1.6
8/16/2022			7.2		0.52 (J)	6.9	
2/14/2023		<1	7.3	0.66 (J)	0.65 (J)		0.66 (J)
2/15/2023						7.8	
8/22/2023		<1	6.8	0.74 (J)	0.71 (J)	7.4	1.2
8/23/2023	31						
2/13/2024		<1	5.1	0.64 (J)	0.68 (J)	6.2	
2/15/2024	36						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
2/16/2024							1.5

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
5/18/2016	8.88	0.368 (J)	2.84				
5/19/2016				1.83	15.8	19.2	
7/19/2016	9	<1					
7/20/2016			2.8	1.6	16	11	
9/13/2016	8.5	<1					
9/14/2016			2.8	1.5	16	8.6	
11/9/2016	8.2						
11/10/2016		<1				5.7	
11/11/2016			2.6	1.4	14		
1/18/2017	9.4	1.4					
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	2	<1					
3/15/2017			2.7	2.5	17	11	
3/17/2017							22
4/11/2017							13
4/25/2017	8.2	<1					
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	8.5	<1					
8/9/2017						8.1	
8/10/2017			2.2	2.3	16		
10/11/2017	8.3	<1					3.4
10/12/2017			1.9	1.9	14	6.1	
6/13/2018	8.3						
6/14/2018		<1	2	1.7	14	5	5.8
10/2/2018	8.3						
10/3/2018		<1					
10/4/2018			1.9	1.6	14	4.3	2.8
4/2/2019	8.5	0.4 (J)					
4/3/2019				1.9	13	3.8	3.8
4/4/2019			2.2				
9/16/2019	8.9						
9/18/2019		<1				3.9	1.7
9/19/2019			2.1	1.3	14		
3/17/2020	12	0.86 (J)					
3/18/2020			2.1	1.6	12		
3/19/2020						4	1.5
9/22/2020	8	0.38 (J)					
9/23/2020			1.8		12		
9/24/2020				2.7		0.63 (J)	1.2
3/10/2021		<1					
3/11/2021	8.4		2.8			2.9	1.7
3/12/2021				2	14		
8/24/2021	8.9	<1					
8/25/2021				1.1	13	1.8	<1
8/26/2021			1.8				
3/1/2022	9.2						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
3/3/2022		<1	2	2.3		3	1.3
3/4/2022					14		
8/15/2022	7.5						
8/16/2022		<1		0.98 (J)			
8/18/2022					11	1.7	
8/19/2022			1.6				<1
2/14/2023	7.9	<1					
2/16/2023			1.8	1	2.8	2.3	0.47 (J)
8/22/2023	7.3	0.45 (J)					
8/23/2023			1.7	1	12	2.1	0.52 (J)
2/13/2024	6.7	0.56 (J)					
2/14/2024					8.8		
2/15/2024			3.2			4.3	1.2
2/16/2024				2.1			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	50.7	388	32.1				
7/19/2016	62	460					
7/20/2016			9.7				
9/14/2016	79	500	6.6				
11/10/2016	61	530	5.2				
11/11/2016				3.4			
1/20/2017			5.3				
1/24/2017	34	600					
2/6/2017				3.7			
3/14/2017	43		9.6				
3/15/2017		610		3.6			
4/11/2017				3.2			
4/25/2017	39	620	20				
4/26/2017				3.3			
6/7/2017				3.8			
7/11/2017				3.3			
8/9/2017	35	780	6.5				
8/10/2017				3.7			
10/11/2017	48	720	13				
10/12/2017				3.6			
6/14/2018	44	620	16	3.5			
10/3/2018	49						
10/4/2018		560	15	4.6			
4/2/2019				3.8			
4/4/2019	41	250	9.1				
9/18/2019	37	130	7.3	3.6			
3/18/2020	17	120	4.2				
5/4/2020				4.5			
9/23/2020	21	85	4.4	3			
3/8/2021					240		
3/9/2021						230	80
3/11/2021		64	3.9	4			
3/12/2021	19						
4/7/2021						190	
4/8/2021					240		60
8/25/2021		63	3.3				
8/26/2021	16			3.5	290	190	100
1/11/2022						260	140
1/12/2022					360		
3/3/2022	18	57		4.8		250	
3/4/2022			3.6		390		150
6/6/2022						140	
6/7/2022					280		96
8/16/2022			3.4			240	
8/17/2022	14	49		2.8			
8/18/2022					280		
8/19/2022							87
2/15/2023	14	54					110
2/16/2023			2.6	3	350	340	
8/17/2023					330		
8/22/2023		52					
8/23/2023	13		2.6	2.6		310	71

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
2/13/2024					280		
2/14/2024							64
2/15/2024	16	50	5.4	5.7		420	

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9	WGWC-28D
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	14	140					
3/11/2021					220		
3/12/2021						62	
4/7/2021	5.1	160					
4/8/2021			5.8				
8/26/2021	7.5	170	13		220	52	
1/11/2022	5.3	160	21				
3/3/2022		130			250	58	
3/4/2022	5		21				
6/6/2022	5.3	67					
6/7/2022			22				
8/16/2022					220		
8/17/2022	5.5		25			50	
8/18/2022		49					
10/19/2022				12			
2/15/2023	5.2	120	27			65	
2/16/2023				29	250		
8/17/2023				31			
8/22/2023			19		240	50	
8/23/2023	4.9	50					
2/13/2024					190		
2/14/2024		55				37	300
2/15/2024	8.7		21	37			

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
5/17/2016		<0.001	<0.001	<0.001			
5/18/2016					<0.001	<0.001	<0.001
7/19/2016		<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	
9/14/2016							9E-05 (J)
11/9/2016		<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	
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
4/24/2017		<0.001		<0.001			
4/25/2017			<0.001		<0.001	<0.001	<0.001
8/8/2017		<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
6/13/2018		<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				
10/3/2018					<0.001	<0.001	<0.001
2/25/2019		<0.001		<0.001			
2/26/2019			<0.001		<0.001	<0.001	<0.001
4/1/2019		<0.001		<0.001			
4/2/2019			<0.001		<0.001	<0.001	<0.001
9/16/2019		0.00016 (J)					<0.001
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
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
9/21/2020				<0.001	<0.001	<0.001	
9/22/2020		<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)
3/10/2021			<0.001	0.00073 (J)	0.00028 (J)	0.00017 (J)	<0.001
3/11/2021		0.00045 (J)					
8/23/2021				<0.001			
8/24/2021		<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
3/3/2022			<0.001				
8/15/2022		<0.001		<0.001			<0.001
8/16/2022			<0.001		<0.001	<0.001	
2/14/2023		<0.001	<0.001	<0.001	<0.001		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
2/15/2023						<0.001	
8/18/2023		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/21/2023	<0.001						
2/13/2024		<0.001	<0.001	<0.001	<0.001	<0.001	
2/15/2024	<0.001						
2/16/2024							<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
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	<0.001					
9/14/2016			<0.001	<0.001	<0.001	<0.001	
11/9/2016	<0.001						
11/10/2016		<0.001				<0.001	
11/11/2016			<0.001	<0.001	<0.001		
1/18/2017	<0.001	<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	<0.001					
8/9/2017						<0.001	
8/10/2017			<0.001	<0.001	<0.001		
3/28/2018	<0.001	<0.001					
3/29/2018				<0.001	<0.001	<0.001	0.0002 (J)
3/30/2018			8.5E-05 (J)				
6/13/2018	<0.001						
6/14/2018		<0.001	<0.001	<0.001	<0.001	<0.001	0.00014 (J)
10/2/2018	<0.001						
10/3/2018		<0.001					
10/4/2018			<0.001	<0.001	<0.001	<0.001	0.00013 (J)
2/26/2019	<0.001	<0.001					
2/27/2019			<0.001	<0.001	<0.001	<0.001	0.00016 (J)
4/2/2019	<0.001	<0.001					
4/3/2019				<0.001	<0.001	<0.001	0.00012 (J)
4/4/2019			<0.001				
9/16/2019	0.00062 (J)						
9/18/2019		<0.001				<0.001	<0.001
9/19/2019			<0.001	<0.001	<0.001		
2/4/2020	<0.001						
2/5/2020		0.00026 (J)	<0.001	<0.001	<0.001	<0.001	0.00022 (J)
3/17/2020	<0.001	<0.001					
3/18/2020			<0.001	<0.001	<0.001		
3/19/2020						<0.001	0.00017 (J)
9/22/2020	<0.001	<0.001					
9/23/2020			<0.001		<0.001		
9/24/2020				<0.001		<0.001	<0.001
2/2/2021		<0.001					
2/3/2021	<0.001			0.00016 (J)	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
2/4/2021			<0.001			<0.001	0.00021 (J)
3/10/2021		<0.001					
3/11/2021	<0.001		<0.001			<0.001	0.00019 (J)
3/12/2021				<0.001	<0.001		
8/24/2021	<0.001	<0.001					
8/25/2021				<0.001	<0.001	<0.001	<0.001
8/26/2021			<0.001				
3/1/2022	<0.001						
3/3/2022		<0.001	<0.001	<0.001		<0.001	<0.001
3/4/2022					<0.001		
8/15/2022	<0.001						
8/16/2022		<0.001		<0.001			
8/18/2022					<0.001	<0.001	
8/19/2022			<0.001				<0.001
2/14/2023	<0.001	<0.001					
2/16/2023			<0.001	<0.001	<0.001	<0.001	<0.001
8/18/2023	<0.001	<0.001					
8/21/2023			<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2024	<0.001	<0.001					
2/14/2024					<0.001		
2/15/2024			<0.001			<0.001	<0.001
2/16/2024				<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	<0.001	<0.001	<0.001				
7/19/2016	<0.001	8.5E-05 (J)					
7/20/2016			<0.001				
9/14/2016	<0.001	0.00017 (J)	<0.001				
11/10/2016	<0.001	0.00017 (J)	<0.001				
11/11/2016				<0.001			
1/20/2017			<0.001				
1/24/2017	<0.001	0.00023 (J)					
2/6/2017				<0.001			
3/14/2017	<0.001		<0.001				
3/15/2017		0.00021 (J)		<0.001			
4/11/2017				<0.001			
4/25/2017	<0.001	0.00024 (J)	<0.001				
4/26/2017				<0.001			
6/7/2017				<0.001			
7/11/2017				<0.001			
8/9/2017	<0.001	0.0002 (J)	<0.001				
8/10/2017				<0.001			
3/29/2018		0.00019 (J)		<0.001			
3/30/2018	<0.001		<0.001				
6/14/2018	<0.001	0.00017 (J)	<0.001	<0.001			
10/3/2018	<0.001						
10/4/2018		0.00015 (J)	<0.001	<0.001			
2/26/2019			<0.001				
2/27/2019	<0.001	0.00015 (J)					
2/28/2019				<0.001			
4/2/2019				<0.001			
4/4/2019	<0.001	9.5E-05 (J)	<0.001				
9/18/2019	<0.001	<0.001	<0.001	<0.001			
2/7/2020	<0.001	<0.001	<0.001	<0.001			
3/18/2020	<0.001	<0.001	<0.001				
5/4/2020				<0.001			
9/23/2020	<0.001	<0.001	<0.001	<0.001			
2/3/2021				0.00018 (J)			
2/4/2021	<0.001	<0.001	<0.001				
3/11/2021		<0.001	<0.001	<0.001			
3/12/2021	<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
1/12/2022					<0.001		
3/3/2022	<0.001	<0.001		<0.001		<0.001	
3/4/2022			<0.001		<0.001		0.00047 (J)
6/6/2022						<0.001	
6/7/2022					<0.001		<0.001
8/16/2022			<0.001			<0.001	
8/17/2022	<0.001	<0.001		<0.001			
8/18/2022					<0.001		
8/19/2022							<0.001
2/15/2023	<0.001	<0.001					<0.001
2/16/2023			<0.001	<0.001	<0.001	<0.001	
8/15/2023					<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
8/18/2023		<0.001					
8/21/2023	<0.001		<0.001	<0.001		<0.001	<0.001
2/13/2024					<0.001		
2/14/2024							<0.001
2/15/2024	<0.001	<0.001	<0.001	<0.001		<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9	WGWC-28D
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	<0.001	0.00072 (J)	<0.001		<0.001	<0.001	
1/11/2022	<0.001	0.00062 (J)	<0.001				
3/3/2022		0.0006 (J)			<0.001	<0.001	
3/4/2022	<0.001		<0.001				
6/6/2022	<0.001	0.00052 (J)					
6/7/2022			<0.001				
8/16/2022					<0.001		
8/17/2022	<0.001		<0.001			<0.001	
8/18/2022		0.0003 (J)					
10/19/2022				<0.001			
2/15/2023	<0.001	0.00045 (J)	<0.001			<0.001	
2/16/2023				<0.001	<0.001		
8/15/2023				<0.001			
8/18/2023			<0.001		<0.001		
8/21/2023	<0.001	0.00028 (J)				<0.001	
2/13/2024					<0.001		
2/14/2024		0.00033 (J)				<0.001	<0.001
2/15/2024	<0.001		<0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
5/17/2016		<10	112	100			
5/18/2016					29	101	33
7/19/2016		14	80	84			<5
7/20/2016					<5	86	
9/13/2016		50	120	70	12	28	
9/14/2016							150
11/9/2016		22	76	110			
11/10/2016					30	110	
1/17/2017		8		120			
1/18/2017					22	98	
1/19/2017			36				34
3/13/2017		<10		58			
3/14/2017			70		22	110	32
4/24/2017		10		94			
4/25/2017			70		22	86	22
8/8/2017		<10	72	62	4 (J)		
8/9/2017						92	20
10/10/2017		44		140			
10/11/2017			90		10	110	4 (J)
6/13/2018		24	38				<5
6/14/2018				80	26	92	
9/24/2018				76			
9/27/2018		28					
9/28/2018			68				
10/3/2018					50	100	24
4/1/2019		<10		63			
4/2/2019			100		28	100	25
9/16/2019		27					41
9/17/2019			76	120		120	
9/18/2019					36		
3/16/2020		23		90			
3/17/2020			81		20	100	18
9/21/2020				100	22	92	
9/22/2020		24	96				190
3/9/2021	180						
3/10/2021			72	100	20	100	19
3/11/2021		24					
4/7/2021	410						
8/23/2021				110			
8/24/2021		32				110	150
8/25/2021			92		21		
2/28/2022						95	
3/1/2022		30		92	31		23
3/3/2022			43				
8/15/2022		45		100			140
8/16/2022			60		30	110	
2/14/2023		34	42	100	27		24
2/15/2023						100	
8/18/2023		37		110			
8/19/2023			56		34	110	82
8/24/2023	150						
2/13/2024		36	43	140	34	110	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	PZ-26D	WGWA-1 (bg)	WGWA-18 (bg)	WGWA-2 (bg)	WGWA-3 (bg)	WGWA-4 (bg)	WGWA-5 (bg)
2/15/2024	160						
2/16/2024							34

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
5/18/2016	113	31	70				
5/19/2016				39	101	127	
7/19/2016	92	<5					
7/20/2016			42	<10	76	88	
9/13/2016	100	<5					
9/14/2016			40	24	96	92	
11/9/2016	130						
11/10/2016		44				100	
11/11/2016			72	42	100		
1/18/2017	120	50					
1/27/2017				18	50	80	
2/6/2017			24				
2/8/2017							54
2/23/2017							78
3/14/2017	110	26					
3/15/2017			78	54	120	100	
3/17/2017							56
4/11/2017							76
4/25/2017	100	10					
4/26/2017			48	42	100	92	76
5/17/2017							68
6/7/2017							72
7/11/2017							68
8/8/2017	90	<5					
8/9/2017						120	
8/10/2017			38	30	96		
10/11/2017	98	42					68
10/12/2017			72	54	100	110	
6/13/2018	110						
6/14/2018		14	40	16	94	88	52
10/2/2018	130						
10/3/2018		6					
10/4/2018			60	56	110	100	130
4/2/2019	110	15					
4/3/2019				<10	66	72	31
4/4/2019			30				
9/16/2019	110						
9/18/2019		35				110	33
9/19/2019			52	27	89		
3/17/2020	120	19					
3/18/2020			58	26	73		
3/19/2020						95	18
9/22/2020	130	15					
9/23/2020			50		90		
9/24/2020				60		21	24
3/10/2021		20					
3/11/2021	110		52			63	24
3/12/2021				27	78		
8/24/2021	120	24					
8/25/2021				32	110	53	30
8/26/2021			60				
3/1/2022	140						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-6 (bg)	WGWA-7 (bg)	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A
3/3/2022		17	45	21		71	17
3/4/2022					89		
8/15/2022	120						
8/16/2022		22		33			
8/18/2022					88	89	
8/19/2022			63				26
2/14/2023	120	24					
2/16/2023			54	33	89	81	27
8/19/2023	130	29					
8/22/2023			56			84	
8/24/2023				33	92		29
2/13/2024	120	51					
2/14/2024					85		
2/15/2024			53			84	31
2/16/2024				31			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	190	1080	107				
7/19/2016	180	1200					
7/20/2016			78				
9/14/2016	230	1300	82				
11/10/2016	210	1400	98				
11/11/2016				98			
1/20/2017			82				
1/24/2017	140	1300					
2/6/2017				36			
3/14/2017	220		120				
3/15/2017		1500		120			
4/11/2017				68			
4/25/2017	180	1700	120				
4/26/2017				76			
6/7/2017				74			
7/11/2017				70			
8/9/2017	180	1900	92				
8/10/2017				66			
10/11/2017	200	1900	74				
10/12/2017				100			
6/14/2018	170	1500	100	74			
10/3/2018	260						
10/4/2018		1700	98	100			
4/2/2019				88			
4/4/2019	170	710	89				
9/18/2019	160	520	79	96			
3/18/2020	160	370	98				
5/4/2020				110			
9/23/2020	150	250	60	94			
3/8/2021					590		
3/9/2021						610	200
3/11/2021		190	75	100			
3/12/2021	130						
4/7/2021						520	
4/8/2021					540		170
8/25/2021		220	84				
8/26/2021	150			94	720	480	240
1/11/2022						580	270
1/12/2022					1200		
3/3/2022	140	170		98		580	
3/4/2022			55		1100		260
6/6/2022						670	
6/7/2022					920		210
8/16/2022			81			530	
8/17/2022	140	170		93			
8/18/2022					760		
8/19/2022							190
2/15/2023	130	160					210
2/16/2023			77	100	960	630	
8/16/2023					910		
8/19/2023		160					
8/22/2023	150		81			690	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-15	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
8/24/2023				100			180
2/13/2024					1200		
2/14/2024							210
2/15/2024	130	150	79	100		740	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 4/11/2024 4:58 PM View: Descriptive

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9	WGWC-28D
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	79	370					
3/11/2021					530		
3/12/2021						130	
4/7/2021	66	510					
4/8/2021			180				
8/26/2021	88	420	200		550	170	
1/11/2022	67	320	220				
3/3/2022		280			530	140	
3/4/2022	69		200				
6/6/2022	90	210					
6/7/2022			240				
8/16/2022					580		
8/17/2022	85		210			150	
8/18/2022		140					
10/19/2022				92			
2/15/2023	71	230	200			160	
2/16/2023				160	590		
8/18/2023				180			
8/19/2023			180		680		
8/22/2023						110	
8/24/2023	73	150					
2/13/2024					620		
2/14/2024		180				150	1700
2/15/2024	76		130	170			

FIGURE B.

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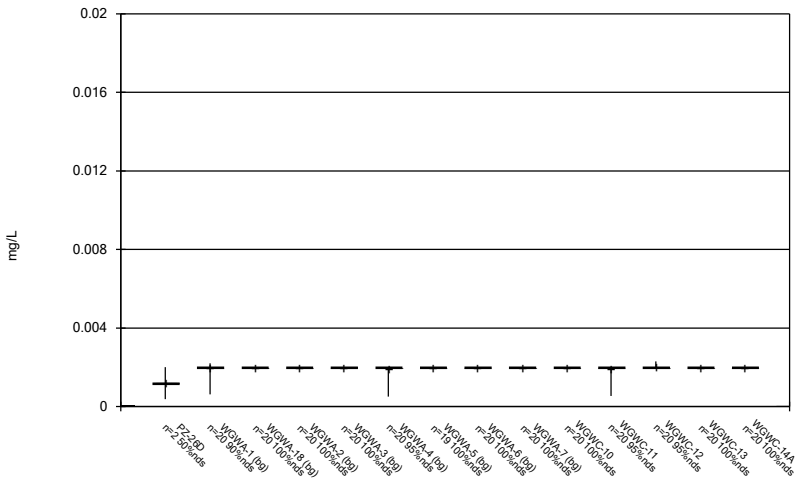
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/11/2024 5:00 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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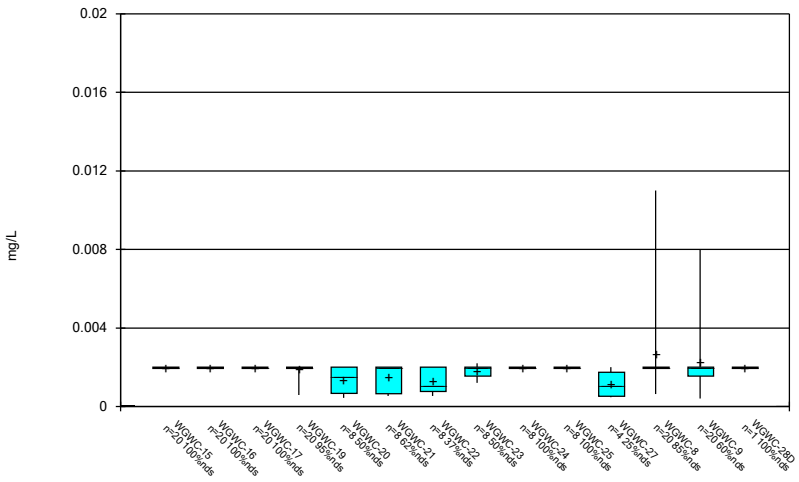
Box & Whiskers Plot



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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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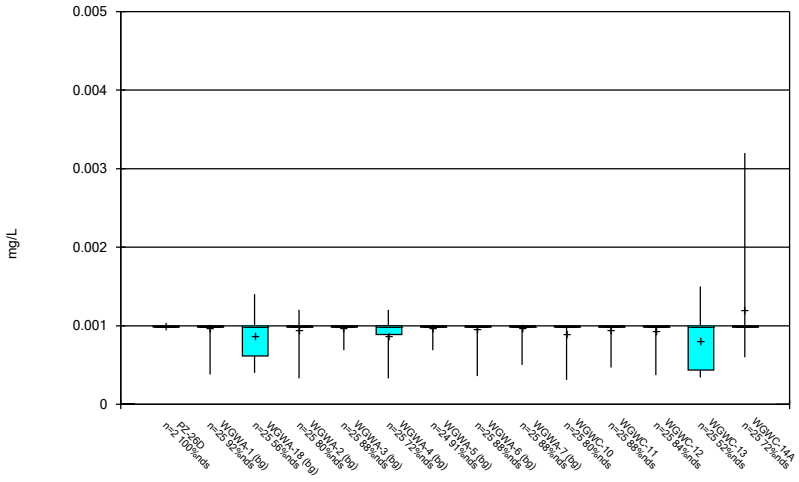
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/11/2024 5:00 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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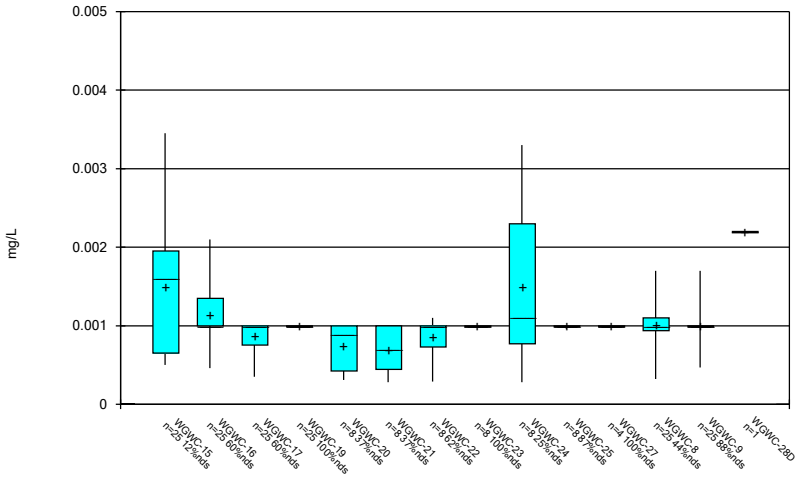
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/11/2024 5:00 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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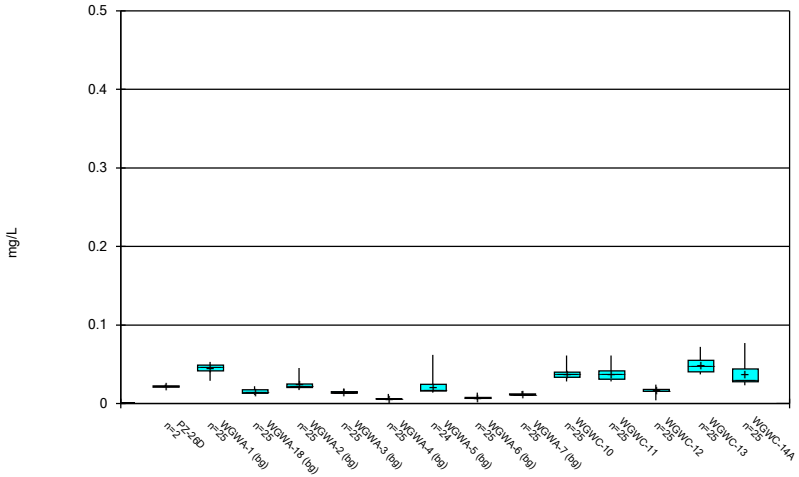
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/11/2024 5:00 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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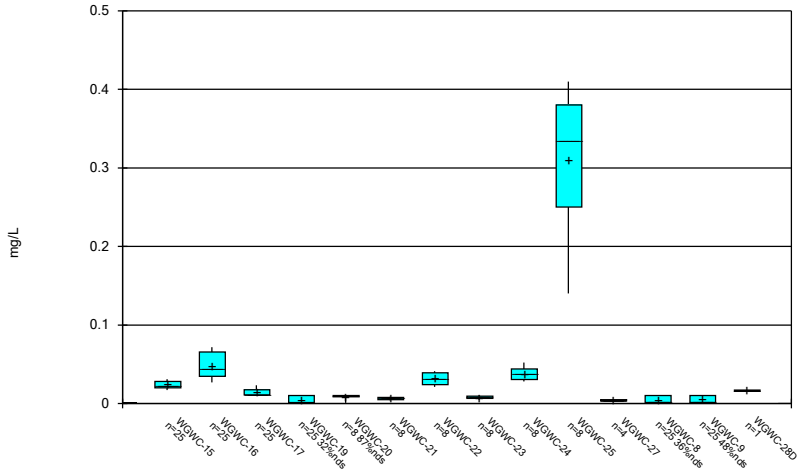
Box & Whiskers Plot



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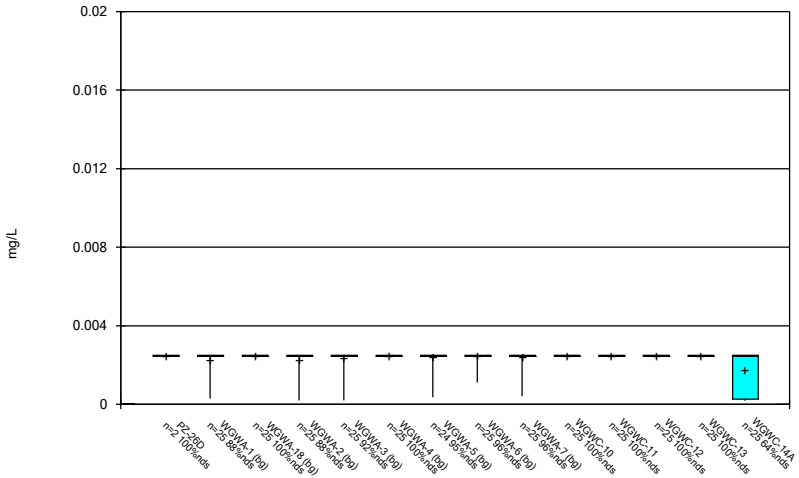
Box & Whiskers Plot



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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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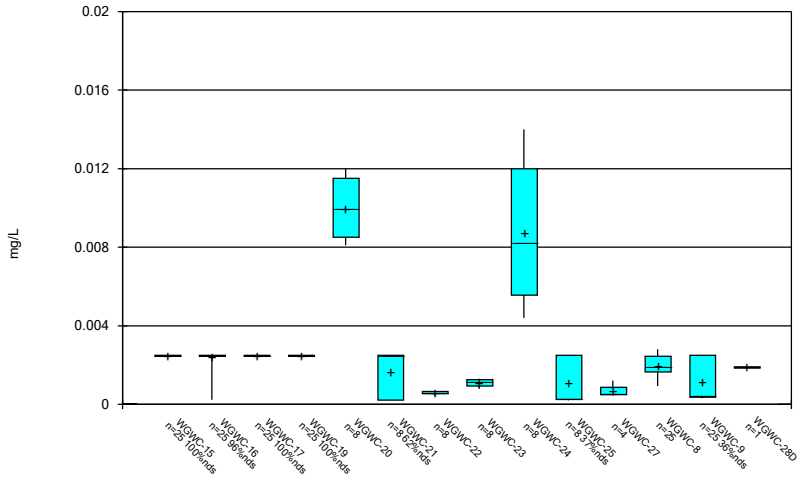
Box & Whiskers Plot



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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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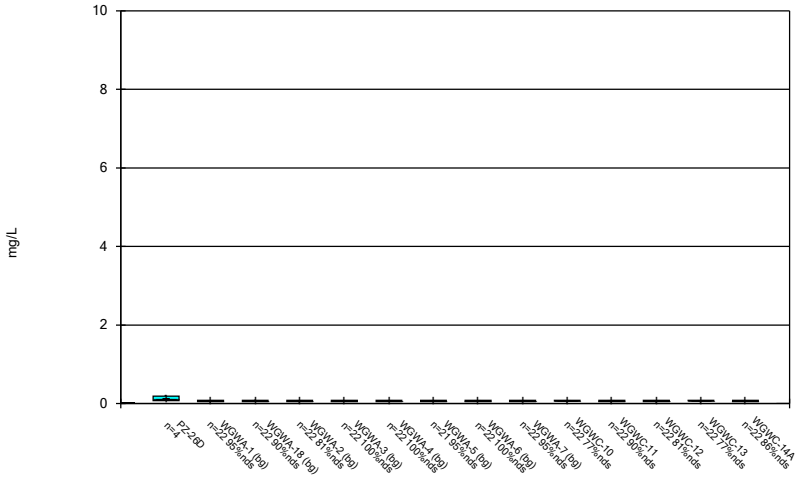
Box & Whiskers Plot



Constituent: Boron, total Analysis Run 4/11/2024 5:00 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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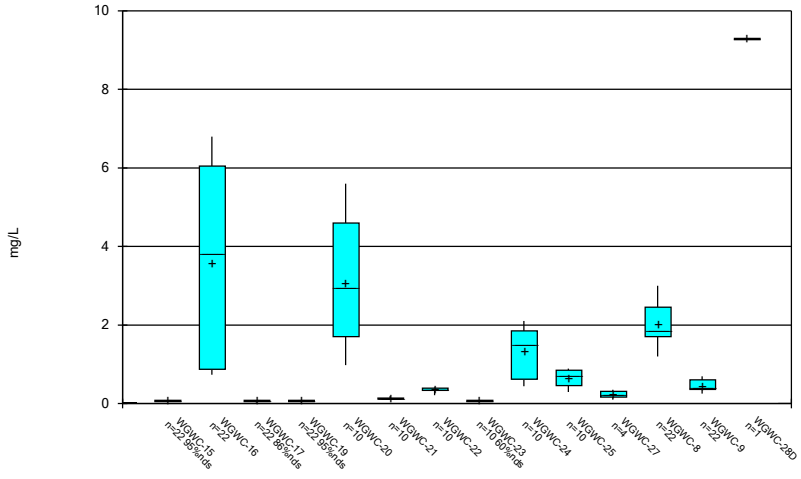
Box & Whiskers Plot



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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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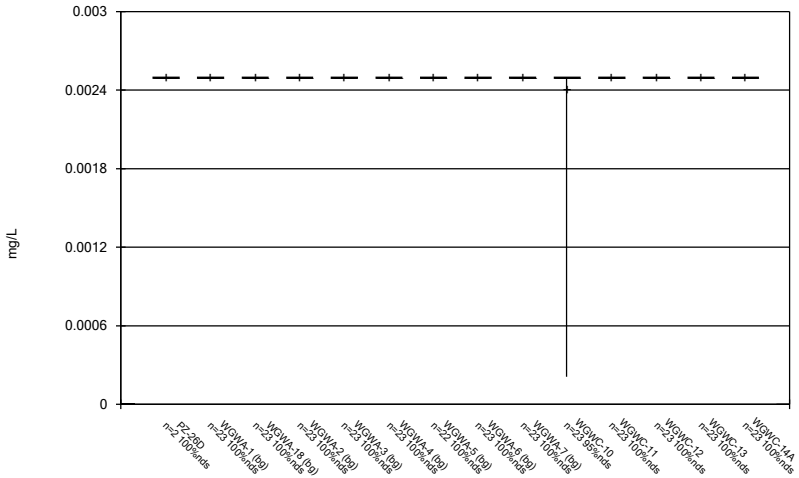
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/11/2024 5:00 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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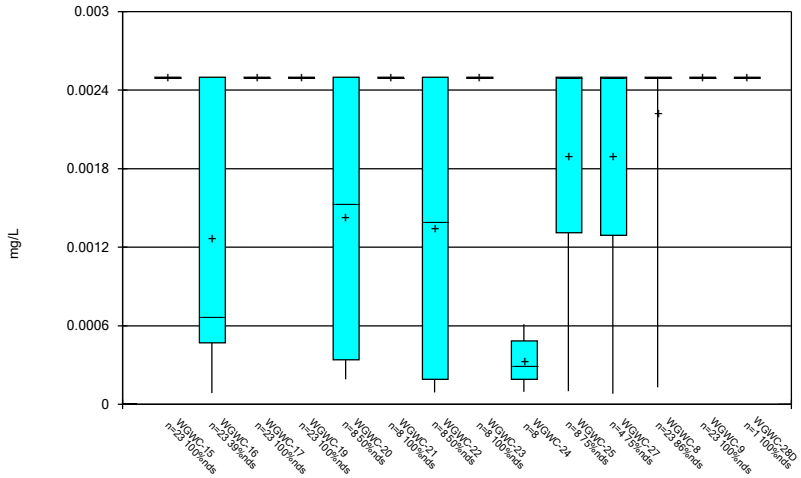
Box & Whiskers Plot



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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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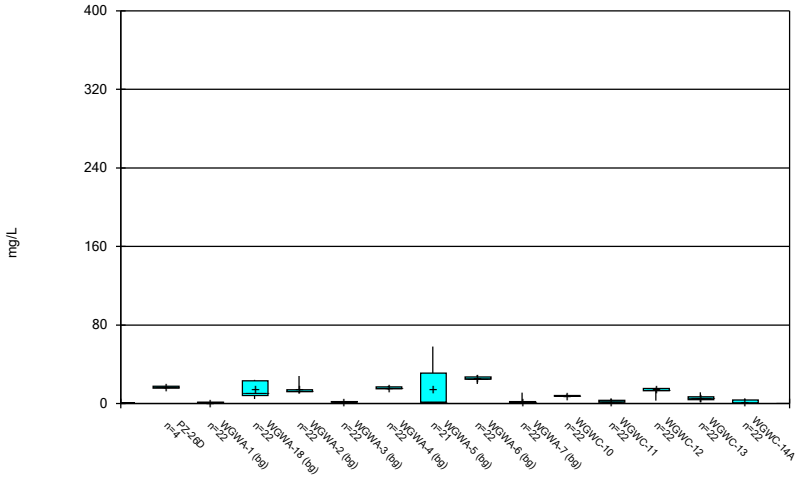
Box & Whiskers Plot



Constituent: Calcium, total Analysis Run 4/11/2024 5:00 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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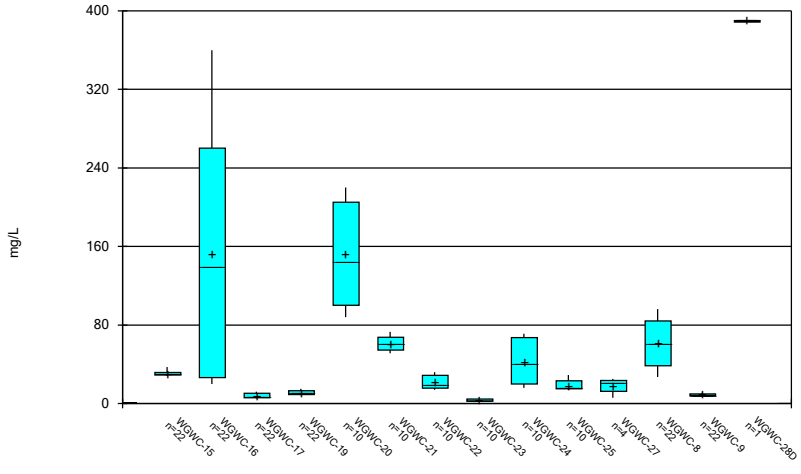
Box & Whiskers Plot



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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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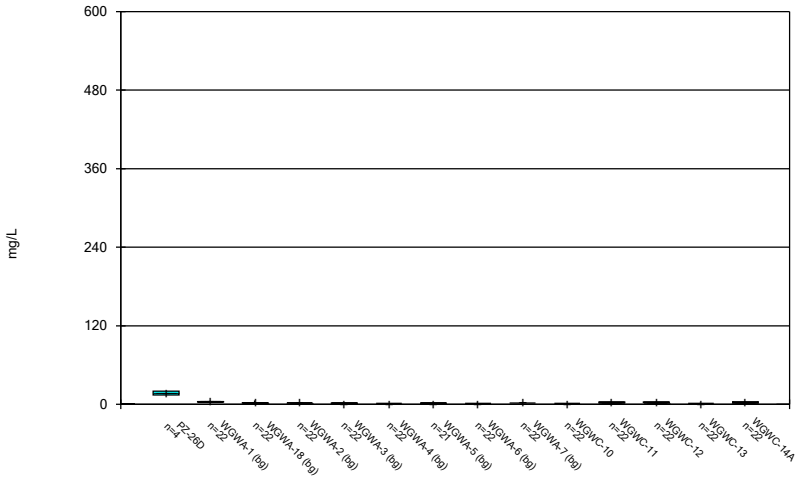
Box & Whiskers Plot



Constituent: Chloride, Total Analysis Run 4/11/2024 5:00 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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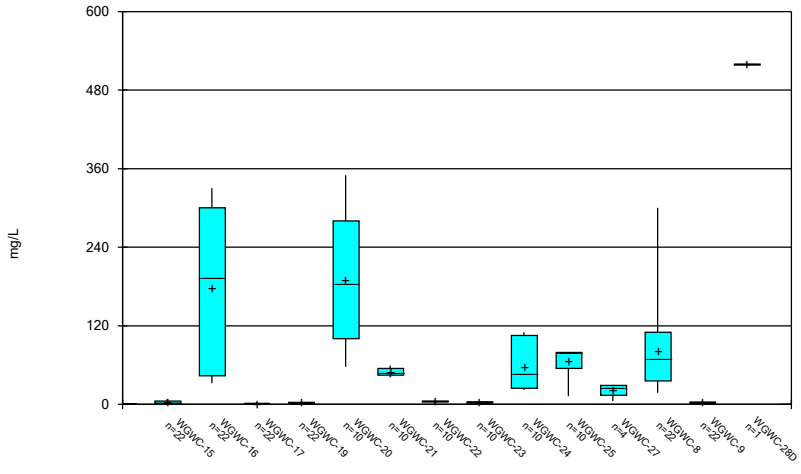
Box & Whiskers Plot



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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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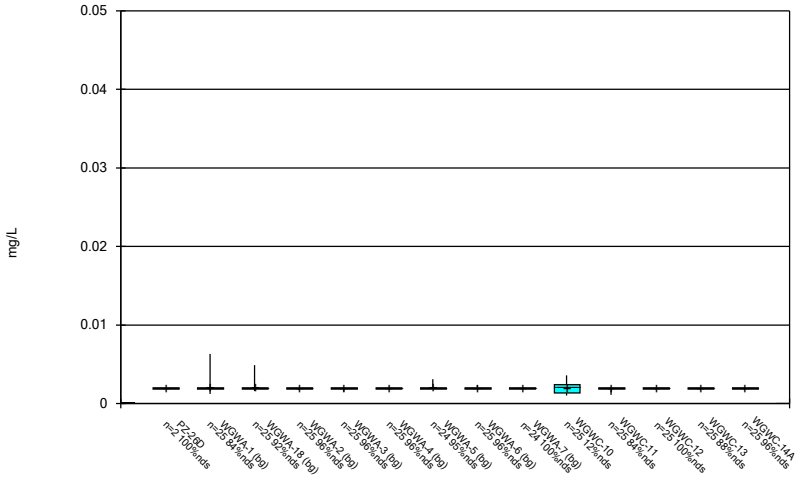
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/11/2024 5:00 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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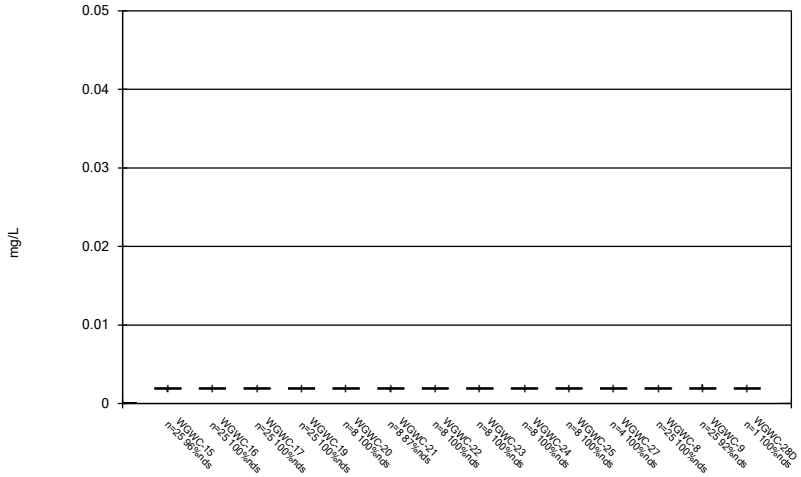
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/11/2024 5:00 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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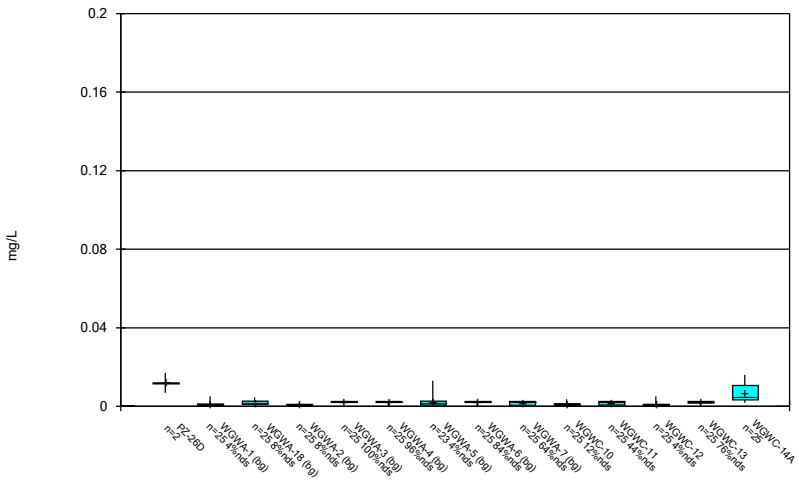
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/11/2024 5:00 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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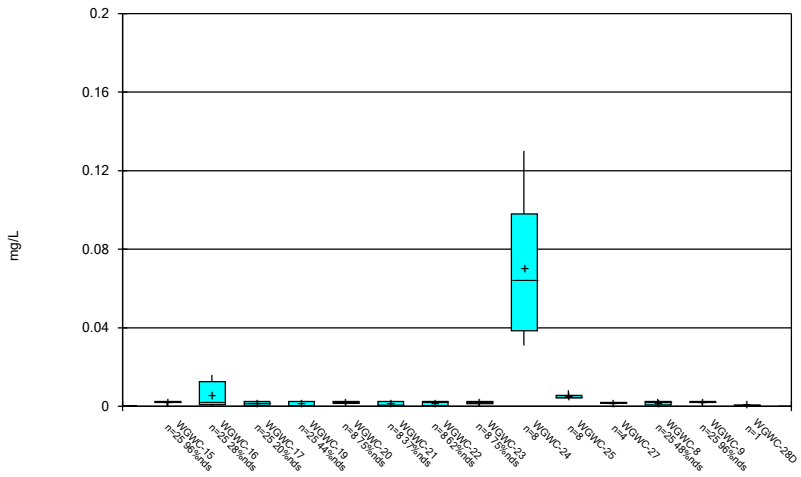
Box & Whiskers Plot



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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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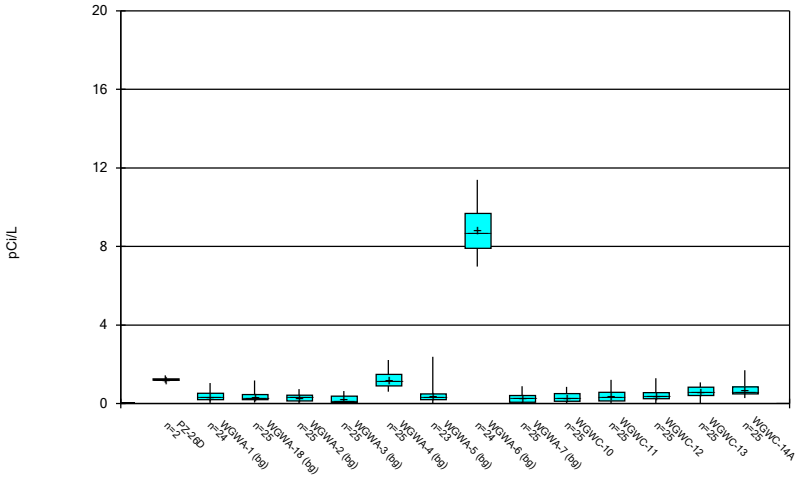
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/18/2024 12:32 PM View: Analysis
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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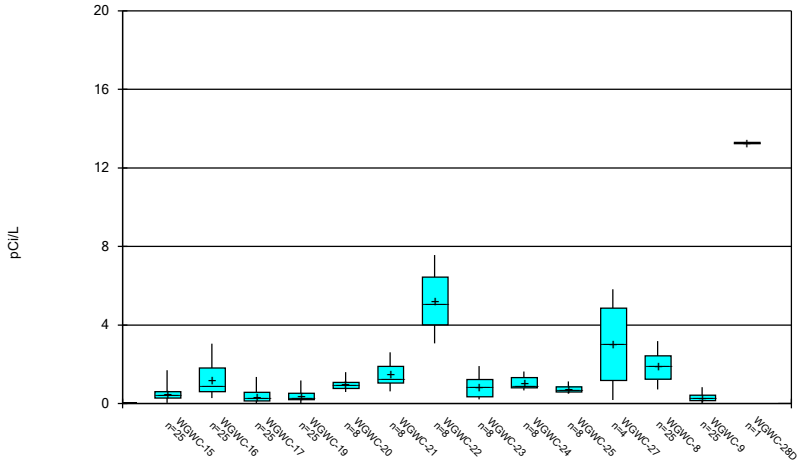
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/18/2024 12:32 PM View: Analysis
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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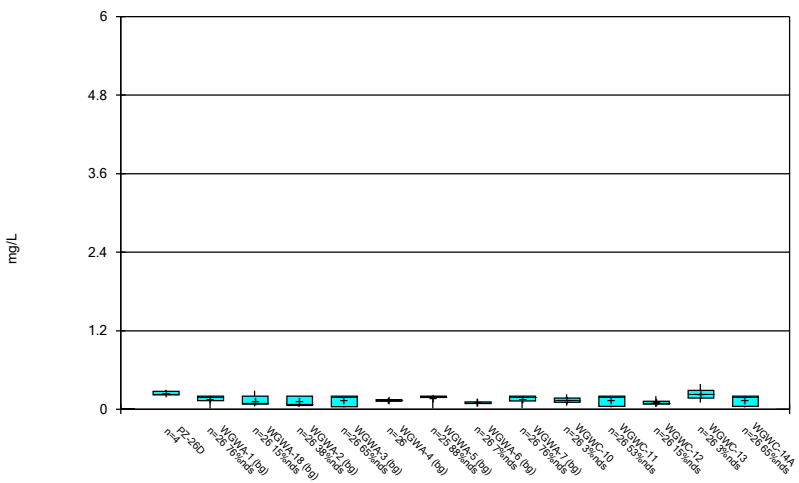
Box & Whiskers Plot



Constituent: Fluoride, total Analysis Run 4/18/2024 12:32 PM View: Analysis
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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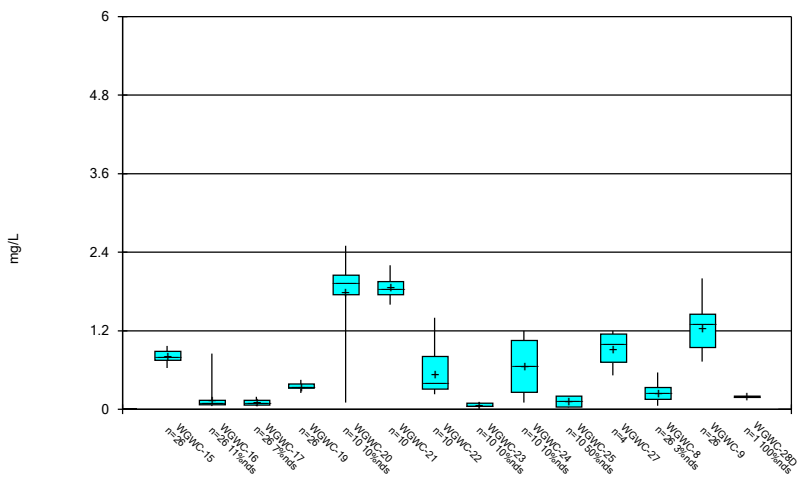
Box & Whiskers Plot



Constituent: Fluoride, total Analysis Run 4/18/2024 12:32 PM View: Analysis
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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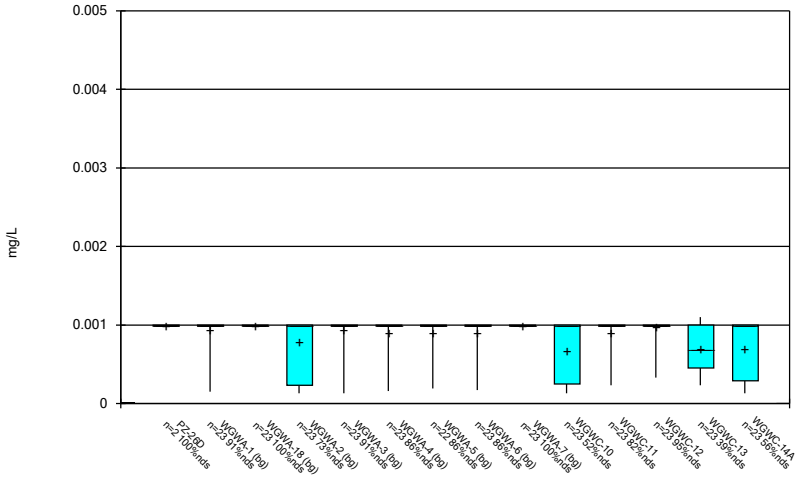
Box & Whiskers Plot



Constituent: Lead Analysis Run 4/11/2024 5:00 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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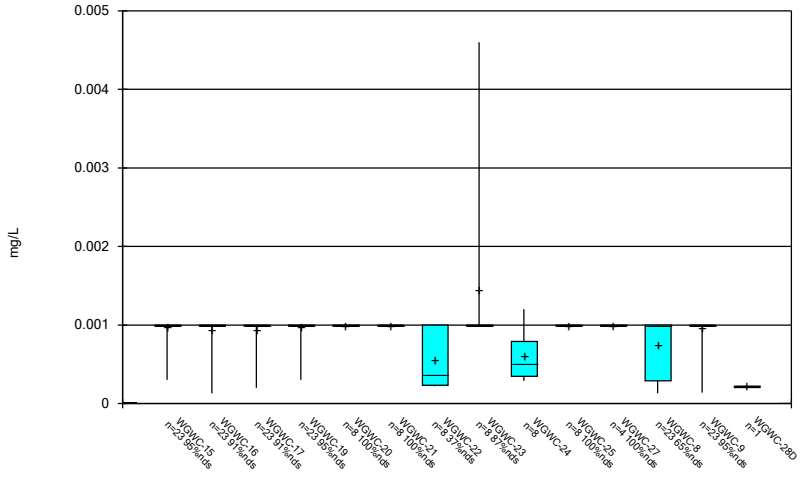
Box & Whiskers Plot



Constituent: Lead Analysis Run 4/11/2024 5:00 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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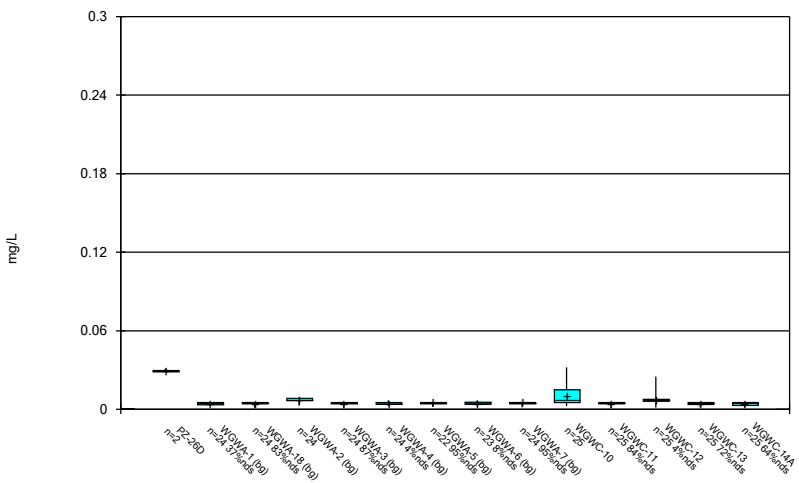
Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/11/2024 5:00 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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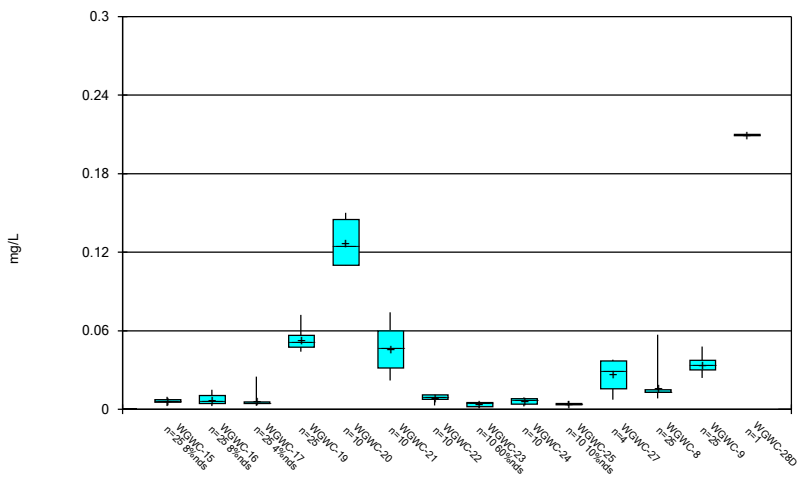
Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/11/2024 5:01 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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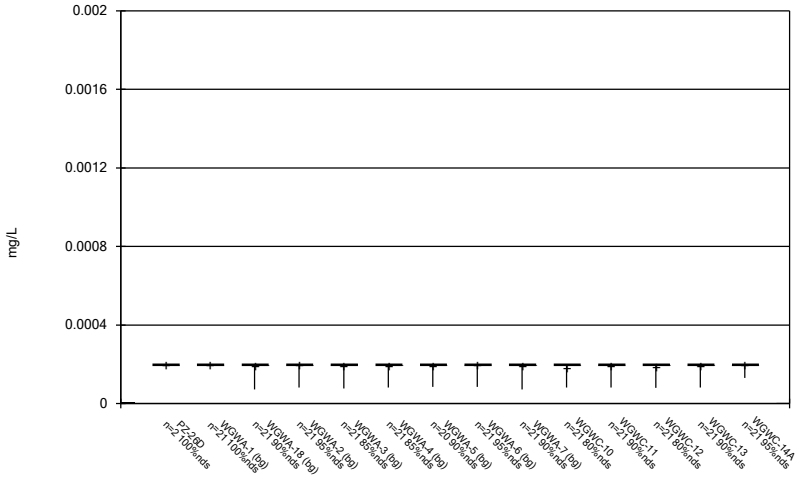
Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/11/2024 5:01 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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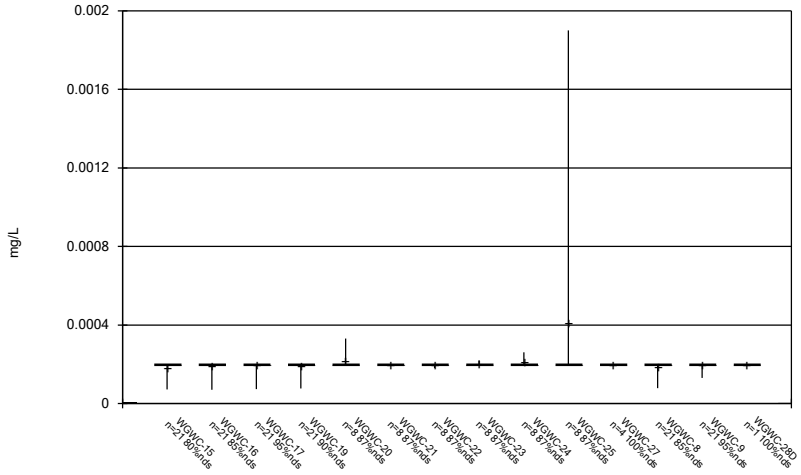
Box & Whiskers Plot



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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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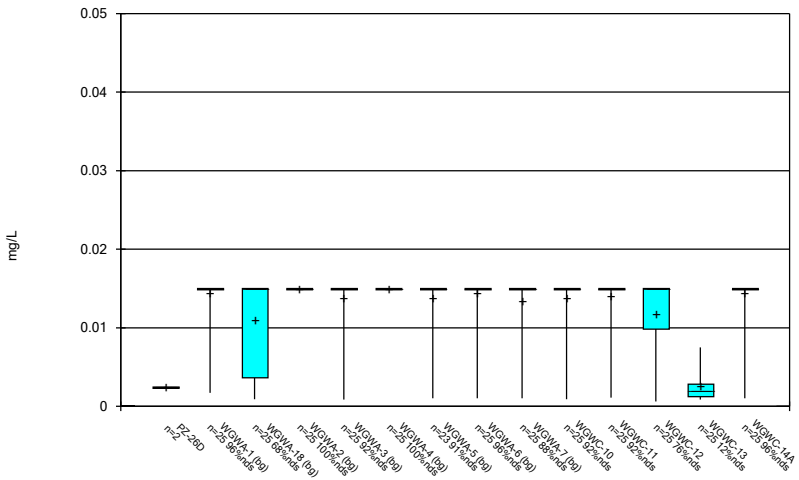
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/11/2024 5:01 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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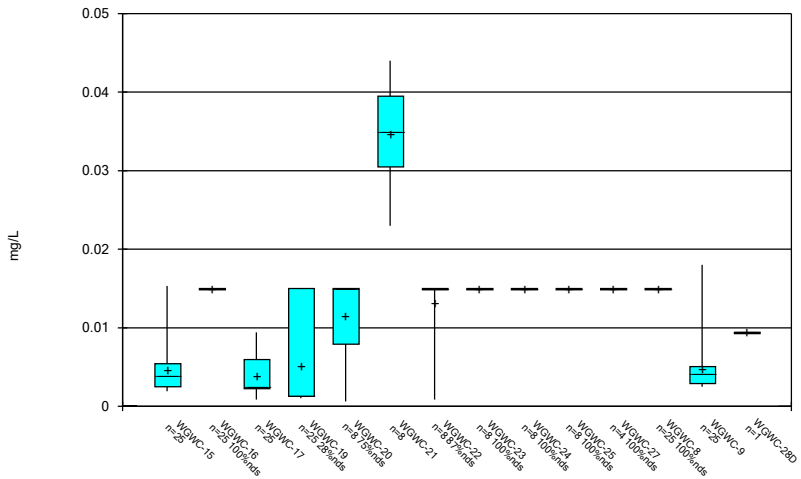
Box & Whiskers Plot



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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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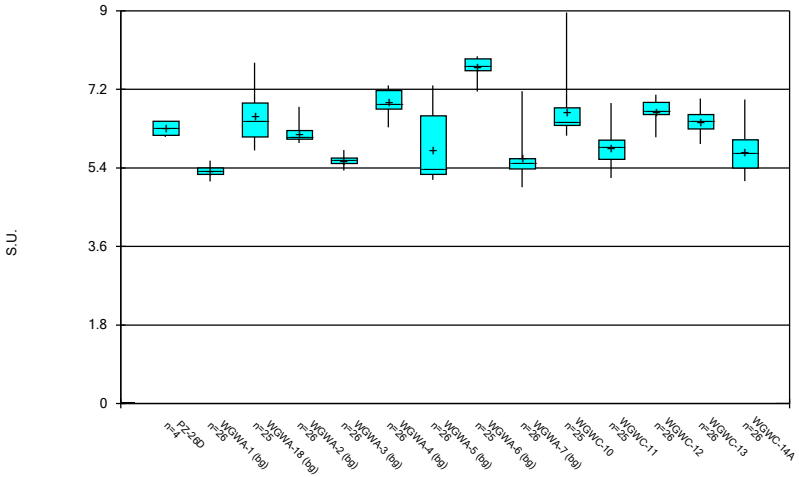
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 4/11/2024 5:01 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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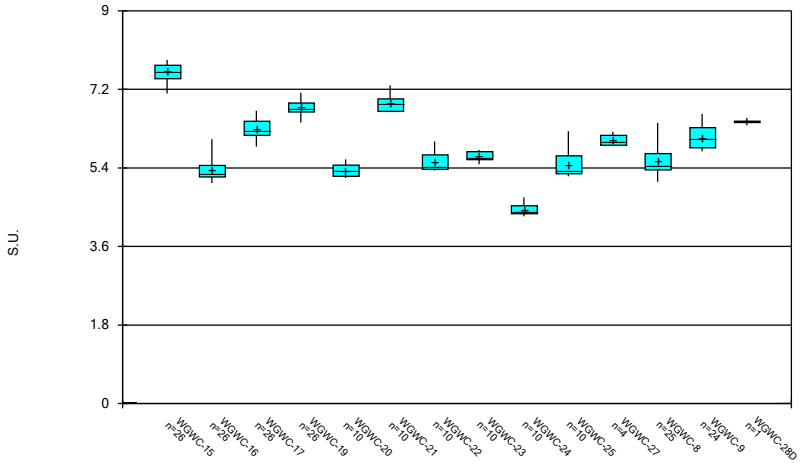
Box & Whiskers Plot



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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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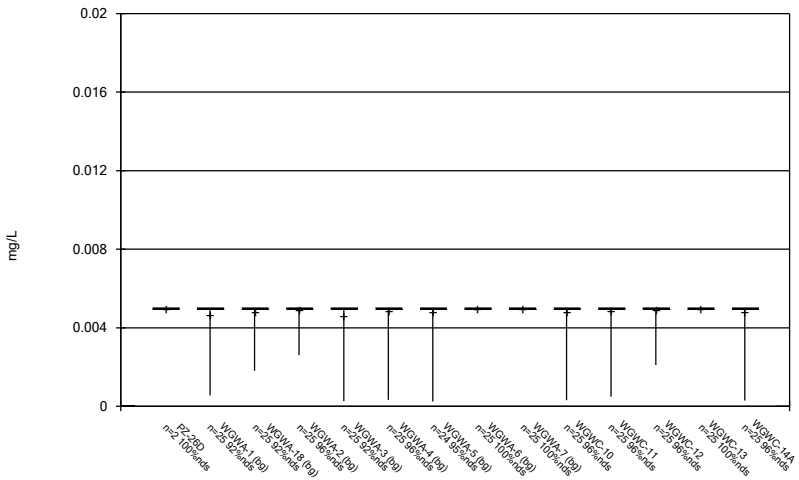

Constituent: Selenium Analysis Run 4/11/2024 5:01 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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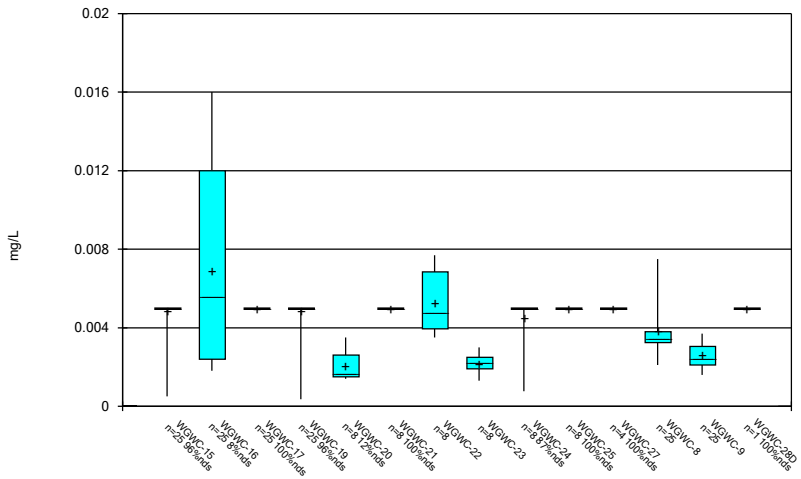
Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/11/2024 5:01 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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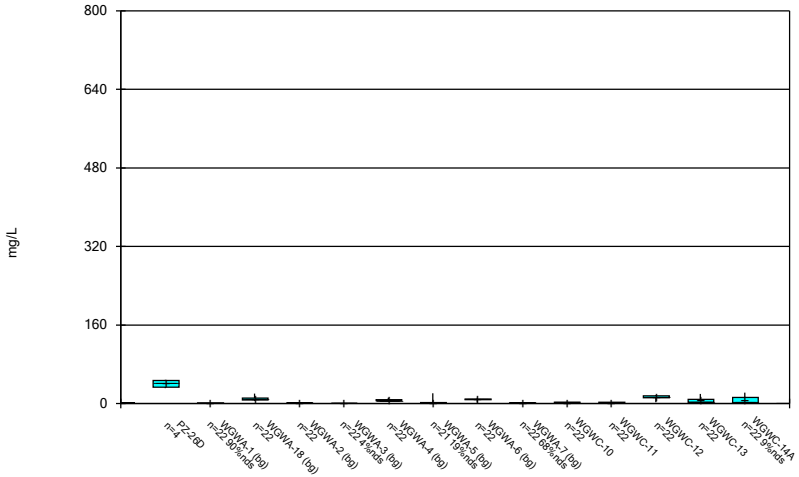
Box & Whiskers Plot



Constituent: Sulfate as SO4 Analysis Run 4/11/2024 5:01 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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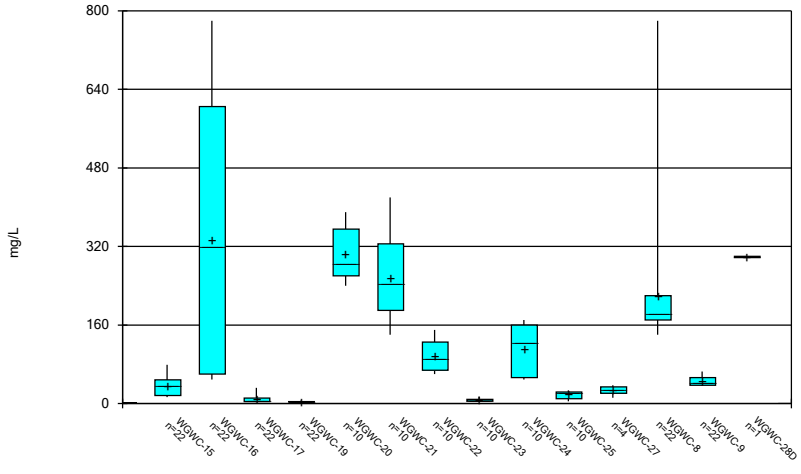
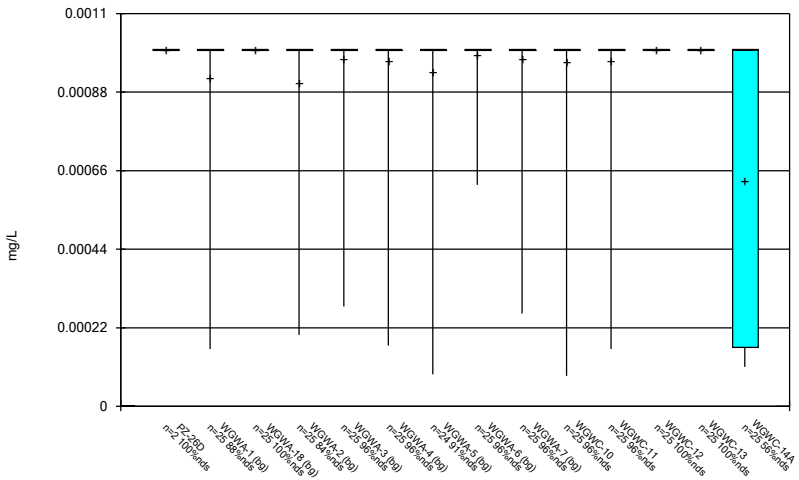
Box & Whiskers Plot



Constituent: Sulfate as SO4 Analysis Run 4/11/2024 5:01 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/11/2024 5:01 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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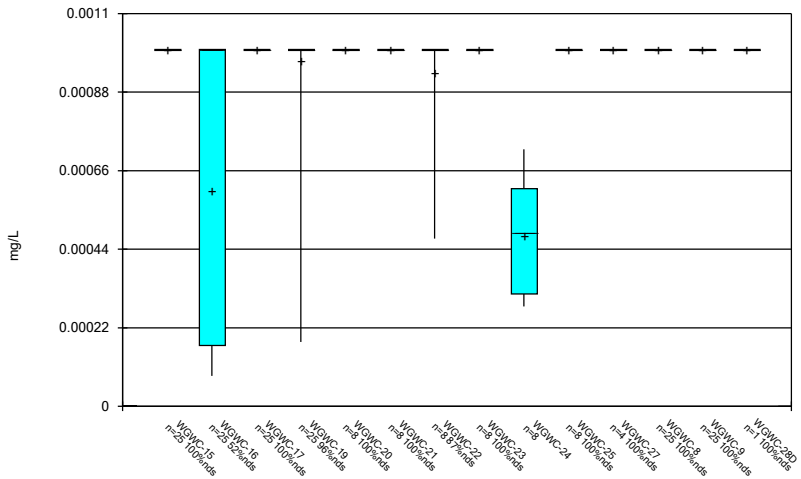
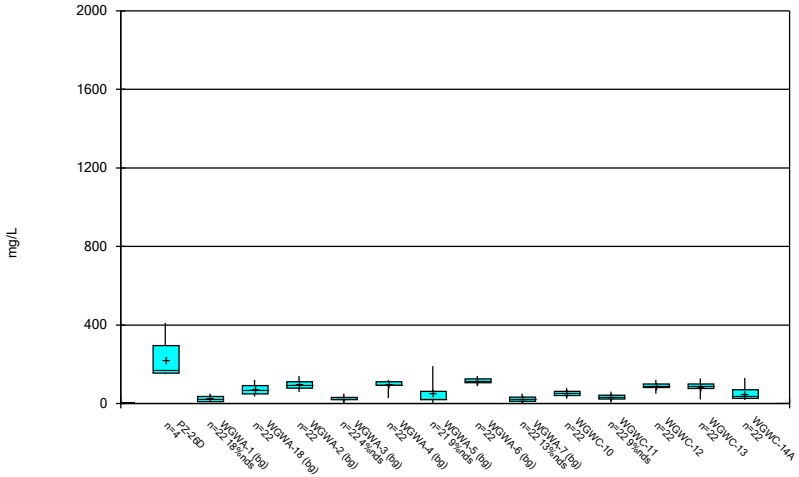
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/11/2024 5:01 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

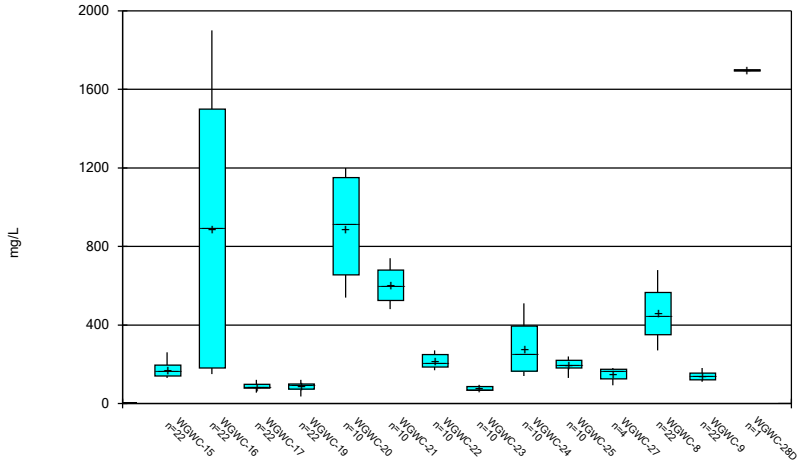
Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/11/2024 5:01 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/11/2024 5:01 PM View: Descriptive
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

FIGURE C.

Outlier Summary

Plant Wansley Data: Wansley Ash Pond Printed 4/1/2024, 3:26 PM

	WGWA-7 Chromium (mg/L)	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)
5/17/2016					<0.005 (O)	<0.005 (O)	<0.05 (O)			
5/18/2016								<0.005 (O)	<0.005 (O)	<0.005 (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)
2/13/2024	0.049 (o)									

	WGWA-6 Lithium (mg/L)	WGWA-7 Lithium (mg/L)	WGWA-5 Molybdenum (mg/L)
5/17/2016			
5/18/2016	<0.005 (O)	<0.005 (O)	
7/19/2016			
9/14/2016			0.016 (O)
1/19/2017			
3/14/2017			
9/16/2019	0.032 (O)		
2/13/2024			

FIGURE D.

Interwell Prediction Limits - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 8/9/2024, 5:17 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	2/15/2024	0.74	Yes	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-20	0.1	n/a	2/13/2024	5.6	Yes	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-21	0.1	n/a	2/15/2024	0.14	Yes	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-22	0.1	n/a	2/14/2024	0.33	Yes	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-24	0.1	n/a	2/14/2024	1	Yes	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-25	0.1	n/a	2/15/2024	0.29	Yes	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-8	0.1	n/a	2/13/2024	3	Yes	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-9	0.1	n/a	2/14/2024	0.56	Yes	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	WGWC-20	58	n/a	2/13/2024	210	Yes	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-21	58	n/a	2/15/2024	73	Yes	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-8	58	n/a	2/13/2024	91	Yes	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-16	6.05	n/a	2/15/2024	32	Yes	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-20	6.05	n/a	2/13/2024	230	Yes	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-21	6.05	n/a	2/15/2024	59	Yes	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-24	6.05	n/a	2/14/2024	22	Yes	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-25	6.05	n/a	2/15/2024	12	Yes	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-8	6.05	n/a	2/13/2024	88	Yes	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-15	0.284	n/a	2/15/2024	0.89	Yes	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-19	0.284	n/a	2/15/2024	0.4	Yes	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-21	0.284	n/a	2/15/2024	2.2	Yes	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-9	0.284	n/a	2/14/2024	0.73	Yes	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-24	7.96	4.96	2/14/2024	4.72	Yes	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-16	21	n/a	2/15/2024	50	Yes	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-20	21	n/a	2/13/2024	280	Yes	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-21	21	n/a	2/15/2024	420	Yes	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-22	21	n/a	2/14/2024	64	Yes	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-24	21	n/a	2/14/2024	55	Yes	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-8	21	n/a	2/13/2024	190	Yes	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-9	21	n/a	2/14/2024	37	Yes	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-20	190	n/a	2/13/2024	1200	Yes	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-21	190	n/a	2/15/2024	740	Yes	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-22	190	n/a	2/14/2024	210	Yes	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	190	n/a	2/13/2024	620	Yes	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 8/9/2024, 5:17 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	2/15/2024	0.08ND	No	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-11	0.1	n/a	2/16/2024	0.08ND	No	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-12	0.1	n/a	2/14/2024	0.08ND	No	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-13	0.1	n/a	2/15/2024	0.08ND	No	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-14A	0.1	n/a	2/15/2024	0.08ND	No	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-15	0.1	n/a	2/15/2024	0.08ND	No	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	**WGWC-16**	**0.1**	**n/a**	**2/15/2024**	**0.74**	**Yes**	**175**	**n/a**	**n/a**	**94.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	WGWC-17	0.1	n/a	2/15/2024	0.027J	No	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	WGWC-19	0.1	n/a	2/15/2024	0.08ND	No	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	**WGWC-20**	**0.1**	**n/a**	**2/13/2024**	**5.6**	**Yes**	**175**	**n/a**	**n/a**	**94.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**WGWC-21**	**0.1**	**n/a**	**2/15/2024**	**0.14**	**Yes**	**175**	**n/a**	**n/a**	**94.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**WGWC-22**	**0.1**	**n/a**	**2/14/2024**	**0.33**	**Yes**	**175**	**n/a**	**n/a**	**94.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	WGWC-23	0.1	n/a	2/15/2024	0.08ND	No	175	n/a	n/a	94.86	n/a	n/a	0.00006437	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	**WGWC-24**	**0.1**	**n/a**	**2/14/2024**	**1**	**Yes**	**175**	**n/a**	**n/a**	**94.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**WGWC-25**	**0.1**	**n/a**	**2/15/2024**	**0.29**	**Yes**	**175**	**n/a**	**n/a**	**94.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**WGWC-8**	**0.1**	**n/a**	**2/13/2024**	**3**	**Yes**	**175**	**n/a**	**n/a**	**94.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**WGWC-9**	**0.1**	**n/a**	**2/14/2024**	**0.56**	**Yes**	**175**	**n/a**	**n/a**	**94.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (NDs) 1 of 2**
Calcium, total (mg/L)	WGWC-10	58	n/a	2/15/2024	7.7	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-11	58	n/a	2/16/2024	1.6	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-12	58	n/a	2/14/2024	13	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-13	58	n/a	2/15/2024	3.7	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-14A	58	n/a	2/15/2024	0.66	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-15	58	n/a	2/15/2024	31	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-16	58	n/a	2/15/2024	20	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-17	58	n/a	2/15/2024	6.2	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-19	58	n/a	2/15/2024	14	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**WGWC-20**	**58**	**n/a**	**2/13/2024**	**210**	**Yes**	**175**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**WGWC-21**	**58**	**n/a**	**2/15/2024**	**73**	**Yes**	**175**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	WGWC-22	58	n/a	2/14/2024	21	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-23	58	n/a	2/15/2024	2.5	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-24	58	n/a	2/14/2024	24	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	WGWC-25	58	n/a	2/15/2024	29	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**WGWC-8**	**58**	**n/a**	**2/13/2024**	**91**	**Yes**	**175**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	WGWC-9	58	n/a	2/14/2024	9.1	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-10	6.05	n/a	2/15/2024	1.8	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-11	6.05	n/a	2/16/2024	4.3	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-12	6.05	n/a	2/14/2024	2.8	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-13	6.05	n/a	2/15/2024	1.3	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-14A	6.05	n/a	2/15/2024	2.5	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-15	6.05	n/a	2/15/2024	1.4	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	**WGWC-16**	**6.05**	**n/a**	**2/15/2024**	**32**	**Yes**	**175**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	WGWC-17	6.05	n/a	2/15/2024	1.6	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-19	6.05	n/a	2/15/2024	3.5	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	**WGWC-20**	**6.05**	**n/a**	**2/13/2024**	**230**	**Yes**	**175**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**WGWC-21**	**6.05**	**n/a**	**2/15/2024**	**59**	**Yes**	**175**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	WGWC-22	6.05	n/a	2/14/2024	4.1	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	WGWC-23	6.05	n/a	2/15/2024	3.5	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	**WGWC-24**	**6.05**	**n/a**	**2/14/2024**	**22**	**Yes**	**175**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**WGWC-25**	**6.05**	**n/a**	**2/15/2024**	**12**	**Yes**	**175**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**WGWC-8**	**6.05**	**n/a**	**2/13/2024**	**88**	**Yes**	**175**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	WGWC-9	6.05	n/a	2/14/2024	3.2	No	175	n/a	n/a	0	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-10	0.284	n/a	2/15/2024	0.2ND	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-11	0.284	n/a	2/16/2024	0.2ND	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-12	0.284	n/a	2/14/2024	0.044J	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-13	0.284	n/a	2/15/2024	0.21J	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 8/9/2024, 5:17 PM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	WGWC-14A	0.284	n/a	2/15/2024	0.2ND	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	**WGWC-15**	**0.284**	**n/a**	**2/15/2024**	**0.89**	**Yes**	**207**	**n/a**	**n/a**	**45.89**	**n/a**	**n/a**	**0.00004908**	**NP Inter (normality) 1 of 2**
Fluoride, total (mg/L)	WGWC-16	0.284	n/a	2/15/2024	0.2ND	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-17	0.284	n/a	2/15/2024	0.2ND	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	**WGWC-19**	**0.284**	**n/a**	**2/15/2024**	**0.4**	**Yes**	**207**	**n/a**	**n/a**	**45.89**	**n/a**	**n/a**	**0.00004908**	**NP Inter (normality) 1 of 2**
Fluoride, total (mg/L)	WGWC-20	0.284	n/a	2/13/2024	0.2ND	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	**WGWC-21**	**0.284**	**n/a**	**2/15/2024**	**2.2**	**Yes**	**207**	**n/a**	**n/a**	**45.89**	**n/a**	**n/a**	**0.00004908**	**NP Inter (normality) 1 of 2**
Fluoride, total (mg/L)	WGWC-22	0.284	n/a	2/14/2024	0.23	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-23	0.284	n/a	2/15/2024	0.2ND	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-24	0.284	n/a	2/14/2024	0.2ND	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-25	0.284	n/a	2/15/2024	0.2ND	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	WGWC-8	0.284	n/a	2/13/2024	0.2ND	No	207	n/a	n/a	45.89	n/a	n/a	0.00004908	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	**WGWC-9**	**0.284**	**n/a**	**2/14/2024**	**0.73**	**Yes**	**207**	**n/a**	**n/a**	**45.89**	**n/a**	**n/a**	**0.00004908**	**NP Inter (normality) 1 of 2**
pH, Field (S.U.)	WGWC-10	7.96	4.96	2/15/2024	6.41	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-11	7.96	4.96	2/16/2024	5.6	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-12	7.96	4.96	2/14/2024	6.67	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-13	7.96	4.96	2/15/2024	6.3	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-14A	7.96	4.96	2/15/2024	5.18	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-15	7.96	4.96	2/15/2024	7.88	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-16	7.96	4.96	2/15/2024	5.31	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-17	7.96	4.96	2/15/2024	6.16	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-19	7.96	4.96	2/15/2024	6.87	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-20	7.96	4.96	2/13/2024	5.34	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-21	7.96	4.96	2/15/2024	6.7	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-22	7.96	4.96	2/14/2024	5.84	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-23	7.96	4.96	2/15/2024	5.62	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	**WGWC-24**	**7.96**	**4.96**	**2/14/2024**	**4.72**	**Yes**	**206**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00009815**	**NP Inter (normality) 1 of 2**
pH, Field (S.U.)	WGWC-25	7.96	4.96	2/15/2024	6.24	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-8	7.96	4.96	2/13/2024	5.31	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
pH, Field (S.U.)	WGWC-9	7.96	4.96	2/14/2024	6.13	No	206	n/a	n/a	0	n/a	n/a	0.00009815	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-10	21	n/a	2/15/2024	3.2	No	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-11	21	n/a	2/16/2024	2.1	No	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-12	21	n/a	2/14/2024	8.8	No	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-13	21	n/a	2/15/2024	4.3	No	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-14A	21	n/a	2/15/2024	1.2	No	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-15	21	n/a	2/15/2024	16	No	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**WGWC-16**	**21**	**n/a**	**2/15/2024**	**50**	**Yes**	**175**	**n/a**	**n/a**	**22.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	WGWC-17	21	n/a	2/15/2024	5.4	No	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	WGWC-19	21	n/a	2/15/2024	5.7	No	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**WGWC-20**	**21**	**n/a**	**2/13/2024**	**280**	**Yes**	**175**	**n/a**	**n/a**	**22.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**WGWC-21**	**21**	**n/a**	**2/15/2024**	**420**	**Yes**	**175**	**n/a**	**n/a**	**22.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**WGWC-22**	**21**	**n/a**	**2/14/2024**	**64**	**Yes**	**175**	**n/a**	**n/a**	**22.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	WGWC-23	21	n/a	2/15/2024	8.7	No	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**WGWC-24**	**21**	**n/a**	**2/14/2024**	**55**	**Yes**	**175**	**n/a**	**n/a**	**22.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	WGWC-25	21	n/a	2/15/2024	21	No	175	n/a	n/a	22.86	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**WGWC-8**	**21**	**n/a**	**2/13/2024**	**190**	**Yes**	**175**	**n/a**	**n/a**	**22.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**WGWC-9**	**21**	**n/a**	**2/14/2024**	**37**	**Yes**	**175**	**n/a**	**n/a**	**22.86**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	WGWC-10	190	n/a	2/15/2024	53	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-11	190	n/a	2/16/2024	31	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-12	190	n/a	2/14/2024	85	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-13	190	n/a	2/15/2024	84	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-14A	190	n/a	2/15/2024	31	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-15	190	n/a	2/15/2024	130	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-16	190	n/a	2/15/2024	150	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-17	190	n/a	2/15/2024	79	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 8/9/2024, 5:17 PM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	WGWC-19	190	n/a	2/15/2024	100	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**WGWC-20**	**190**	**n/a**	**2/13/2024**	**1200**	**Yes**	**175**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**WGWC-21**	**190**	**n/a**	**2/15/2024**	**740**	**Yes**	**175**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**WGWC-22**	**190**	**n/a**	**2/14/2024**	**210**	**Yes**	**175**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	WGWC-23	190	n/a	2/15/2024	76	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-24	190	n/a	2/14/2024	180	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	WGWC-25	190	n/a	2/15/2024	130	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**WGWC-8**	**190**	**n/a**	**2/13/2024**	**620**	**Yes**	**175**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.00006437**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	WGWC-9	190	n/a	2/14/2024	150	No	175	n/a	n/a	5.714	n/a	n/a	0.00006437	NP Inter (normality) 1 of 2

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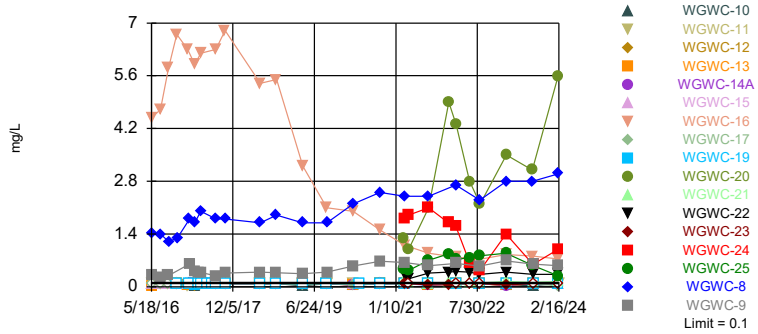
Hollow symbols indicate censored values.

Exceeds Limit: WGWC-16, WGWC-20, WGWC-21, WGWC-22, WGWC-24, WGWC-25, 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 175 background values. 94.86% NDs. Annual per-constituent alpha = 0.002186. Individual comparison alpha = 0.00006437 (1 of 2). Comparing 17 points to limit.

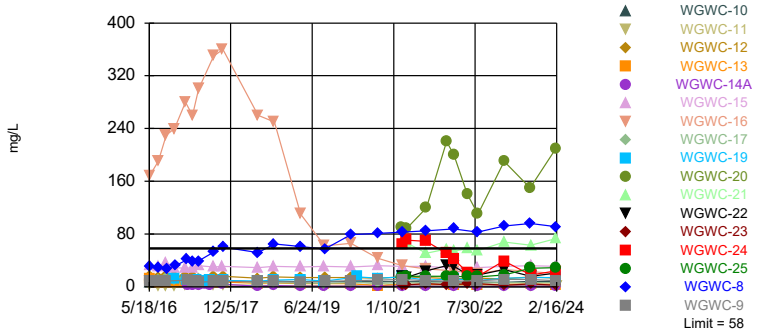
Constituent: Boron, total Analysis Run 8/9/2024 5:15 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: WGWC-20, WGWC-21, 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 175 background values. Annual per-constituent alpha = 0.002186. Individual comparison alpha = 0.00006437 (1 of 2). Comparing 17 points to limit.

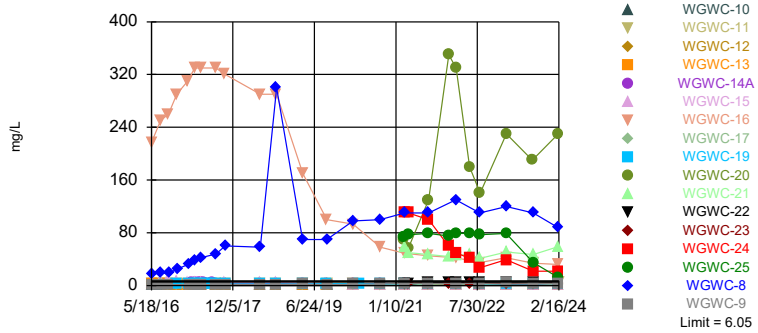
Constituent: Calcium, total Analysis Run 8/9/2024 5:15 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: WGWC-16, WGWC-20, WGWC-21, WGWC-24, WGWC-25, 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 175 background values. Annual per-constituent alpha = 0.002186. Individual comparison alpha = 0.00006437 (1 of 2). Comparing 17 points to limit.

Constituent: Chloride, Total Analysis Run 8/9/2024 5:15 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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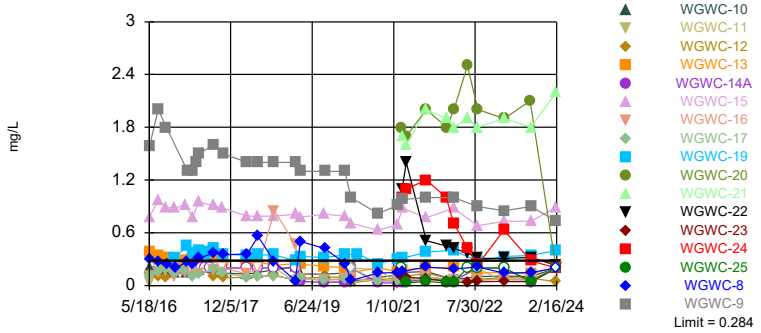
Hollow symbols indicate censored values.

Exceeds Limit: WGWC-15, WGWC-19, WGWC-21, 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 207 background values. 45.89% NDs. Annual per-constituent alpha = 0.001667. Individual comparison alpha = 0.00004908 (1 of 2). Comparing 17 points to limit.

Constituent: Fluoride, total Analysis Run 8/9/2024 5:15 PM View: Appendix III
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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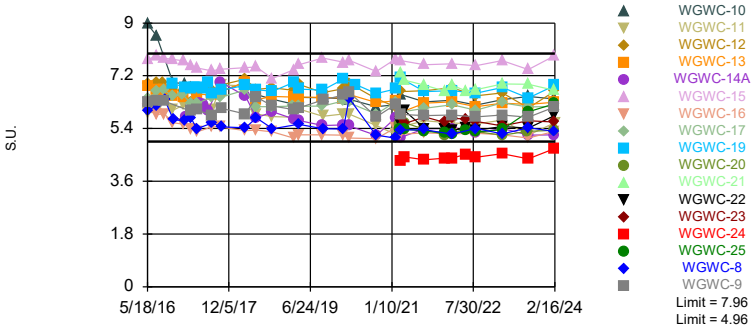
Exceeds Limits: WGWC-24

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 206 background values. Annual per-constituent alpha = 0.003334. Individual comparison alpha = 0.00009815 (1 of 2). Comparing 17 points to limit.

Constituent: pH, Field Analysis Run 8/9/2024 5:16 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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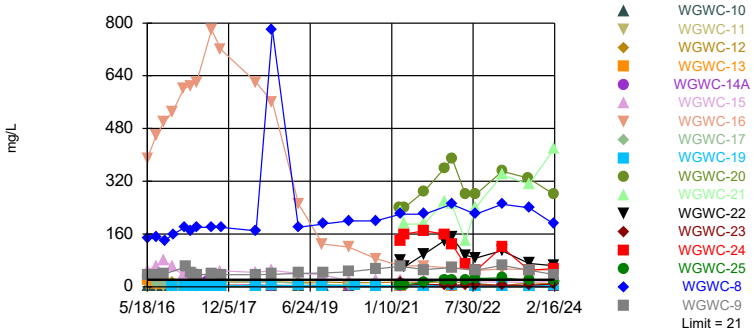
Hollow symbols indicate censored values.

Exceeds Limit: WGWC-16, WGWC-20, WGWC-21, WGWC-22, WGWC-24, 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 175 background values. 22.86% NDs. Annual per-constituent alpha = 0.002186. Individual comparison alpha = 0.00006437 (1 of 2). Comparing 17 points to limit.

Constituent: Sulfate as SO4 Analysis Run 8/9/2024 5:16 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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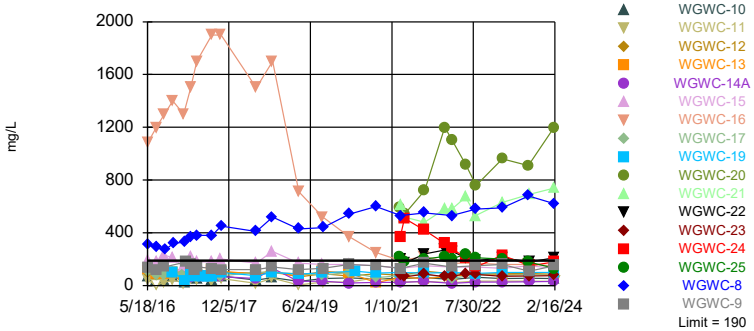
Hollow symbols indicate censored values.

Exceeds Limit: WGWC-20, WGWC-21, WGWC-22, 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 175 background values. 5.714% NDs. Annual per-constituent alpha = 0.002186. Individual comparison alpha = 0.00006437 (1 of 2). Comparing 17 points to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/9/2024 5:16 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 8/9/2024 5:17 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)	WGWA-6 (bg)	WGWC-15	WGWC-16	WGWA-4 (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	<0.08	<0.08	4.7	
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			<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	6.7	<0.08
11/11/2016				<0.08					
11/14/2016									
1/17/2017	<0.08	<0.08							
1/18/2017					<0.08	<0.08			<0.08
1/19/2017			<0.08						
1/20/2017									
1/24/2017							<0.08	6.3	
1/27/2017									
2/6/2017				<0.08					
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
3/15/2017				0.032 (J)				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	6.2	<0.08
4/26/2017				<0.08					
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	6.3	<0.08
8/10/2017				<0.08					
10/10/2017	<0.08	<0.08							
10/11/2017			<0.08		<0.08	<0.08	<0.08	6.8	<0.08
10/12/2017				<0.08					
6/13/2018	<0.08		<0.08			<0.08			
6/14/2018		<0.08		<0.08	<0.08		<0.08	5.4	<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
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
4/3/2019									
4/4/2019				0.024 (J)			<0.08	3.2	
9/16/2019	<0.08					<0.08			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 8/9/2024 5:17 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)	WGWA-6 (bg)	WGWC-15	WGWC-16	WGWA-4 (bg)
9/17/2019		<0.08	<0.08						<0.08
9/18/2019					<0.08		<0.08	2.1	
9/19/2019				<0.08					
3/16/2020	<0.08	0.048 (J)							
3/17/2020			<0.08		<0.08	<0.08			<0.08
3/18/2020				0.049 (J)			0.071 (J)	2	
3/19/2020									
5/4/2020									
9/21/2020		<0.08							<0.08
9/22/2020	<0.08		<0.08		<0.08	<0.08			
9/23/2020				<0.08			<0.08	1.5	
9/24/2020									
3/8/2021									
3/9/2021									
3/10/2021		0.039 (J)	<0.08		<0.08				<0.08
3/11/2021	<0.08			<0.08		<0.08		1.1	
3/12/2021							<0.08		
4/7/2021									
4/8/2021									
8/23/2021		<0.08							
8/24/2021	<0.08				<0.08	<0.08			<0.08
8/25/2021			0.1					0.89	
8/26/2021				<0.08			<0.08		
1/11/2022									
1/12/2022									
2/28/2022									<0.08
3/1/2022	<0.08	<0.08				<0.08			
3/3/2022			0.1	<0.08	<0.08		<0.08	0.79	
3/4/2022									
6/6/2022									
6/7/2022									
8/15/2022	<0.08	0.066 (J)				<0.08			
8/16/2022			<0.08		<0.08				<0.08
8/17/2022							<0.08	0.73	
8/18/2022									
8/19/2022				<0.08					
2/14/2023	0.026 (J)	0.023 (J)	<0.08		0.033 (J)	<0.08			
2/15/2023							<0.08	0.86	<0.08
2/16/2023				0.04 (J)					
8/15/2023									
8/18/2023	<0.08	<0.08	<0.08		<0.08	<0.08		0.81	<0.08
8/21/2023				0.031 (J)			<0.08		
2/13/2024	<0.08	<0.08	<0.08		<0.08	<0.08			<0.08
2/14/2024									
2/15/2024				<0.08			<0.08	0.74	
2/16/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-3 (bg)	WGWC-17	WGWA-5 (bg)	WGWC-8	WGWC-9	WGWC-11	WGWC-12	WGWC-13	WGWC-19
5/17/2016									
5/18/2016	<0.08	<0.08	<0.08						
5/19/2016				1.42	0.314	<0.08	<0.08	0.0252 (J)	
7/19/2016			<0.08						
7/20/2016	<0.08	<0.08		1.4	0.25	<0.08	<0.08	<0.08	
9/13/2016	<0.08								
9/14/2016		<0.08	<0.08		0.3	<0.08	<0.08	<0.08	
9/15/2016				1.2					
11/9/2016									
11/10/2016	<0.08	<0.08						<0.08	
11/11/2016						<0.08	<0.08		<0.08
11/14/2016				1.3					
1/17/2017									
1/18/2017	<0.08								
1/19/2017			<0.08						
1/20/2017		<0.08							
1/24/2017									
1/27/2017						0.021 (J)	0.047 (J)	0.033 (J)	
2/6/2017				1.8					<0.08
2/8/2017									
2/9/2017					0.61				
2/23/2017									
3/13/2017									
3/14/2017	<0.08	<0.08	<0.08						
3/15/2017				1.7	0.42	0.058	0.024 (J)	<0.08	0.034 (J)
3/17/2017									
4/11/2017					0.37				<0.08
4/24/2017									
4/25/2017	<0.08	<0.08	<0.08						
4/26/2017				2	0.38	<0.08	<0.08	<0.08	<0.08
5/17/2017									
6/7/2017									<0.08
7/11/2017									<0.08
8/8/2017	<0.08								
8/9/2017		<0.08	<0.08					<0.08	
8/10/2017				1.8	0.29	<0.08	<0.08		<0.08
10/10/2017									
10/11/2017	<0.08	<0.08	<0.08						
10/12/2017				1.8	0.36	<0.08	<0.08	<0.08	<0.08
6/13/2018			<0.08						
6/14/2018	<0.08	<0.08		1.7	0.39	<0.08	<0.08	<0.08	<0.08
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018	<0.08		<0.08						
10/4/2018		<0.08		1.9	0.37	<0.08	<0.08	<0.08	<0.08
4/1/2019									
4/2/2019	<0.08		<0.08						<0.08
4/3/2019				1.7	0.35	<0.08	<0.08	<0.08	
4/4/2019		0.049 (J)							
9/16/2019			<0.08						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-3 (bg)	WGWC-17	WGWA-5 (bg)	WGWC-8	WGWC-9	WGWC-11	WGWC-12	WGWC-13	WGWC-19
9/17/2019									
9/18/2019	<0.08	<0.08						<0.08	<0.08
9/19/2019				1.7	0.39	<0.08	<0.08		
3/16/2020									
3/17/2020	<0.08		<0.08						
3/18/2020		0.049 (J)				<0.08	0.039 (J)		
3/19/2020				2.2	0.55			0.053 (J)	
5/4/2020									<0.08
9/21/2020	<0.08								
9/22/2020			<0.08	2.5					
9/23/2020		<0.08			0.68		<0.08		<0.08
9/24/2020						<0.08		<0.08	
3/8/2021									
3/9/2021									
3/10/2021	<0.08		<0.08						
3/11/2021		<0.08		2.4				<0.08	<0.08
3/12/2021					0.64	<0.08	<0.08		
4/7/2021									
4/8/2021									
8/23/2021									
8/24/2021			<0.08						
8/25/2021	<0.08	<0.08				<0.08	<0.08	0.063 (J)	
8/26/2021				2.4	0.56				<0.08
1/11/2022									
1/12/2022									
2/28/2022									
3/1/2022	<0.08		<0.08						
3/3/2022				2.7	0.62	<0.08		<0.08	<0.08
3/4/2022		<0.08					<0.08		
6/6/2022									
6/7/2022									
8/15/2022			<0.08						
8/16/2022	<0.08	<0.08		2.3		<0.08			
8/17/2022					0.55				<0.08
8/18/2022							<0.08	<0.08	
8/19/2022									
2/14/2023	<0.08		0.03 (J)						
2/15/2023					0.69				
2/16/2023		<0.08		2.8		<0.08	0.024 (J)	0.033 (J)	<0.08
8/15/2023									
8/18/2023	<0.08		<0.08	2.8					
8/21/2023		<0.08			0.6	<0.08	<0.08	<0.08	<0.08
2/13/2024	<0.08			3					
2/14/2024					0.56		<0.08		
2/15/2024		0.027 (J)						<0.08	<0.08
2/16/2024			<0.08			<0.08			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-25	WGWC-20	WGWC-24	WGWC-21	WGWC-23	WGWC-22
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							

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-25	WGWC-20	WGWC-24	WGWC-21	WGWC-23	WGWC-22
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						
3/8/2021		0.48	1.3				
3/9/2021				1.8	0.19	0.073 (J)	0.33
3/10/2021							
3/11/2021	<0.08						
3/12/2021							
4/7/2021				1.9	0.13	<0.08	
4/8/2021		0.43	0.98				0.21
8/23/2021							
8/24/2021							
8/25/2021	0.043 (J)						
8/26/2021		0.7	2.1	2.1	0.087	0.052 (J)	0.36
1/11/2022		0.87		1.7	0.12	0.048 (J)	0.39
1/12/2022			4.9				
2/28/2022							
3/1/2022							
3/3/2022	<0.08			1.6	0.12		
3/4/2022		0.72	4.3			<0.08	0.41
6/6/2022				0.64	0.13	<0.08	
6/7/2022		0.78	2.8				0.39
8/15/2022							
8/16/2022					0.099		
8/17/2022		0.82				<0.08	
8/18/2022			2.2	0.44			
8/19/2022	<0.08						0.33
2/14/2023							
2/15/2023		0.89		1.4		0.049 (J)	0.39
2/16/2023	0.03 (J)		3.5		0.14		
8/15/2023			3.1				
8/18/2023		0.57					
8/21/2023	<0.08			0.59	0.12	<0.08	0.33
2/13/2024			5.6				
2/14/2024				1			0.33
2/15/2024	<0.08	0.29			0.14	<0.08	
2/16/2024							

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 8/9/2024 5:17 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)	WGWA-6 (bg)	WGWC-15	WGWC-16	WGWA-4 (bg)
5/17/2016	0.927	12.2	23.7						
5/18/2016				7.17	1.36	27	32.5	168	17.9
5/19/2016									
7/19/2016	1	13	23		0.88	23	30	190	
7/20/2016				7					15
9/13/2016	0.44	13	23		0.93	25			16
9/14/2016				7.7			37	230	
9/15/2016									
11/9/2016	1.1	19	6.7			25			
11/10/2016					6.1		29	240	15
11/11/2016				8.2					
11/14/2016									
1/17/2017	1.4	28							
1/18/2017					10	26			17
1/19/2017			8.5						
1/20/2017									
1/24/2017							28	280	
1/27/2017									
2/6/2017				9.1					
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	1.1	14							
3/14/2017			13		1.3	20	29		17
3/15/2017				9				260	
3/17/2017									
4/11/2017									
4/24/2017	1.1	12							
4/25/2017			23		1.9	28	32	300	17
4/26/2017				8.1					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	1.1	18	24		4.8	26			
8/9/2017							30	350	15
8/10/2017				8.1					
10/10/2017	1.2	21							
10/11/2017			23		0.93	29	31	360	17
10/12/2017				8.6					
6/13/2018	1.1		11			25			
6/14/2018		12		7.7	0.94		29	260	15
9/24/2018		11							
9/27/2018	1.2								
9/28/2018			11						
10/2/2018						26			
10/3/2018					1.2		31		16
10/4/2018				8.5				250	
4/1/2019	1	12							
4/2/2019			20		1.1	25			15
4/3/2019									
4/4/2019				7.9			30	110	
9/16/2019	1.3					25			

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 8/9/2024 5:17 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)	WGWA-6 (bg)	WGWC-15	WGWC-16	WGWA-4 (bg)
9/17/2019		13	10						16
9/18/2019					1.5		31	62	
9/19/2019				7.5					
3/16/2020	1.1	10							
3/17/2020			10		0.82	26			15
3/18/2020				7.5			30	66	
3/19/2020									
5/4/2020									
9/21/2020		13							16
9/22/2020	1.2		19		0.89	25			
9/23/2020				7.7			32	43	
9/24/2020									
3/8/2021									
3/9/2021									
3/10/2021		11	7.7		0.89				16
3/11/2021	1.3			7.9		26		32	
3/12/2021							31		
4/7/2021									
4/8/2021									
8/23/2021		13							
8/24/2021	1.2				1.7	26			15
8/25/2021			16					27	
8/26/2021				7.6			31		
1/11/2022									
1/12/2022									
2/28/2022									14
3/1/2022	1.1	13				22			
3/3/2022			6.1	7.1	1.4		28	24	
3/4/2022									
6/6/2022									
6/7/2022									
8/15/2022	1.2	12				24			
8/16/2022			8.8		0.94				16
8/17/2022							29	20	
8/18/2022									
8/19/2022				7.3					
2/14/2023	1.4	12	5.7		1.3	29			
2/15/2023							31	26	18
2/16/2023				6.9					
8/15/2023									
8/18/2023	1.5	14	8.3		1.8	27		23	17
8/21/2023				8			32		
2/13/2024	1.3	12	4.6		11	27			17
2/14/2024									
2/15/2024				7.7			31	20	
2/16/2024									

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-3 (bg)	WGWC-17	WGWA-5 (bg)	WGWC-8	WGWC-9	WGWC-11	WGWC-12	WGWC-13	WGWC-19
5/17/2016									
5/18/2016	2.1	8.24	1.7						
5/19/2016				31.4	8.53	1.95	15.8	11.4	
7/19/2016			1.5						
7/20/2016	1.7	11		28	8.2	1.5	14	7.1	
9/13/2016	1.3								
9/14/2016		12	52		8.8	1.8	16	7.4	
9/15/2016				27					
11/9/2016									
11/10/2016	1.6	11						6.4	
11/11/2016						1.7	15		12
11/14/2016				32					
1/17/2017									
1/18/2017	1.7								
1/19/2017			13						
1/20/2017		10							
1/24/2017									
1/27/2017						3.5	16	6.2	
2/6/2017				41					11
2/8/2017									
2/9/2017					10				
2/23/2017									
3/13/2017									
3/14/2017	1.8	8.8	1.6						
3/15/2017				38	8.6	3.8	16	6.7	10
3/17/2017									
4/11/2017					8.6				11
4/24/2017									
4/25/2017	2	12	1.5						
4/26/2017				39	7.1	4	3	6.5	8.4
5/17/2017									
6/7/2017									9
7/11/2017									9.5
8/8/2017	2								
8/9/2017		11	1.3					7	
8/10/2017				53	7.5	3.5	15		8.8
10/10/2017									
10/11/2017	2.1	10	1.5						
10/12/2017				60	8.2	2.7	16	7	9.5
6/13/2018			1.2						
6/14/2018	2	6.2		52	7.5	2.2	13	5.5	8.9
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018	1.8		1.4						
10/4/2018		6.4		65	8	2	15	5.9	10
4/1/2019									
4/2/2019	1.8		1.1						11
4/3/2019				61	7.2	1.7	14	4.7	
4/4/2019		5.6							
9/16/2019			36						

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-3 (bg)	WGWC-17	WGWA-5 (bg)	WGWC-8	WGWC-9	WGWC-11	WGWC-12	WGWC-13	WGWC-19
9/17/2019									
9/18/2019	1.6	5.5						4.9	8.8
9/19/2019				57	8.1	1.4	14		
3/16/2020									
3/17/2020	1.7		1.4						
3/18/2020		6.3				1.6	14		
3/19/2020				79	9.3			5	
5/4/2020									15
9/21/2020	1.8								
9/22/2020			58	81					
9/23/2020		5.9			10		13		13
9/24/2020						5.2		1.4	
3/8/2021									
3/9/2021									
3/10/2021	1.9		1.3						
3/11/2021		5.7		83				4	15
3/12/2021					11	1.6	15		
4/7/2021									
4/8/2021									
8/23/2021									
8/24/2021			47						
8/25/2021	1.7	6				1.5	14	4	
8/26/2021				85	9.3				10
1/11/2022									
1/12/2022									
2/28/2022									
3/1/2022	1.6		2.1						
3/3/2022				88	8.6	1.3		3.4	12
3/4/2022		5.3					12		
6/6/2022									
6/7/2022									
8/15/2022			51						
8/16/2022	1.8	5.6		83		1.6			
8/17/2022					9				9.8
8/18/2022							13	3.5	
8/19/2022									
2/14/2023	2		1.3						
2/15/2023					11				
2/16/2023		6		92		1.7	12	3.8	13
8/15/2023									
8/18/2023	1.9		26	96					
8/21/2023		6.3			11	1.7	15	4.1	14
2/13/2024	1.7			91					
2/14/2024					9.1		13		
2/15/2024		6.2						3.7	14
2/16/2024			0.92			1.6			

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-25	WGWC-20	WGWC-24	WGWC-21	WGWC-23	WGWC-22
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 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-25	WGWC-20	WGWC-24	WGWC-21	WGWC-23	WGWC-22
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						
3/8/2021		14	90				
3/9/2021				65	66	3.2	15
3/10/2021							
3/11/2021	0.79						
3/12/2021							
4/7/2021				71	67	2.7	
4/8/2021		16	88				14
8/23/2021							
8/24/2021							
8/25/2021	0.7						
8/26/2021		16	120	69	51	4.6	24
1/11/2022		16		51	57	3.1	32
1/12/2022			220				
2/28/2022							
3/1/2022							
3/3/2022	0.65			42	54		
3/4/2022		16	200			4	31
6/6/2022				22	58	4.5	
6/7/2022		15	140				19
8/15/2022							
8/16/2022					55		
8/17/2022		15				4.6	
8/18/2022			110	16			
8/19/2022	0.64						18
2/14/2023							
2/15/2023		18		39		2.4	26
2/16/2023	0.69		190		68		
8/15/2023			150				
8/18/2023		28					
8/21/2023	0.7			18	63	4.2	16
2/13/2024			210				
2/14/2024				24			21
2/15/2024	0.66	29			73	2.5	
2/16/2024							

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 8/9/2024 5:17 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)	WGWA-6 (bg)	WGWC-15	WGWC-16	WGWA-4 (bg)
5/17/2016	3.8	2.5	6.05						
5/18/2016				1.45	2.06	1.58	4.59	217	1.45
5/19/2016									
7/19/2016	3.9	2.6	4		2.1	1.6	5.9	250	
7/20/2016				1.6					1.4
9/13/2016	3.6	2.4	3.1		2	1.4			1.4
9/14/2016				1.5			7.9	260	
9/15/2016									
11/9/2016	3.9	2.3	2.3			1.5			
11/10/2016					1.8		6.5	290	1.3
11/11/2016				1.5					
11/14/2016									
1/17/2017	3.8	2.3							
1/18/2017					1.8	1.5			1.3
1/19/2017			2						
1/20/2017									
1/24/2017							4.1	310	
1/27/2017									
2/6/2017				1.4					
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	3.4	2.2							
3/14/2017			1.9		1.8	2.5	4.4		1.2
3/15/2017				1.4				330	
3/17/2017									
4/11/2017									
4/24/2017	3.4	2.2							
4/25/2017			1.9		1.8	1.3	4	330	1.2
4/26/2017				1.3					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	3.6	2.3	2		1.9	1.4			
8/9/2017							3.6	330	1.2
8/10/2017				1.4					
10/10/2017	3.6	2.5							
10/11/2017			1.9		1.8	1.3	5	320	1.2
10/12/2017				1.3					
6/13/2018	3.8		2			1.4			
6/14/2018		2.3		1.3	1.7		4.3	290	1.2
9/24/2018		2.4							
9/27/2018	4								
9/28/2018			2.1						
10/2/2018						1.4			
10/3/2018					1.8		4.8		1.2
10/4/2018				1.3				290	
4/1/2019	4	2.4							
4/2/2019			2.6		1.9	1.5			1.2
4/3/2019									
4/4/2019				1.4			3.7	170	
9/16/2019	4					1.5			

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 8/9/2024 5:17 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)	WGWA-6 (bg)	WGWC-15	WGWC-16	WGWA-4 (bg)
9/17/2019		2.4	2						1.2
9/18/2019					2		3.2	100	
9/19/2019				1.5					
3/16/2020	4.3	2.7							
3/17/2020			2.3		2.2	1.7			1.4
3/18/2020				1.5			1.7	93	
3/19/2020									
5/4/2020									
9/21/2020		2.5							1.2
9/22/2020	4		2.1		1.8	1.4			
9/23/2020				1.3			1.5	58	
9/24/2020									
3/8/2021									
3/9/2021									
3/10/2021		2.6	1.9		1.9				1.2
3/11/2021	4.5			1.7		1.5		49	
3/12/2021							1.6		
4/7/2021									
4/8/2021									
8/23/2021		3.3							
8/24/2021	5.1				1.9	1.8			1.5
8/25/2021			2.3					45	
8/26/2021				1.6			1.4		
1/11/2022									
1/12/2022									
2/28/2022									1.2
3/1/2022	4.1	2.7				1.5			
3/3/2022			2	1.6	2.1		1.4	42	
3/4/2022									
6/6/2022									
6/7/2022									
8/15/2022	4	2.7				1.5			
8/16/2022			1.9		1.9				1.2
8/17/2022							1.2	35	
8/18/2022									
8/19/2022				1.4					
2/14/2023	3.9	2.6	1.9		1.8	1.5			
2/15/2023							1	42	1.2
2/16/2023				1.3					
8/17/2023									
8/22/2023	3.8	2.5	1.8		1.7	1.4		34	1.2
8/23/2023				1.3			0.95 (J)		
2/13/2024	3.5	2.4	1.7		1.6	1.4			1.1
2/14/2024									
2/15/2024				1.8			1.4	32	
2/16/2024									

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-3 (bg)	WGWC-17	WGWA-5 (bg)	WGWC-8	WGWC-9	WGWC-11	WGWC-12	WGWC-13	WGWC-19
5/17/2016									
5/18/2016	1.92	2.72	2.14						
5/19/2016				17.5	1.46	3.21	3.8	2.26	
7/19/2016			2.4						
7/20/2016	1.8	1.9		19	1.5	3.4	3.8	1.9	
9/13/2016	1.7								
9/14/2016		1.6	2.1		1.4	3.1	3.7	1.6	
9/15/2016				19					
11/9/2016									
11/10/2016	1.6	1.6						1.4	
11/11/2016						3.2	3.5		2.6
11/14/2016				25					
1/17/2017									
1/18/2017	1.7								
1/19/2017			1.8						
1/20/2017		1.5							
1/24/2017									
1/27/2017						3.4	3.1	1.4	
2/6/2017				33					2.6
2/8/2017									
2/9/2017					1.5				
2/23/2017									
3/13/2017									
3/14/2017	1.6	1.5	2						
3/15/2017				38	1.3	3.1	3.2	1.4	2.4
3/17/2017									
4/11/2017					1.2				2.3
4/24/2017									
4/25/2017	1.6	1.8	1.8						
4/26/2017				42	1.2	3.1	3.2	1.3	2.3
5/17/2017									
6/7/2017									2.5
7/11/2017									2.3
8/8/2017	1.7								
8/9/2017		1.4	1.9					1.4	
8/10/2017				48	1.3	3.1	3.4		2.5
10/10/2017									
10/11/2017	1.6	1.5	2.1						
10/12/2017				60	1.4	3	3.1	1.2	2.3
6/13/2018			1.7						
6/14/2018	1.6	1.5		58	1.2	3	3	1.2	2.4
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018	1.6		1.8						
10/4/2018		1.5		300	1.2	3.1	3.1	1.2	2.6
4/1/2019									
4/2/2019	1.7		1.7						2.5
4/3/2019				70	2	3.3	3	1.2	
4/4/2019		1.4							
9/16/2019			1.8						

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-3 (bg)	WGWC-17	WGWA-5 (bg)	WGWC-8	WGWC-9	WGWC-11	WGWC-12	WGWC-13	WGWC-19
9/17/2019									
9/18/2019	1.7	1.5						1.2	2.7
9/19/2019				70	1.5	3.2	3.2		
3/16/2020									
3/17/2020	1.8		1.6						
3/18/2020		1.5				3.2	3.2		
3/19/2020				98	2.1			1.3	
5/4/2020									2.8
9/21/2020	1.5								
9/22/2020			1.5	100					
9/23/2020		1.2			2.4		2.8		2.6
9/24/2020						1		1.6	
3/8/2021									
3/9/2021									
3/10/2021	1.8		1.8						
3/11/2021		1.3		110				1.2	2.9
3/12/2021					3.4	3.6	3.5		
4/7/2021									
4/8/2021									
8/23/2021									
8/24/2021			2.1						
8/25/2021	1.9	1.6				3.5	3.7	1.2	
8/26/2021				110	3.1				3.3
1/11/2022									
1/12/2022									
2/28/2022									
3/1/2022	1.8		1.5						
3/3/2022				130	3.5	3.6		1	3.2
3/4/2022		1.3					3.2		
6/6/2022									
6/7/2022									
8/15/2022			1.5						
8/16/2022	1.6	1.3		110		3.5			
8/17/2022					3.2				2.8
8/18/2022							3	0.98 (J)	
8/19/2022									
2/14/2023	1.6		1.3						
2/15/2023					3.9				
2/16/2023		1.2		120		3.3	2.9	0.97 (J)	2.6
8/17/2023									
8/22/2023	1.6		1.2	110	3.3				
8/23/2023		1.1				3.3	2.8	0.91 (J)	2.5
2/13/2024	1.5			88					
2/14/2024					3.2		2.8		
2/15/2024		1.6						1.3	3.5
2/16/2024			1.6			4.3			

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-25	WGWC-20	WGWC-24	WGWC-21	WGWC-23	WGWC-22
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 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-25	WGWC-20	WGWC-24	WGWC-21	WGWC-23	WGWC-22
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						
3/8/2021		74	70				
3/9/2021				110	58	3.5	2.9
3/10/2021							
3/11/2021	2.6						
3/12/2021							
4/7/2021				110	50	3.7	
4/8/2021		77	57				2.4
8/23/2021							
8/24/2021							
8/25/2021	2.8						
8/26/2021		79	130	100	47	3.3	4.2
1/11/2022		75		60	44	2.9	5.1
1/12/2022			350				
2/28/2022							
3/1/2022							
3/3/2022	2.4			50	45		
3/4/2022		79	330			2.9	5.3
6/6/2022				41	48	3.1	
6/7/2022		79	180				4.3
8/15/2022							
8/16/2022					41		
8/17/2022		77				3.2	
8/18/2022			140	27			
8/19/2022	2.1						4.2
2/14/2023							
2/15/2023		79		39		2.9	4.6
2/16/2023	1.9		230		51		
8/17/2023			190				
8/22/2023		35					
8/23/2023	1.8			22	47	2.9	3.9
2/13/2024			230				
2/14/2024				22			4.1
2/15/2024	2.5	12			59	3.5	
2/16/2024							

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-16	WGWC-17	WGWC-10	WGWA-7 (bg)	WGWA-6 (bg)	WGWA-5 (bg)
5/17/2016	0.0131 (J)	0.0538 (J)	0.284 (J)						
5/18/2016				0.1 (J)	0.121 (J)	0.206	0.018 (J)	0.106 (J)	0.014 (J)
5/19/2016									
7/19/2016	<0.2	<0.2	0.21	0.14 (J)			<0.2	0.11 (J)	<0.2
7/20/2016					0.16 (J)	0.23			
9/13/2016	<0.2	<0.2	0.15 (J)				<0.2	0.11 (J)	
9/14/2016				0.18 (J)	0.19 (J)	0.17 (J)			0.095 (J)
9/15/2016									
11/9/2016	<0.2	0.085 (J)	<0.2					0.1 (J)	
11/10/2016				0.11 (J)	0.15 (J)		<0.2		
11/11/2016						0.14 (J)			
11/14/2016									
1/17/2017	<0.2	<0.2							
1/18/2017							<0.2	0.11 (J)	
1/19/2017			0.087 (J)						<0.2
1/20/2017					0.18 (J)				
1/24/2017				0.15 (J)					
1/27/2017									
2/6/2017						0.15 (J)			
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<0.2	<0.2							
3/14/2017			<0.2		0.11 (J)		<0.2	<0.2	<0.2
3/15/2017				0.1 (J)		0.16 (J)			
3/17/2017									
4/11/2017									
4/24/2017	<0.2	<0.2							
4/25/2017			<0.2	0.13 (J)	0.13 (J)		<0.2	<0.2	<0.2
4/26/2017						0.17 (J)			
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<0.2	<0.2	0.087 (J)				<0.2	0.099 (J)	
8/9/2017				0.18 (J)	0.19 (J)				<0.2
8/10/2017						0.2			
10/10/2017	<0.2	0.18 (J)							
10/11/2017			0.09 (J)	<0.2	0.14 (J)		<0.2	0.098 (J)	<0.2
10/12/2017						0.14 (J)			
3/27/2018	<0.2	<0.2							
3/28/2018			0.11 (J)				<0.2	0.088 (J)	<0.2
3/29/2018				0.13 (J)					
3/30/2018					0.095 (J)	0.13 (J)			
6/13/2018	<0.2		0.085 (J)					0.093 (J)	<0.2
6/14/2018		<0.2		<0.2	0.11 (J)	0.15 (J)	<0.2		
9/24/2018		<0.2							
9/27/2018	<0.2								
9/28/2018			0.082 (J)						
10/2/2018								0.13 (J)	
10/3/2018							<0.2		<0.2
10/4/2018				0.85 (J)	0.11 (J)	0.18 (J)			
2/25/2019	<0.2	0.032 (J)							

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-16	WGWC-17	WGWC-10	WGWA-7 (bg)	WGWA-6 (bg)	WGWA-5 (bg)
2/26/2019			0.23		0.068 (J)		<0.2	0.074 (J)	<0.2
2/27/2019				0.47		0.21			
2/28/2019									
4/1/2019	<0.2	0.061 (J)							
4/2/2019			0.21				<0.2	0.09 (J)	<0.2
4/3/2019									
4/4/2019				0.08 (J)	0.087 (J)	0.13 (J)			
9/16/2019	0.03 (J)							0.1 (J)	<0.2
9/17/2019		0.061 (J)	0.079 (J)						
9/18/2019				0.058 (J)	0.066 (J)		0.027 (J)		
9/19/2019						0.13 (J)			
2/3/2020	0.032 (J)	0.061 (J)							
2/4/2020								0.13	<0.2
2/5/2020			0.12			0.14	0.026 (J)		
2/7/2020				0.072 (J)	0.079 (J)				
3/16/2020	0.042 (J)	0.052 (J)							
3/17/2020			<0.2				0.044 (J)	0.037 (J)	<0.2
3/18/2020				0.084 (J)	<0.2	0.052 (J)			
3/19/2020									
5/4/2020									
9/21/2020		0.037 (J)							
9/22/2020	<0.2		0.1				<0.2	0.068 (J)	<0.2
9/23/2020				0.049 (J)	0.05 (J)	0.09 (J)			
9/24/2020									
2/2/2021	0.028 (J)	0.065 (J)	0.071 (J)				<0.2		
2/3/2021								0.088 (J)	<0.2
2/4/2021				0.052 (J)	0.064 (J)	0.12			
3/8/2021									
3/9/2021									
3/10/2021		0.045 (J)	0.046 (J)				<0.2		<0.2
3/11/2021	<0.2			0.061 (J)	0.05 (J)	0.15		0.092 (J)	
3/12/2021									
4/7/2021									
4/8/2021									
8/23/2021		0.097 (J)							
8/24/2021	0.062 (J)						0.054 (J)	0.16	0.073 (J)
8/25/2021			0.13	0.099 (J)	0.093 (J)				
8/26/2021						0.16			
1/11/2022									
1/12/2022									
2/28/2022									
3/1/2022	<0.2	0.058 (J)						0.063 (J)	<0.2
3/3/2022			0.078 (J)	0.067 (J)		0.067 (J)	0.038 (J)		
3/4/2022					0.06 (J)				
6/6/2022									
6/7/2022									
8/15/2022	<0.2	0.057 (J)						0.093 (J)	<0.2
8/16/2022			0.06 (J)		0.06 (J)		<0.2		
8/17/2022				0.062 (J)					
8/18/2022									
8/19/2022						0.1			
2/14/2023	<0.2	0.07 (J)	0.053 (J)				<0.2	0.11	<0.2

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-16	WGWC-17	WGWC-10	WGWA-7 (bg)	WGWA-6 (bg)	WGWA-5 (bg)
2/15/2023				0.076 (J)					
2/16/2023					0.069 (J)	0.11			
8/17/2023									
8/22/2023	<0.2	0.061 (J)	0.051 (J)	0.065 (J)			<0.2	0.12	<0.2
8/23/2023					0.064 (J)	0.1			
2/13/2024	<0.2	<0.2	0.076 (J)				<0.2	0.07 (J)	
2/14/2024									
2/15/2024				<0.2	<0.2	<0.2			
2/16/2024									<0.2

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-15	WGWC-12	WGWC-13	WGWC-8	WGWC-11	WGWC-9	WGWC-19
5/17/2016									
5/18/2016	0.164 (J)	0.029 (J)	0.779						
5/19/2016				0.12 (J)	0.384	0.304	0.039 (J)	1.58	
7/19/2016			0.97						
7/20/2016	0.17 (J)	<0.2		0.11 (J)	0.34	0.27	<0.2	2	
9/13/2016	0.15 (J)	<0.2							
9/14/2016			0.89	0.095 (J)	0.31		<0.2	1.8	
9/15/2016						0.24			
11/9/2016									
11/10/2016	0.12 (J)	<0.2	0.88		0.26				
11/11/2016				<0.2			<0.2		0.32
11/14/2016						0.2			
1/17/2017									
1/18/2017	0.15 (J)	<0.2							
1/19/2017									
1/20/2017									
1/24/2017			0.92						
1/27/2017				<0.2	0.28		<0.2		
2/6/2017						0.27			0.45
2/8/2017									
2/9/2017								1.3	
2/23/2017									
3/13/2017									
3/14/2017	0.13 (J)	<0.2	0.77						
3/15/2017				<0.2	0.3	0.25	<0.2	1.3	0.37
3/17/2017									
4/11/2017								1.4	0.37
4/24/2017									
4/25/2017	0.12 (J)	<0.2	0.95						
4/26/2017				<0.2	0.33	0.31	<0.2	1.5	0.4
5/17/2017									
6/7/2017									0.35
7/11/2017									0.39
8/8/2017		<0.2							
8/9/2017	0.14 (J)		0.91		0.32				
8/10/2017				0.11 (J)		0.37	<0.2	1.6	0.42
10/10/2017									
10/11/2017	0.14 (J)	<0.2	0.88						
10/12/2017				0.091 (J)	0.28	0.35	<0.2	1.5	0.36
3/27/2018									
3/28/2018	0.12 (J)	<0.2							
3/29/2018				0.089 (J)	0.27	0.36	<0.2	1.4	0.34
3/30/2018			0.79						
6/13/2018									
6/14/2018	0.12 (J)	<0.2	0.79	0.1 (J)	0.27	0.56	<0.2	1.4	0.35
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018	0.13 (J)	<0.2	0.79						
10/4/2018				0.12 (J)	0.23	0.27	<0.2	1.4	0.35
2/25/2019									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-15	WGWC-12	WGWC-13	WGWC-8	WGWC-11	WGWC-9	WGWC-19
2/26/2019	0.14 (J)	<0.2							
2/27/2019			0.81	0.06 (J)	0.25	0.054 (J)	0.047 (J)		
2/28/2019								1.4	0.28
4/1/2019									
4/2/2019	0.14 (J)	0.039 (J)							0.33
4/3/2019				0.084 (J)	0.24	0.5	0.048 (J)	1.3	
4/4/2019			0.78						
9/16/2019									
9/17/2019	0.14 (J)								
9/18/2019		0.033 (J)	0.81		0.22				0.32
9/19/2019				0.093 (J)		0.42	0.037 (J)	1.3	
2/3/2020									
2/4/2020	0.13	0.031 (J)							
2/5/2020				0.098 (J)	0.2		0.045 (J)	1.3	
2/7/2020			0.79			0.25			0.35
3/16/2020									
3/17/2020	0.11	0.04 (J)							
3/18/2020			0.71	0.033 (J)			<0.2		
3/19/2020					0.15	0.057 (J)		1	
5/4/2020									0.36
9/21/2020	0.091 (J)	<0.2							
9/22/2020						0.14			
9/23/2020			0.63	0.064 (J)				0.82	0.25
9/24/2020					<0.2		0.18		
2/2/2021	0.15	0.035 (J)							
2/3/2021				0.082 (J)		0.15	0.027 (J)		0.3
2/4/2021			0.69		0.16			0.91	
3/8/2021									
3/9/2021									
3/10/2021	0.12	<0.2							
3/11/2021					0.18	0.16			0.31
3/12/2021			0.88	0.096 (J)			0.044 (J)	0.98	
4/7/2021									
4/8/2021									
8/23/2021									
8/24/2021	0.17								
8/25/2021		0.077 (J)		0.14	0.2		0.056 (J)		
8/26/2021			0.77			0.21		1	0.38
1/11/2022									
1/12/2022									
2/28/2022	0.083 (J)								
3/1/2022		<0.2							
3/3/2022			0.88		0.21	0.19	0.055 (J)	1	0.4
3/4/2022				0.068 (J)					
6/6/2022									
6/7/2022									
8/15/2022									
8/16/2022	0.12	<0.2				0.21	<0.2		
8/17/2022			0.68					0.9	0.28
8/18/2022				0.073 (J)	0.14				
8/19/2022									
2/14/2023		0.041 (J)							

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-15	WGWC-12	WGWC-13	WGWC-8	WGWC-11	WGWC-9	WGWC-19
2/15/2023	0.14		0.73					0.85	
2/16/2023				0.089 (J)	0.15	0.14	0.041 (J)		0.33
8/17/2023									
8/22/2023	0.14	0.04 (J)				0.15 (J)		0.9	
8/23/2023			0.73	0.083 (J)	0.13		0.041 (J)		0.34
2/13/2024	0.087 (J)	<0.2				<0.2			
2/14/2024				0.044 (J)				0.73	
2/15/2024			0.89		0.21 (J)				0.4
2/16/2024							<0.2		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-25	WGWC-20	WGWC-23	WGWC-24	WGWC-22	WGWC-21
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	<0.2						
2/9/2017							
2/23/2017	<0.2						
3/13/2017							
3/14/2017							
3/15/2017							
3/17/2017	<0.2						
4/11/2017	<0.2						
4/24/2017							
4/25/2017							
4/26/2017	<0.2						
5/17/2017	<0.2						
6/7/2017	<0.2						
7/11/2017	<0.2						
8/8/2017							
8/9/2017							
8/10/2017							
10/10/2017							
10/11/2017	<0.2						
10/12/2017							
3/27/2018							
3/28/2018							
3/29/2018	<0.2						
3/30/2018							
6/13/2018							
6/14/2018	<0.2						
9/24/2018							
9/27/2018							
9/28/2018							
10/2/2018							
10/3/2018							
10/4/2018	<0.2						
2/25/2019							

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-25	WGWC-20	WGWC-23	WGWC-24	WGWC-22	WGWC-21
2/26/2019							
2/27/2019	<0.2						
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	<0.2						
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)						
3/8/2021		<0.2	1.8				
3/9/2021				0.092 (J)	1	1.1	1.7
3/10/2021							
3/11/2021	0.04 (J)						
3/12/2021							
4/7/2021				0.093 (J)	1.1		1.6
4/8/2021		0.028 (J)	1.7			1.4	
8/23/2021							
8/24/2021							
8/25/2021	0.071 (J)						
8/26/2021		0.047 (J)	2	0.081 (J)	1.2	0.51	2
1/11/2022		0.028 (J)		0.045 (J)	1	0.45	1.9
1/12/2022			1.8				
2/28/2022							
3/1/2022							
3/3/2022	0.057 (J)				0.71		1.8
3/4/2022		0.038 (J)	2	0.045 (J)		0.42	
6/6/2022				0.028 (J)	0.43		1.9
6/7/2022		<0.2	2.5			0.37	
8/15/2022							
8/16/2022							1.8
8/17/2022		<0.2		0.043 (J)			
8/18/2022			2		0.24		
8/19/2022	<0.2					0.31	
2/14/2023							

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-25	WGWC-20	WGWC-23	WGWC-24	WGWC-22	WGWC-21
2/15/2023		<0.2		0.048 (J)	0.63	0.31	
2/16/2023	<0.2		1.9				1.9
8/17/2023			2.1				
8/22/2023		0.049 (J)					
8/23/2023	0.04 (J)			0.045 (J)	0.28	0.32	1.8
2/13/2024			<0.2				
2/14/2024					<0.2	0.23	
2/15/2024	<0.2	<0.2		<0.2			2.2
2/16/2024							

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-16	WGWC-17	WGWC-10	WGWA-7 (bg)	WGWA-6 (bg)	WGWA-5 (bg)
5/17/2016	5.24	6.23	7.81						
5/18/2016				6.06	6.41	8.96	5.5	7.92	5.47
5/19/2016									
7/18/2016	5.434038			5.884339					
7/19/2016		6.285413					5.43	7.154587	5.336672
7/20/2016					6.662463	8.56774			
9/1/2016									
9/13/2016	5.22	6.3	7.18				5.57	7.96	
9/14/2016				5.89	6.7				7.29
9/15/2016									
11/9/2016	5.57	6.26	6.03					7.27	
11/10/2016				5.6	6.51		6.93		
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						6.59
1/20/2017					6.55				
1/24/2017				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		6.27		5.82		5.86
3/15/2017				5.39		6.82			
3/17/2017									
4/11/2017									
4/24/2017	5.4	6.35							
4/25/2017			6.93	5.28	6.26		5.57	7.73	5.35
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				5.46	6.47				5.25
8/10/2017						6.66			
8/25/2017									5.44
10/10/2017	5.26	6.32							
10/11/2017			6.75	5.45	6.47		5.43	7.71	6.99
10/12/2017						6.67			
3/27/2018	5.39	6.14							
3/28/2018			6.84				5.29	7.28	5.95
3/29/2018				5.33					
3/30/2018					6.71	6.98			
6/13/2018	5.33		6.31					7.78	5.13
6/14/2018		6.02		5.35	6.15	6.56	5.39		
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		5.22

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-16	WGWC-17	WGWC-10	WGWA-7 (bg)	WGWA-6 (bg)	WGWA-5 (bg)
10/4/2018				5.28	6.14	6.4			
2/25/2019	5.25	6.02							
2/26/2019			7.66		6.17		5.62	7.87	5.21
2/27/2019				5.08		6.23			
2/28/2019									
4/1/2019	5.31	6.09							
4/2/2019			7.53				5.6	7.94	5.25
4/3/2019									
4/4/2019				5.19	6.16	6.46			
9/16/2019	5.28							7.55	6.94
9/17/2019		6.25	6.47						
9/18/2019				5.19	6.17		5.6		
9/19/2019						6.45			
2/3/2020	5.4	6.09							
2/4/2020								7.74	5.31
2/5/2020			6.73			6.42	5.54		
2/7/2020				5.17	6.34				
3/16/2020	5.29	6.01							
3/17/2020			6.36				5.32	7.96	5.34
3/18/2020				5.08	6.28	6.4			
3/19/2020									
5/4/2020									
9/21/2020		6.05							
9/22/2020	5.09		7.18				5.36	7.4	6.78
9/23/2020				5.05	5.89	6.14			
9/24/2020									
2/2/2021	5.36	6.1	6.48				5.84		
2/3/2021								7.76	5.3
2/4/2021				5.42	6.31	6.21			
3/8/2021									
3/9/2021									
3/10/2021		6.11	5.8				4.96		5.22
3/11/2021	5.26			5.21	5.96	6.56		7.93	
3/12/2021									
4/7/2021									
4/8/2021									
8/23/2021		6.18							
8/24/2021	5.21						5.53	7.88	6.8
8/25/2021			6.74	5.25	6.09				
8/26/2021						6.31			
1/11/2022									
1/12/2022									
2/28/2022									
3/1/2022	5.32	6.2						7.86	5.47
3/3/2022			5.94	5.22		6.36	5.49		
3/4/2022					6.21				
6/6/2022									
6/7/2022									
8/15/2022	5.28	6.04						7.76	6.54
8/16/2022			6.19		6.02		5.32		
8/17/2022				5.24					
8/18/2022									

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-1 (bg)	WGWA-2 (bg)	WGWA-18 (bg)	WGWC-16	WGWC-17	WGWC-10	WGWA-7 (bg)	WGWA-6 (bg)	WGWA-5 (bg)
8/19/2022						6.2			
2/14/2023	5.37	6.06	5.89				5.44	7.78	5.3
2/15/2023				5.19					
2/16/2023					6.28	6.39			
8/11/2023									
8/14/2023	5.09	6.06							
8/15/2023			6.01	5.07			5.49	7.93	6.6
8/16/2023					6.13				
8/17/2023						6.49			
2/13/2024	5.46	5.97	5.84				6.19	7.75	
2/14/2024									
2/15/2024				5.31	6.16	6.41			
2/16/2024									5.23

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-15	WGWC-13	WGWC-12	WGWC-8	WGWC-9	WGWC-11	WGWC-19
5/17/2016									
5/18/2016	7.23	5.55	7.75						
5/19/2016				6.85	6.91	5.99	6.31	5.93	
7/18/2016								5.9661	
7/19/2016			7.876073						
7/20/2016	7.281557	5.656628		6.705264	6.962608	6.194334	6.345061		
9/1/2016					6.96				
9/13/2016	7.15	5.63							
9/14/2016			7.79	6.7			6.33		
9/15/2016						6.38			
11/9/2016									
11/10/2016	6.33	5.61	7.76	6.5					
11/11/2016					6.76			6.03	6.93
11/14/2016						5.7			
1/17/2017									
1/18/2017	6.94	5.81							
1/19/2017									
1/20/2017									
1/24/2017			7.71						
1/27/2017				6.47	6.66			6.21	
2/6/2017						5.66			6.8
2/8/2017									
2/23/2017									
3/13/2017									
3/14/2017	6.75	5.53	7.57						
3/15/2017				6.75	6.3	5.77	5.99	5.97	6.78
3/17/2017									
4/11/2017									6.79
4/24/2017									
4/25/2017	6.84	5.59	7.47						
4/26/2017				6.57	6.67	5.39	6.03	6.17	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		7.37	6.55					
8/10/2017					6.7	5.59	5.86	6.05	6.59
8/25/2017									
10/10/2017									
10/11/2017	6.75	5.51	7.42						
10/12/2017				6.67	6.89	5.46	6.09	6.89	6.7
3/27/2018									
3/28/2018	6.79	5.6							
3/29/2018				6.99	7.08	5.43	5.89	6.85	6.88
3/30/2018			7.48						
6/13/2018									
6/14/2018	6.67	5.58	7.5	6.39	6.73	5.76	6.47	5.89	6.72
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018	6.92	5.45	7.11						

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-15	WGWC-13	WGWC-12	WGWC-8	WGWC-9	WGWC-11	WGWC-19
10/4/2018				6.5	6.79	5.39	6.17	5.81	6.67
2/25/2019									
2/26/2019	6.74	5.6							
2/27/2019			7.4	6.47	6.7			5.78	
2/28/2019							6.045 (D)		6.98
4/1/2019									
4/2/2019	6.81	5.69							6.75
4/3/2019				6.47	6.91	5.55	6.1	6.07	
4/4/2019			7.58						
9/16/2019									
9/17/2019	6.93								
9/18/2019		5.62	7.8	6.46					6.71
9/19/2019					6.63	5.39	6.38	5.82	
2/3/2020									
2/4/2020	7.29	5.66							
2/5/2020				6.44	6.76		6.54	5.89	
2/7/2020			7.66			5.38			7.08
3/16/2020									
3/17/2020	6.83	5.61							
3/18/2020			7.73		6.94			5.89	
3/19/2020				6.56		6.43	6.64		
5/4/2020									6.9
9/21/2020	6.81	5.35							
9/22/2020						5.17			
9/23/2020			7.35		6.42		5.8		6.59
9/24/2020				6.29				5.5	
2/2/2021	6.61	5.78							
2/3/2021					6.15	5.08		5.21	6.75
2/4/2021			7.77	6.34			6.22		
3/8/2021									
3/9/2021									
3/10/2021	7.19	5.49							
3/11/2021				5.95		5.35			7.12
3/12/2021			7.72		6.66		5.88	5.46	
4/7/2021									
4/8/2021									
8/23/2021									
8/24/2021	7.22								
8/25/2021		5.52		6.27	6.69			5.66	
8/26/2021			7.58			5.36	5.84		6.66
1/11/2022									
1/12/2022									
2/28/2022	7.14								
3/1/2022		5.59							
3/3/2022			7.61	6.31		5.21	5.86	5.59	6.69
3/4/2022					6.79				
6/6/2022									
6/7/2022									
8/15/2022									
8/16/2022	6.92	5.46				5.4		5.56	
8/17/2022			7.54				5.8		6.6
8/18/2022				6.15	6.52				

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-4 (bg)	WGWA-3 (bg)	WGWC-15	WGWC-13	WGWC-12	WGWC-8	WGWC-9	WGWC-11	WGWC-19
8/19/2022									
2/14/2023		5.49							
2/15/2023	7.21		7.72				5.86		
2/16/2023				6.27	6.61	5.22		5.69	6.8
8/11/2023									
8/14/2023									
8/15/2023	6.47	5.34				5.43			
8/16/2023			7.41	6.22	6.1		5.78	5.17	6.44
8/17/2023									
2/13/2024	7.1	5.52				5.31			
2/14/2024					6.67		6.13		
2/15/2024			7.88	6.3					6.87
2/16/2024								5.6	

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-24	WGWC-23	WGWC-22	WGWC-21
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 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-24	WGWC-23	WGWC-22	WGWC-21
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						
3/8/2021		5.54	5.36				
3/9/2021				4.29	5.81	5.56	7.29
3/10/2021							
3/11/2021	5.1						
3/12/2021							
4/7/2021				4.43	5.57		7.05
4/8/2021		5.6	5.39			6.01	
8/23/2021							
8/24/2021							
8/25/2021	5.39						
8/26/2021		5.37	5.3	4.33	5.8	5.4	6.88
1/11/2022			5.26	4.39	5.61	5.4	6.68
1/12/2022		5.19					
2/28/2022							
3/1/2022							
3/3/2022	5.4			4.39			6.88
3/4/2022		5.23	5.21		5.74	5.34	
6/6/2022				4.52	5.73		6.69
6/7/2022		5.39	5.32			5.41	
8/15/2022							
8/16/2022							6.72
8/17/2022			5.28		5.64		
8/18/2022		5.29		4.42			

Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-20	WGWC-25	WGWC-24	WGWC-23	WGWC-22	WGWC-21
8/19/2022	5.25					5.34	
2/14/2023							
2/15/2023			5.36	4.54	5.49	5.47	
2/16/2023	5.4	5.17					6.92
8/11/2023		5.31					
8/14/2023							
8/15/2023			5.97				
8/16/2023	5.17						
8/17/2023				4.37	5.66	5.41	6.91
2/13/2024		5.34					
2/14/2024				4.72		5.84	
2/15/2024	5.18		6.24		5.62		6.7
2/16/2024							

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 8/9/2024 5:17 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)	WGWA-6 (bg)	WGWC-15	WGWC-16	WGWA-4 (bg)
5/17/2016	<1	1.14	19.9						
5/18/2016				2.84	0.368 (J)	8.88	50.7	388	5.32
5/19/2016									
7/19/2016	<1	1.4	14		<1	9	62	460	
7/20/2016				2.8					6.5
9/13/2016	<1	1.1	11		<1	8.5			5.6
9/14/2016				2.8			79	500	
9/15/2016									
11/9/2016	<1	1.1	6.3			8.2			
11/10/2016					<1		61	530	5.4
11/11/2016				2.6					
11/14/2016									
1/17/2017	<1	2.1							
1/18/2017					1.4	9.4			5.1
1/19/2017			7.4						
1/20/2017									
1/24/2017							34	600	
1/27/2017									
2/6/2017				2.7					
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<1	0.97 (J)							
3/14/2017			10		<1	2	43		4.6
3/15/2017				2.7				610	
3/17/2017									
4/11/2017									
4/24/2017	<1	0.75 (J)							
4/25/2017			10		<1	8.2	39	620	6.6
4/26/2017				2.5					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<1	1.1	12		<1	8.5			
8/9/2017							35	780	7.3
8/10/2017				2.2					
10/10/2017	<1	1.3							
10/11/2017			11		<1	8.3	48	720	6.8
10/12/2017				1.9					
6/13/2018	<1		8.2			8.3			
6/14/2018		0.84 (J)		2	<1		44	620	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					<1		49		7
10/4/2018				1.9				560	
4/1/2019	<1	1							
4/2/2019			11		0.4 (J)	8.5			8.1
4/3/2019									
4/4/2019				2.2			41	250	
9/16/2019	0.49 (J)					8.9			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 8/9/2024 5:17 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)	WGWA-6 (bg)	WGWC-15	WGWC-16	WGWA-4 (bg)
9/17/2019		1.3	8						8.1
9/18/2019					<1		37	130	
9/19/2019				2.1					
3/16/2020	0.42 (J)	1.3							
3/17/2020			8.5		0.86 (J)	12			12
3/18/2020				2.1			17	120	
3/19/2020									
5/4/2020									
9/21/2020		1.1							7.7
9/22/2020	<1		9		0.38 (J)	8			
9/23/2020				1.8			21	85	
9/24/2020									
3/8/2021									
3/9/2021									
3/10/2021		0.9 (J)	7.1		<1				8.1
3/11/2021	<1			2.8		8.4		64	
3/12/2021							19		
4/7/2021									
4/8/2021									
8/23/2021		1.3							
8/24/2021	<1				<1	8.9			7.9
8/25/2021			8.2					63	
8/26/2021				1.8			16		
1/11/2022									
1/12/2022									
2/28/2022									8.4
3/1/2022	<1	1.6				9.2			
3/3/2022			8.5	2	<1		18	57	
3/4/2022									
6/6/2022									
6/7/2022									
8/15/2022	<1	0.54 (J)				7.5			
8/16/2022			7.2		<1				6.9
8/17/2022							14	49	
8/18/2022									
8/19/2022				1.6					
2/14/2023	<1	0.66 (J)	7.3		<1	7.9			
2/15/2023							14	54	7.8
2/16/2023				1.8					
8/17/2023									
8/22/2023	<1	0.74 (J)	6.8		0.45 (J)	7.3		52	7.4
8/23/2023				1.7			13		
2/13/2024	<1	0.64 (J)	5.1		0.56 (J)	6.7			6.2
2/14/2024									
2/15/2024				3.2			16	50	
2/16/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-3 (bg)	WGWC-17	WGWA-5 (bg)	WGWC-8	WGWC-9	WGWC-11	WGWC-12	WGWC-13	WGWC-19
5/17/2016									
5/18/2016	0.821 (J)	32.1	0.955 (J)						
5/19/2016				146	35.9	1.83	15.8	19.2	
7/19/2016			0.76 (J)						
7/20/2016	0.82 (J)	9.7		150	37	1.6	16	11	
9/13/2016	0.81 (J)								
9/14/2016		6.6	3.4		39	1.5	16	8.6	
9/15/2016				140					
11/9/2016									
11/10/2016	0.73 (J)	5.2						5.7	
11/11/2016						1.4	14		3.4
11/14/2016				160					
1/17/2017									
1/18/2017	0.99 (J)								
1/19/2017			21						
1/20/2017		5.3							
1/24/2017									
1/27/2017						2.5	15	6.8	
2/6/2017				180					3.7
2/8/2017									
2/9/2017					60				
2/23/2017									
3/13/2017									
3/14/2017	0.83 (J)	9.6	1.4						
3/15/2017				170	44	2.5	17	11	3.6
3/17/2017									
4/11/2017					36				3.2
4/24/2017									
4/25/2017	0.7 (J)	20	0.89 (J)						
4/26/2017				180	37	2.2	15	8.1	3.3
5/17/2017									
6/7/2017									3.8
7/11/2017									3.3
8/8/2017	0.82 (J)								
8/9/2017		6.5	0.75 (J)					8.1	
8/10/2017				180	38	2.3	16		3.7
10/10/2017									
10/11/2017	0.72 (J)	13	<1						
10/12/2017				180	37	1.9	14	6.1	3.6
6/13/2018			<1						
6/14/2018	<1	16		170	37	1.7	14	5	3.5
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018	0.73 (J)		<1						
10/4/2018		15		780	38	1.6	14	4.3	4.6
4/1/2019									
4/2/2019	1.1		0.94 (J)						3.8
4/3/2019				180	41	1.9	13	3.8	
4/4/2019		9.1							
9/16/2019			2.2						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-3 (bg)	WGWC-17	WGWA-5 (bg)	WGWC-8	WGWC-9	WGWC-11	WGWC-12	WGWC-13	WGWC-19
9/17/2019									
9/18/2019	0.78 (J)	7.3						3.9	3.6
9/19/2019				190	42	1.3	14		
3/16/2020									
3/17/2020	1.2		4						
3/18/2020		4.2				1.6	12		
3/19/2020				200	45			4	
5/4/2020									4.5
9/21/2020	0.77 (J)								
9/22/2020			1.5	200					
9/23/2020		4.4			54		12		3
9/24/2020						2.7		0.63 (J)	
3/8/2021									
3/9/2021									
3/10/2021	0.91 (J)		<1						
3/11/2021		3.9		220				2.9	4
3/12/2021					62	2	14		
4/7/2021									
4/8/2021									
8/23/2021									
8/24/2021			2.8						
8/25/2021	0.79 (J)	3.3				1.1	13	1.8	
8/26/2021				220	52				3.5
1/11/2022									
1/12/2022									
2/28/2022									
3/1/2022	0.98 (J)		0.99 (J)						
3/3/2022				250	58	2.3		3	4.8
3/4/2022		3.6					14		
6/6/2022									
6/7/2022									
8/15/2022			1.6						
8/16/2022	0.52 (J)	3.4		220		0.98 (J)			
8/17/2022					50				2.8
8/18/2022							11	1.7	
8/19/2022									
2/14/2023	0.65 (J)		0.66 (J)						
2/15/2023					65				
2/16/2023		2.6		250		1	2.8	2.3	3
8/17/2023									
8/22/2023	0.71 (J)		1.2	240	50				
8/23/2023		2.6				1	12	2.1	2.6
2/13/2024	0.68 (J)			190					
2/14/2024					37		8.8		
2/15/2024		5.4						4.3	5.7
2/16/2024			1.5			2.1			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-25	WGWC-20	WGWC-24	WGWC-21	WGWC-23	WGWC-22
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 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-25	WGWC-20	WGWC-24	WGWC-21	WGWC-23	WGWC-22
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						
3/8/2021		4.7	240				
3/9/2021				140	230	14	80
3/10/2021							
3/11/2021	1.7						
3/12/2021							
4/7/2021				160	190	5.1	
4/8/2021		5.8	240				60
8/23/2021							
8/24/2021							
8/25/2021	<1						
8/26/2021		13	290	170	190	7.5	100
1/11/2022		21		160	260	5.3	140
1/12/2022			360				
2/28/2022							
3/1/2022							
3/3/2022	1.3			130	250		
3/4/2022		21	390			5	150
6/6/2022				67	140	5.3	
6/7/2022		22	280				96
8/15/2022							
8/16/2022					240		
8/17/2022		25				5.5	
8/18/2022			280	49			
8/19/2022	<1						87
2/14/2023							
2/15/2023		27		120		5.2	110
2/16/2023	0.47 (J)		350		340		
8/17/2023			330				
8/22/2023		19					
8/23/2023	0.52 (J)			50	310	4.9	71
2/13/2024			280				
2/14/2024				55			64
2/15/2024	1.2	21			420	8.7	
2/16/2024							

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 8/9/2024 5:17 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)	WGWA-6 (bg)	WGWC-15	WGWC-16	WGWA-4 (bg)
5/17/2016	<10	100	112						
5/18/2016				70	31	113	190	1080	101
5/19/2016									
7/19/2016	14	84	80		<10	92	180	1200	
7/20/2016				42					86
9/13/2016	50	70	120		<10	100			28
9/14/2016				40			230	1300	
9/15/2016									
11/9/2016	22	110	76			130			
11/10/2016					44		210	1400	110
11/11/2016				72					
11/14/2016									
1/17/2017	8	120							
1/18/2017					50	120			98
1/19/2017			36						
1/20/2017									
1/24/2017							140	1300	
1/27/2017									
2/6/2017				24					
2/8/2017									
2/9/2017									
2/23/2017									
3/13/2017	<10	58							
3/14/2017			70		26	110	220		110
3/15/2017				78				1500	
3/17/2017									
4/11/2017									
4/24/2017	10	94							
4/25/2017			70		10	100	180	1700	86
4/26/2017				48					
5/17/2017									
6/7/2017									
7/11/2017									
8/8/2017	<10	62	72		<10	90			
8/9/2017							180	1900	92
8/10/2017				38					
10/10/2017	44	140							
10/11/2017			90		42	98	200	1900	110
10/12/2017				72					
6/13/2018	24		38			110			
6/14/2018		80		40	14		170	1500	92
9/24/2018		76							
9/27/2018	28								
9/28/2018			68						
10/2/2018						130			
10/3/2018					6		260		100
10/4/2018				60				1700	
4/1/2019	<10	63							
4/2/2019			100		15	110			100
4/3/2019									
4/4/2019				30			170	710	
9/16/2019	27					110			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 8/9/2024 5:17 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)	WGWA-6 (bg)	WGWC-15	WGWC-16	WGWA-4 (bg)
9/17/2019		120	76						120
9/18/2019					35		160	520	
9/19/2019				52					
3/16/2020	23	90							
3/17/2020			81		19	120			100
3/18/2020				58			160	370	
3/19/2020									
5/4/2020									
9/21/2020		100							92
9/22/2020	24		96		15	130			
9/23/2020				50			150	250	
9/24/2020									
3/8/2021									
3/9/2021									
3/10/2021		100	72		20				100
3/11/2021	24			52		110		190	
3/12/2021							130		
4/7/2021									
4/8/2021									
8/23/2021		110							
8/24/2021	32				24	120			110
8/25/2021			92					220	
8/26/2021				60			150		
1/11/2022									
1/12/2022									
2/28/2022									95
3/1/2022	30	92				140			
3/3/2022			43	45	17		140	170	
3/4/2022									
6/6/2022									
6/7/2022									
8/15/2022	45	100				120			
8/16/2022			60		22				110
8/17/2022							140	170	
8/18/2022									
8/19/2022				63					
2/14/2023	34	100	42		24	120			
2/15/2023							130	160	100
2/16/2023				54					
8/16/2023									
8/18/2023	37	110							
8/19/2023			56		29	130		160	110
8/22/2023				56			150		
8/24/2023									
2/13/2024	36	140	43		51	120			110
2/14/2024									
2/15/2024				53			130	150	
2/16/2024									

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-3 (bg)	WGWC-17	WGWA-5 (bg)	WGWC-8	WGWC-9	WGWC-11	WGWC-12	WGWC-13	WGWC-19
5/17/2016									
5/18/2016	29	107	33						
5/19/2016				311	134	39	101	127	
7/19/2016			<10						
7/20/2016	<10	78		290	120	<10	76	88	
9/13/2016	12								
9/14/2016		82	150		140	24	96	92	
9/15/2016				270					
11/9/2016									
11/10/2016	30	98						100	
11/11/2016						42	100		98
11/14/2016				320					
1/17/2017									
1/18/2017	22								
1/19/2017			34						
1/20/2017		82							
1/24/2017									
1/27/2017						18	50	80	
2/6/2017				330					36
2/8/2017									
2/9/2017					180				
2/23/2017									
3/13/2017									
3/14/2017	22	120	32						
3/15/2017				370	160	54	120	100	120
3/17/2017									
4/11/2017					120				68
4/24/2017									
4/25/2017	22	120	22						
4/26/2017				380	140	42	100	92	76
5/17/2017									
6/7/2017									74
7/11/2017									70
8/8/2017	4 (J)								
8/9/2017		92	20					120	
8/10/2017				380	130	30	96		66
10/10/2017									
10/11/2017	10	74	4 (J)						
10/12/2017				450	120	54	100	110	100
6/13/2018			<10						
6/14/2018	26	100		410	120	16	94	88	74
9/24/2018									
9/27/2018									
9/28/2018									
10/2/2018									
10/3/2018	50		24						
10/4/2018		98		520	140	56	110	100	100
4/1/2019									
4/2/2019	28		25						88
4/3/2019				430	120	<10	66	72	
4/4/2019		89							
9/16/2019			41						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWA-3 (bg)	WGWC-17	WGWA-5 (bg)	WGWC-8	WGWC-9	WGWC-11	WGWC-12	WGWC-13	WGWC-19
9/17/2019									
9/18/2019	36	79						110	96
9/19/2019				440	130	27	89		
3/16/2020									
3/17/2020	20		18						
3/18/2020		98				26	73		
3/19/2020				540	160			95	
5/4/2020									110
9/21/2020	22								
9/22/2020			190	600					
9/23/2020		60			150		90		94
9/24/2020						60		21	
3/8/2021									
3/9/2021									
3/10/2021	20		19						
3/11/2021		75		530				63	100
3/12/2021					130	27	78		
4/7/2021									
4/8/2021									
8/23/2021									
8/24/2021			150						
8/25/2021	21	84				32	110	53	
8/26/2021				550	170				94
1/11/2022									
1/12/2022									
2/28/2022									
3/1/2022	31		23						
3/3/2022				530	140	21		71	98
3/4/2022		55					89		
6/6/2022									
6/7/2022									
8/15/2022			140						
8/16/2022	30	81		580		33			
8/17/2022					150				93
8/18/2022							88	89	
8/19/2022									
2/14/2023	27		24						
2/15/2023					160				
2/16/2023		77		590		33	89	81	100
8/16/2023									
8/18/2023									
8/19/2023	34		82	680					
8/22/2023		81			110			84	
8/24/2023						33	92		100
2/13/2024	34			620					
2/14/2024					150		85		
2/15/2024		79						84	100
2/16/2024			34			31			

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-25	WGWC-20	WGWC-24	WGWC-21	WGWC-23	WGWC-22
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 8/9/2024 5:17 PM View: Appendix III

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-25	WGWC-20	WGWC-24	WGWC-21	WGWC-23	WGWC-22
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						
3/8/2021		220	590				
3/9/2021				370	610	79	200
3/10/2021							
3/11/2021	24						
3/12/2021							
4/7/2021				510	520	66	
4/8/2021		180	540				170
8/23/2021							
8/24/2021							
8/25/2021	30						
8/26/2021		200	720	420	480	88	240
1/11/2022		220		320	580	67	270
1/12/2022			1200				
2/28/2022							
3/1/2022							
3/3/2022	17			280	580		
3/4/2022		200	1100			69	260
6/6/2022				210	670	90	
6/7/2022		240	920				210
8/15/2022							
8/16/2022					530		
8/17/2022		210				85	
8/18/2022			760	140			
8/19/2022	26						190
2/14/2023							
2/15/2023		200		230		71	210
2/16/2023	27		960		630		
8/16/2023			910				
8/18/2023							
8/19/2023		180					
8/22/2023					690		
8/24/2023	29			150		73	180
2/13/2024			1200				
2/14/2024				180			210
2/15/2024	31	130			740	76	
2/16/2024							

FIGURE E.

Appendix III - Trend Tests - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 8/9/2024, 5:22 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron, total (mg/L)	WGWC-16	-0.7689	-152	-92	Yes	22	0	n/a	0.01	NP
Boron, total (mg/L)	WGWC-8	0.1959	162	92	Yes	22	0	n/a	0.01	NP
Boron, total (mg/L)	WGWC-9	0.04219	117	92	Yes	22	0	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-1 (bg)	0.04387	113	92	Yes	22	0	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-18 (bg)	-1.371	-117	-92	Yes	22	0	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-8	9.116	200	92	Yes	22	0	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-18 (bg)	-0.06926	-100	-92	Yes	22	0	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-5 (bg)	-0.1002	-130	-87	Yes	21	0	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-16	-35.35	-150	-92	Yes	22	0	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-24	-35.81	-41	-30	Yes	10	0	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-8	15.81	175	92	Yes	22	0	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-18 (bg)	-0.01519	-169	-118	Yes	26	15.38	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-9	-0.1138	-228	-118	Yes	26	0	n/a	0.01	NP
pH, Field (S.U.)	WGWA-18 (bg)	-0.135	-117	-111	Yes	25	0	n/a	0.01	NP
pH, Field (S.U.)	WGWA-2 (bg)	-0.03468	-149	-118	Yes	26	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-18 (bg)	-0.6778	-111	-92	Yes	22	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-4 (bg)	0.3085	101	92	Yes	22	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-16	-69.6	-134	-92	Yes	22	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-8	11.98	156	92	Yes	22	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-9	2.16	101	92	Yes	22	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-1 (bg)	3.321	104	92	Yes	22	18.18	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-8	44.48	195	92	Yes	22	0	n/a	0.01	NP

Appendix III - Trend Tests - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 8/9/2024, 5:22 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron, total (mg/L)	WGWA-1 (bg)	0	-17	-92	No	22	95.45	n/a	0.01	NP
Boron, total (mg/L)	WGWA-18 (bg)	0	24	92	No	22	90.91	n/a	0.01	NP
Boron, total (mg/L)	WGWA-2 (bg)	0	-48	-92	No	22	81.82	n/a	0.01	NP
Boron, total (mg/L)	WGWA-3 (bg)	0	0	92	No	22	100	n/a	0.01	NP
Boron, total (mg/L)	WGWA-4 (bg)	0	0	92	No	22	100	n/a	0.01	NP
Boron, total (mg/L)	WGWA-5 (bg)	0	-16	-87	No	21	95.24	n/a	0.01	NP
Boron, total (mg/L)	WGWA-6 (bg)	0	0	92	No	22	100	n/a	0.01	NP
Boron, total (mg/L)	WGWA-7 (bg)	0	-17	-92	No	22	95.45	n/a	0.01	NP
Boron, total (mg/L)	**WGWC-16**	**-0.7689**	**-152**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	WGWC-20	0.9075	21	30	No	10	0	n/a	0.01	NP
Boron, total (mg/L)	WGWC-21	0	2	30	No	10	0	n/a	0.01	NP
Boron, total (mg/L)	WGWC-22	0	2	30	No	10	0	n/a	0.01	NP
Boron, total (mg/L)	WGWC-24	-0.4011	-27	-30	No	10	0	n/a	0.01	NP
Boron, total (mg/L)	WGWC-25	0.05928	7	30	No	10	0	n/a	0.01	NP
Boron, total (mg/L)	**WGWC-8**	**0.1959**	**162**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**WGWC-9**	**0.04219**	**117**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**WGWA-1 (bg)**	**0.04387**	**113**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**WGWA-18 (bg)**	**-1.371**	**-117**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	WGWA-2 (bg)	-0.1557	-49	-92	No	22	0	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-3 (bg)	0	0	92	No	22	0	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-4 (bg)	0	0	92	No	22	0	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-5 (bg)	-0.03714	-21	-87	No	21	0	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-6 (bg)	0	29	92	No	22	0	n/a	0.01	NP
Calcium, total (mg/L)	WGWA-7 (bg)	0.002392	11	92	No	22	0	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-20	26.34	17	30	No	10	0	n/a	0.01	NP
Calcium, total (mg/L)	WGWC-21	3.731	13	30	No	10	0	n/a	0.01	NP
Calcium, total (mg/L)	**WGWC-8**	**9.116**	**200**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	WGWA-1 (bg)	0.03767	64	92	No	22	0	n/a	0.01	NP
Chloride, Total (mg/L)	**WGWA-18 (bg)**	**-0.06926**	**-100**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	WGWA-2 (bg)	0.03503	78	92	No	22	0	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-3 (bg)	0	-40	-92	No	22	0	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-4 (bg)	0	-84	-92	No	22	0	n/a	0.01	NP
Chloride, Total (mg/L)	**WGWA-5 (bg)**	**-0.1002**	**-130**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	WGWA-6 (bg)	0	-9	-92	No	22	0	n/a	0.01	NP
Chloride, Total (mg/L)	WGWA-7 (bg)	0	-38	-92	No	22	0	n/a	0.01	NP
Chloride, Total (mg/L)	**WGWC-16**	**-35.35**	**-150**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	WGWC-20	50.14	16	30	No	10	0	n/a	0.01	NP
Chloride, Total (mg/L)	WGWC-21	0	0	30	No	10	0	n/a	0.01	NP
Chloride, Total (mg/L)	**WGWC-24**	**-35.81**	**-41**	**-30**	**Yes**	**10**	**0**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	WGWC-25	0	-6	-30	No	10	0	n/a	0.01	NP
Chloride, Total (mg/L)	**WGWC-8**	**15.81**	**175**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Fluoride, total (mg/L)	WGWA-1 (bg)	0	-7	-118	No	26	76.92	n/a	0.01	NP
Fluoride, total (mg/L)	**WGWA-18 (bg)**	**-0.01519**	**-169**	**-118**	**Yes**	**26**	**15.38**	**n/a**	**0.01**	**NP**
Fluoride, total (mg/L)	WGWA-2 (bg)	-0.007117	-88	-118	No	26	38.46	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-3 (bg)	0	-42	-118	No	26	65.38	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-4 (bg)	-0.004106	-86	-118	No	26	0	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-5 (bg)	0	31	111	No	25	88	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-6 (bg)	-0.00308	-74	-118	No	26	7.692	n/a	0.01	NP
Fluoride, total (mg/L)	WGWA-7 (bg)	0	-13	-118	No	26	76.92	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-15	-0.02008	-115	-118	No	26	0	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-19	-0.007115	-74	-118	No	26	0	n/a	0.01	NP
Fluoride, total (mg/L)	WGWC-21	0.0841	13	30	No	10	0	n/a	0.01	NP
Fluoride, total (mg/L)	**WGWC-9**	**-0.1138**	**-228**	**-118**	**Yes**	**26**	**0**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	WGWA-1 (bg)	-0.01648	-69	-118	No	26	0	n/a	0.01	NP
pH, Field (S.U.)	**WGWA-18 (bg)**	**-0.135**	**-117**	**-111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**

Appendix III - Trend Tests - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 8/9/2024, 5:22 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
pH, Field (S.U.)	**WGWA-2 (bg)**	**-0.03468**	**-149**	**-118**	**Yes**	**26**	**0**	**n/a**	**0.01**	**NP**
pH, Field (S.U.)	WGWA-3 (bg)	-0.01875	-92	-118	No	26	0	n/a	0.01	NP
pH, Field (S.U.)	WGWA-4 (bg)	0.01046	15	118	No	26	0	n/a	0.01	NP
pH, Field (S.U.)	WGWA-5 (bg)	-0.01322	-27	-118	No	26	0	n/a	0.01	NP
pH, Field (S.U.)	WGWA-6 (bg)	0.02119	69	111	No	25	0	n/a	0.01	NP
pH, Field (S.U.)	WGWA-7 (bg)	-0.02101	-54	-118	No	26	0	n/a	0.01	NP
pH, Field (S.U.)	WGWC-24	0.1015	22	30	No	10	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-1 (bg)	0	-9	-92	No	22	90.91	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**WGWA-18 (bg)**	**-0.6778**	**-111**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	WGWA-2 (bg)	-0.05229	-67	-92	No	22	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-3 (bg)	-0.01198	-45	-92	No	22	4.545	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**WGWA-4 (bg)**	**0.3085**	**101**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	WGWA-5 (bg)	0.01977	17	87	No	21	19.05	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-6 (bg)	-0.1144	-49	-92	No	22	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWA-7 (bg)	0	-34	-92	No	22	68.18	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**WGWC-16**	**-69.6**	**-134**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	WGWC-20	20.25	9	30	No	10	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-21	60.25	22	30	No	10	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-22	-5.448	-5	-30	No	10	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	WGWC-24	-36.74	-26	-30	No	10	0	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**WGWC-8**	**11.98**	**156**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**WGWC-9**	**2.16**	**101**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**WGWA-1 (bg)**	**3.321**	**104**	**92**	**Yes**	**22**	**18.18**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	WGWA-18 (bg)	-4.244	-63	-92	No	22	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-2 (bg)	3.67	58	92	No	22	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-3 (bg)	1.782	68	92	No	22	4.545	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-4 (bg)	1.696	62	92	No	22	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-5 (bg)	1.852	32	87	No	21	9.524	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-6 (bg)	2.929	81	92	No	22	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWA-7 (bg)	2.19	50	92	No	22	13.64	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-20	161.6	18	30	No	10	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-21	66.36	24	30	No	10	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	WGWC-22	-6.913	-4	-30	No	10	0	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**WGWC-8**	**44.48**	**195**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**

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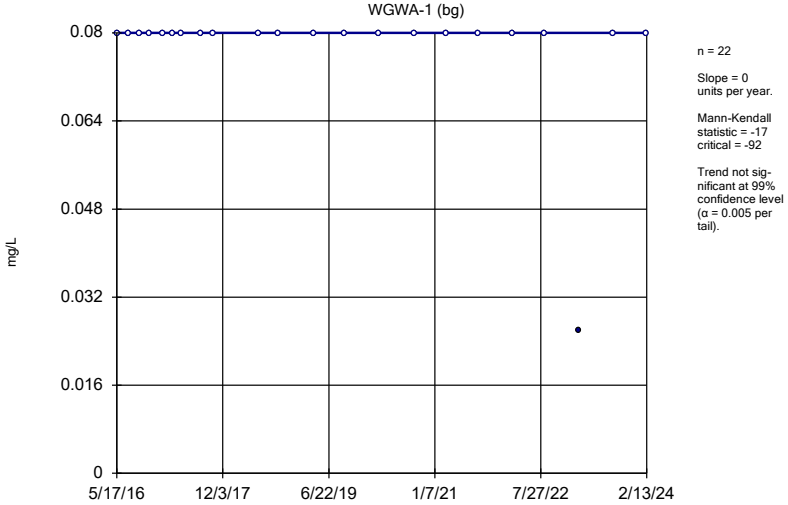
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-1 (bg)



n = 22

Slope = 0
units per year.

Mann-Kendall
statistic = -17
critical = -92

Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron, total Analysis Run 8/9/2024 5:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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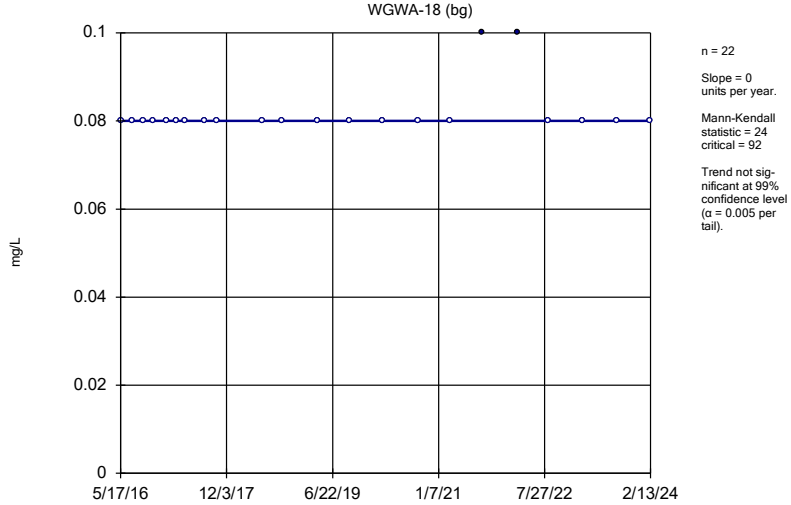
Sen's Slope Estimator

WGWA-18 (bg)



n = 22

Slope = 0
units per year.

Mann-Kendall
statistic = 24
critical = 92

Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron, total Analysis Run 8/9/2024 5:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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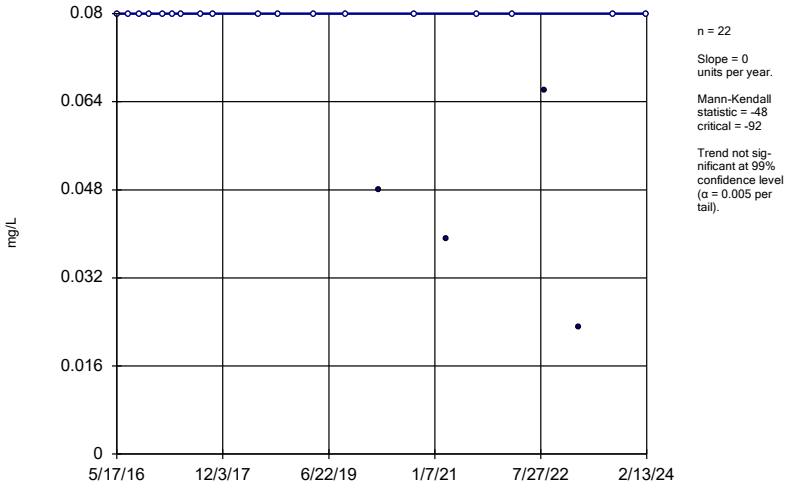
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-2 (bg)



n = 22

Slope = 0
units per year.

Mann-Kendall
statistic = -48
critical = -92

Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron, total Analysis Run 8/9/2024 5:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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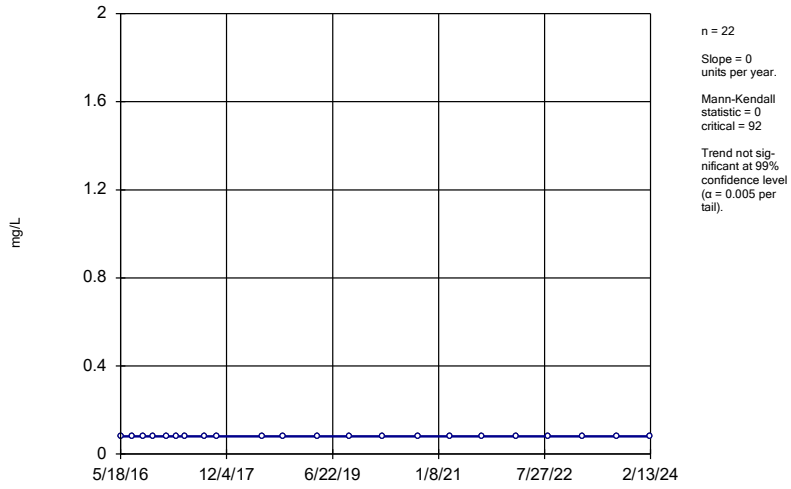
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-3 (bg)



n = 22

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 92

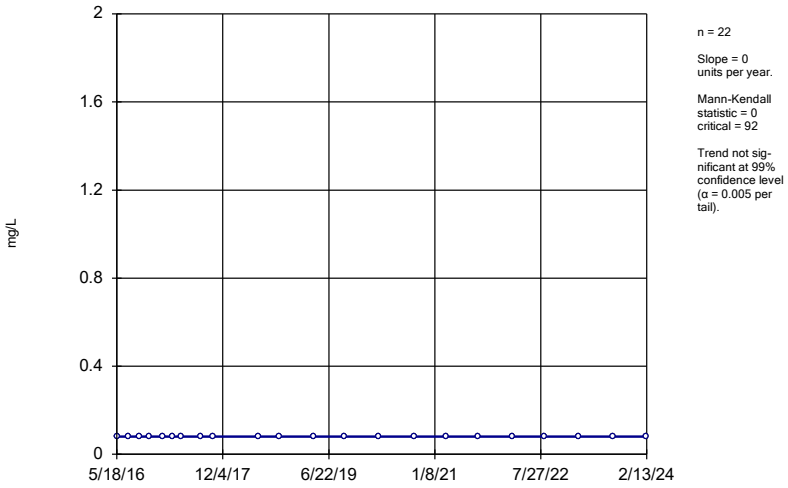
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron, total Analysis Run 8/9/2024 5:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-4 (bg)



n = 22

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 92

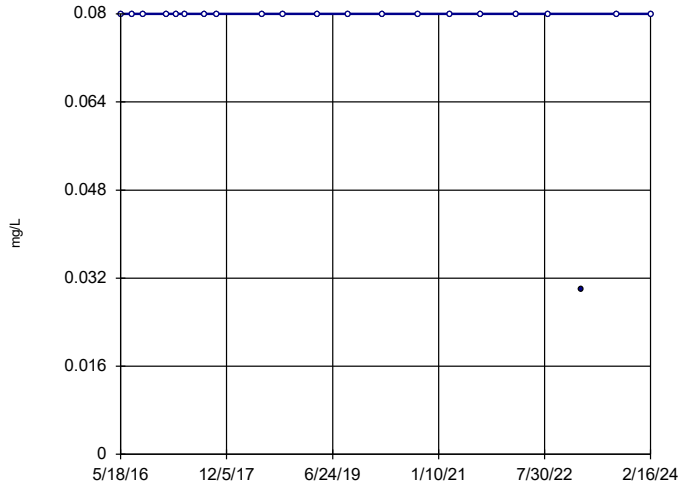
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron, total Analysis Run 8/9/2024 5:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-5 (bg)



n = 21

Slope = 0
units per year.

Mann-Kendall
statistic = -16
critical = -87

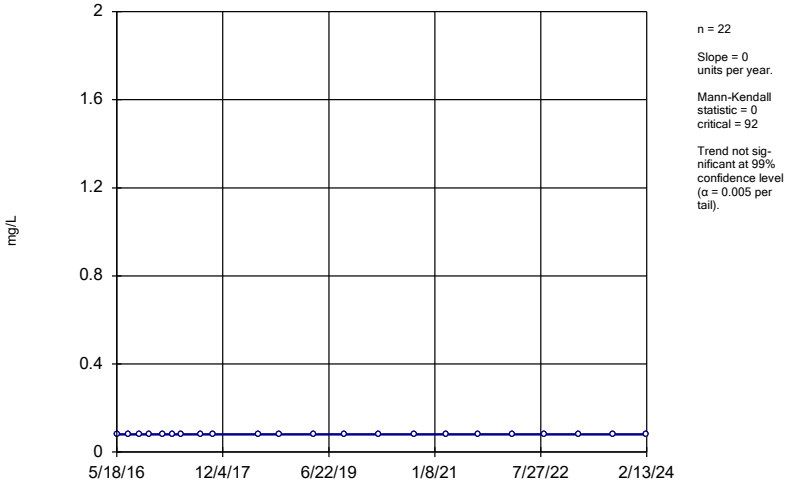
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron, total Analysis Run 8/9/2024 5:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-6 (bg)



n = 22

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 92

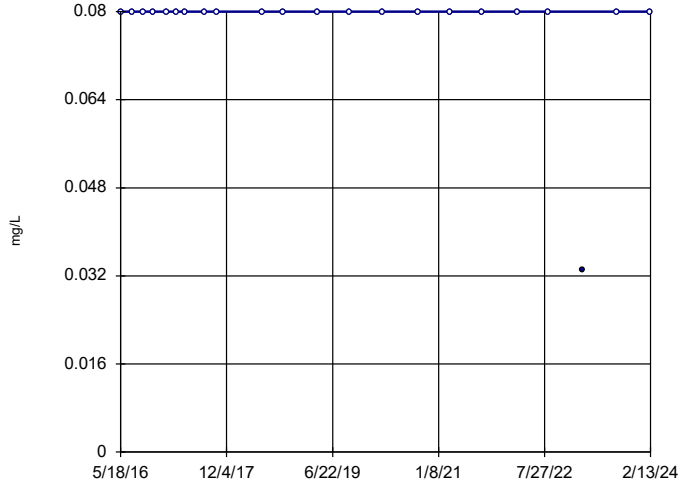
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron, total Analysis Run 8/9/2024 5:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-7 (bg)



n = 22

Slope = 0
units per year.

Mann-Kendall
statistic = -17
critical = -92

Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron, total Analysis Run 8/9/2024 5:19 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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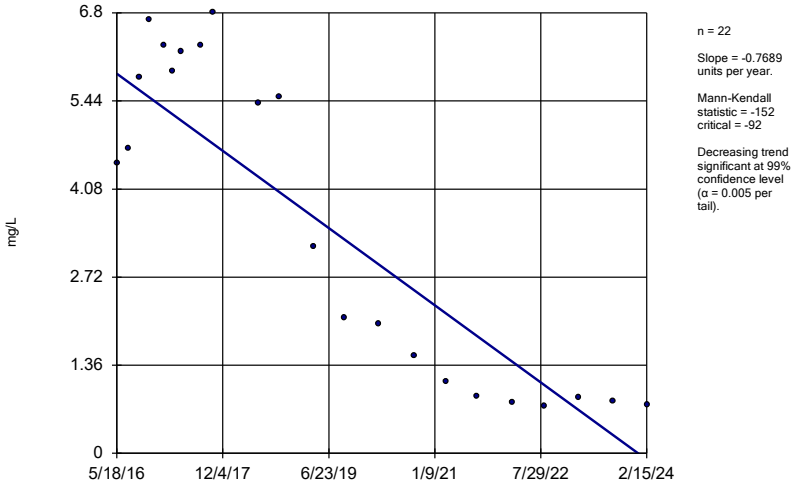
Sen's Slope Estimator

WGWC-16



n = 22

Slope = -0.7689 units per year.

Mann-Kendall statistic = -152 critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 8/9/2024 5:19 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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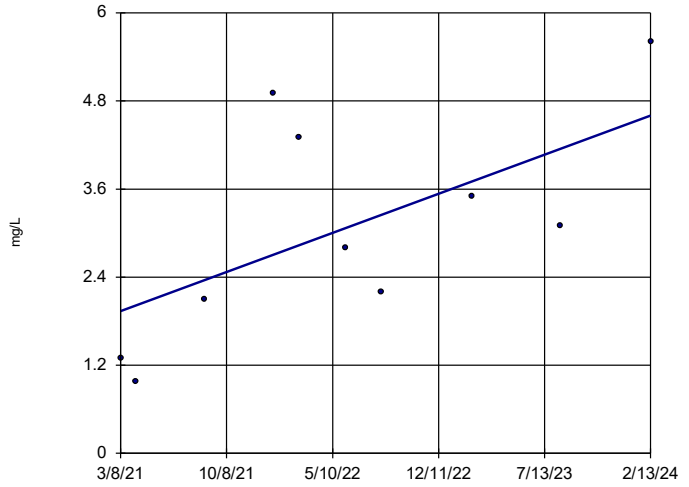
Sen's Slope Estimator

WGWC-20



n = 10

Slope = 0.9075 units per year.

Mann-Kendall statistic = 21 critical = 30

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 8/9/2024 5:19 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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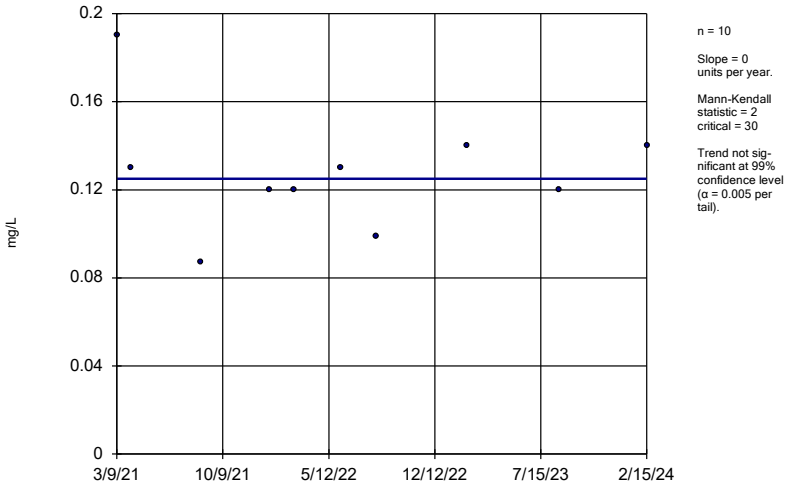
Sen's Slope Estimator

WGWC-21



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 2 critical = 30

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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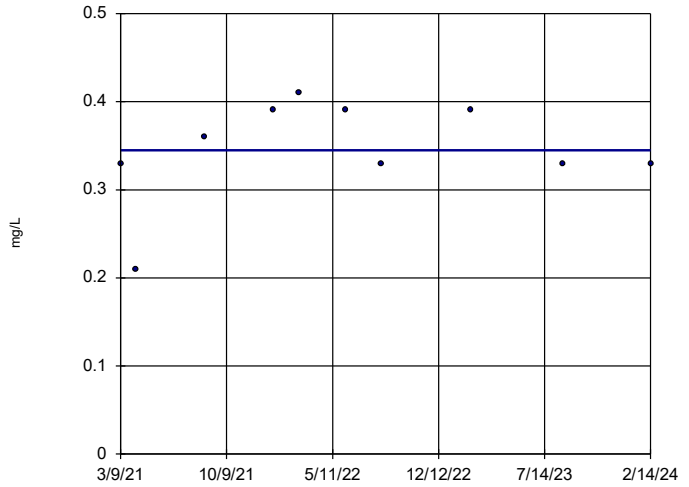
Sen's Slope Estimator

WGWC-22



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 2 critical = 30

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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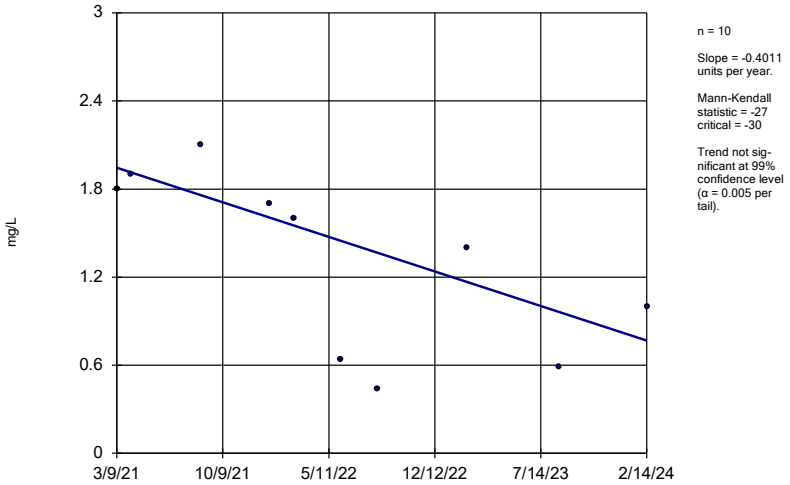
Sen's Slope Estimator

WGWC-24



n = 10

Slope = -0.4011 units per year.

Mann-Kendall statistic = -27
critical = -30

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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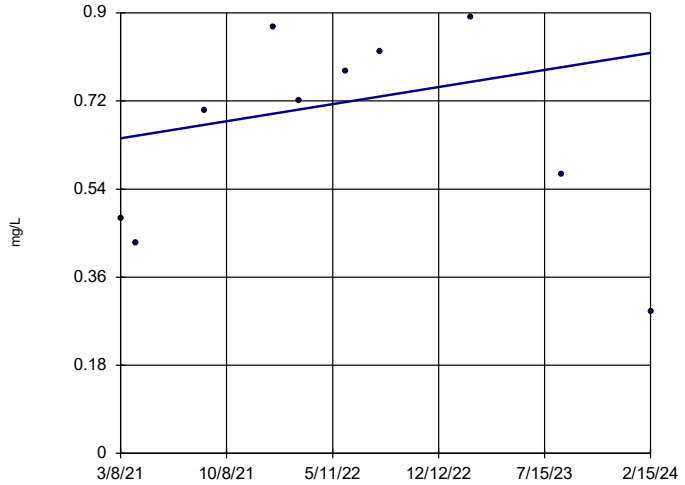
Sen's Slope Estimator

WGWC-25



n = 10

Slope = 0.05928 units per year.

Mann-Kendall statistic = 7
critical = 30

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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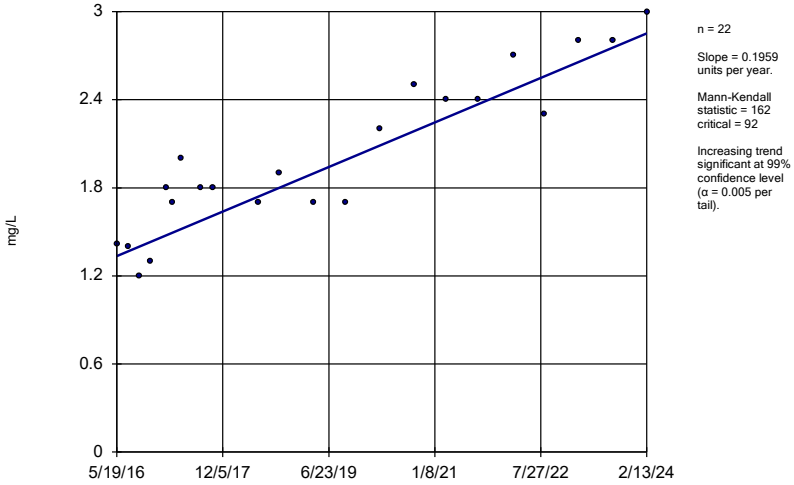
Sen's Slope Estimator

WGWC-8



n = 22

Slope = 0.1959 units per year.

Mann-Kendall statistic = 162
critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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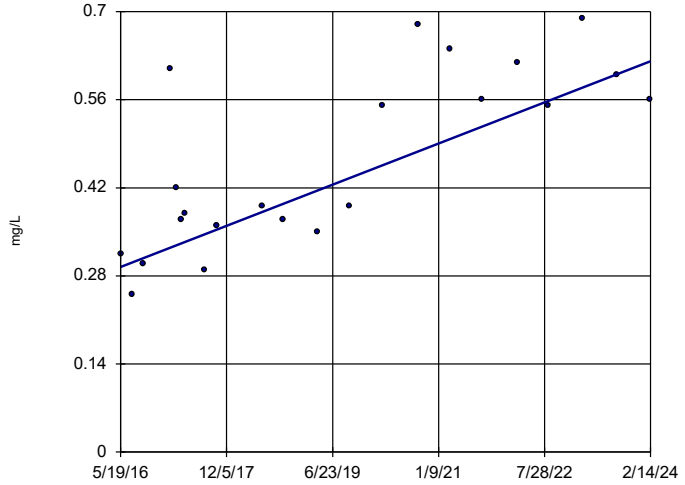
Sen's Slope Estimator

WGWC-9



n = 22

Slope = 0.04219 units per year.

Mann-Kendall statistic = 117
critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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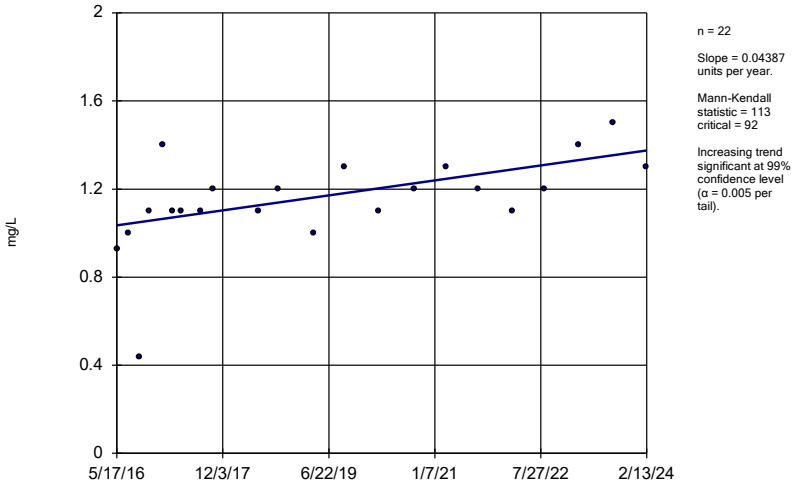
Sen's Slope Estimator

WGWA-1 (bg)



n = 22

Slope = 0.04387 units per year.

Mann-Kendall statistic = 113
critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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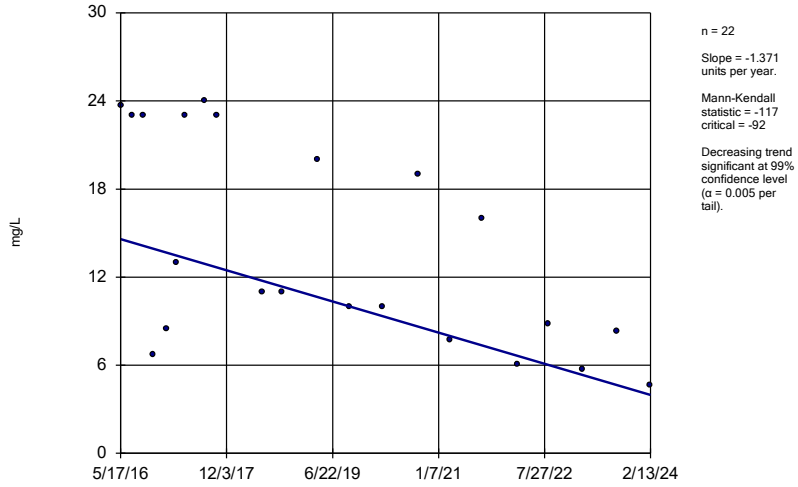
Sen's Slope Estimator

WGWA-18 (bg)



n = 22

Slope = -1.371 units per year.

Mann-Kendall statistic = -117
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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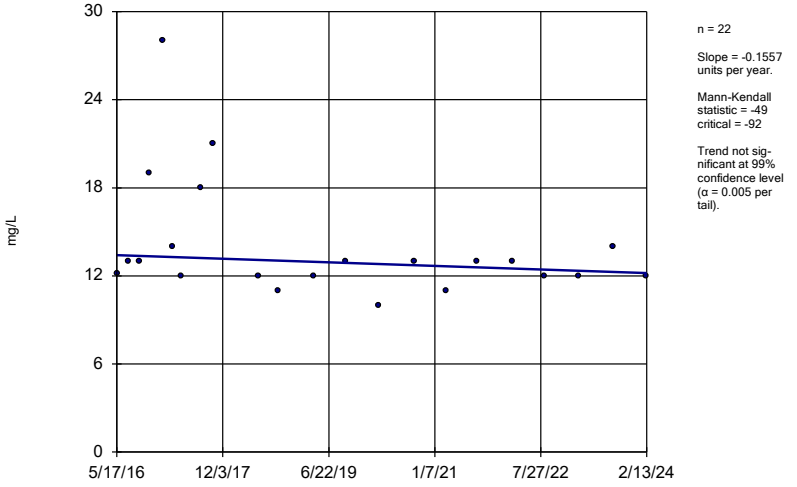
Sen's Slope Estimator

WGWA-2 (bg)



n = 22

Slope = -0.1557 units per year.

Mann-Kendall statistic = -49
critical = -92

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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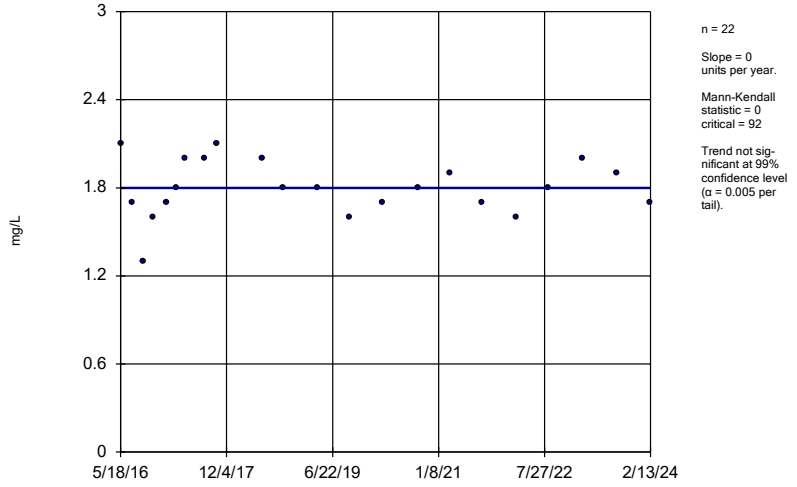
Sen's Slope Estimator

WGWA-3 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 92

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

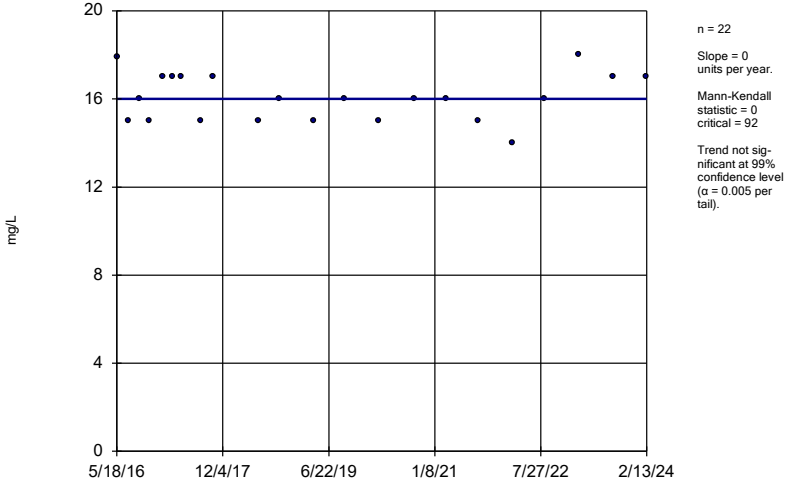
Constituent: Calcium, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-4 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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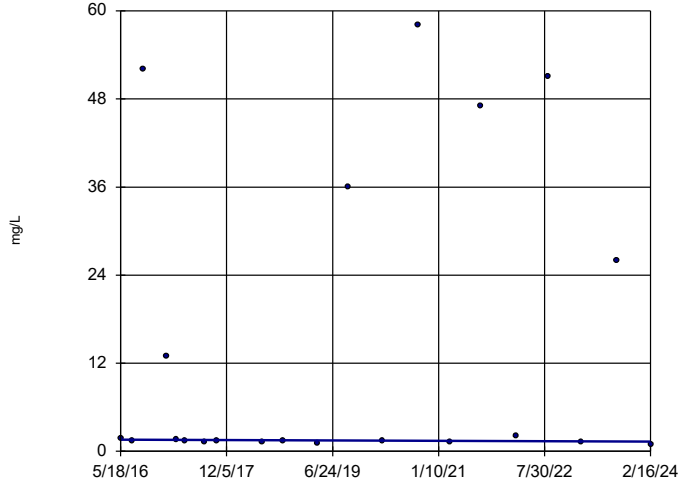
Sen's Slope Estimator

WGWA-5 (bg)



n = 21

Slope = -0.03714 units per year.

Mann-Kendall statistic = -21 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

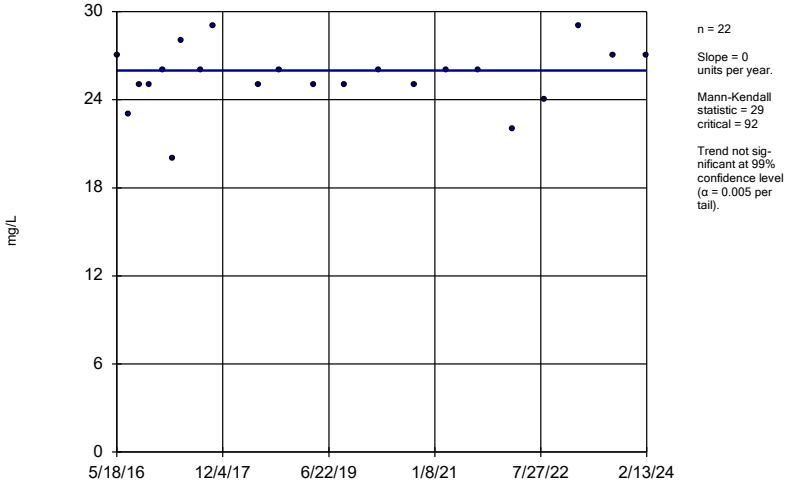
Constituent: Calcium, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-6 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 29 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

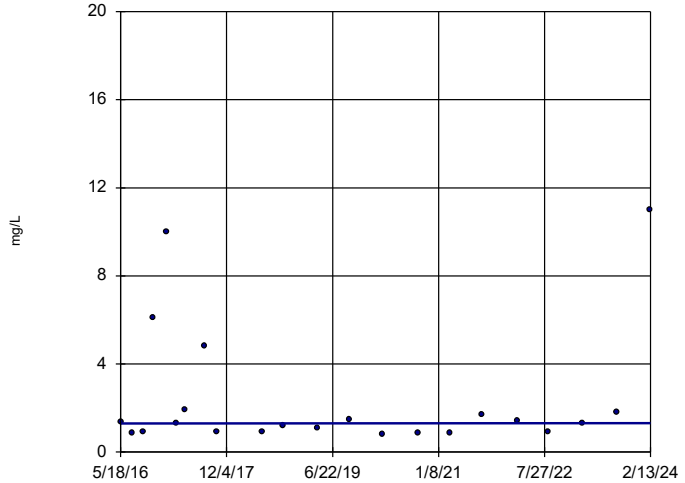
Constituent: Calcium, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-7 (bg)



n = 22

Slope = 0.002392 units per year.

Mann-Kendall statistic = 11 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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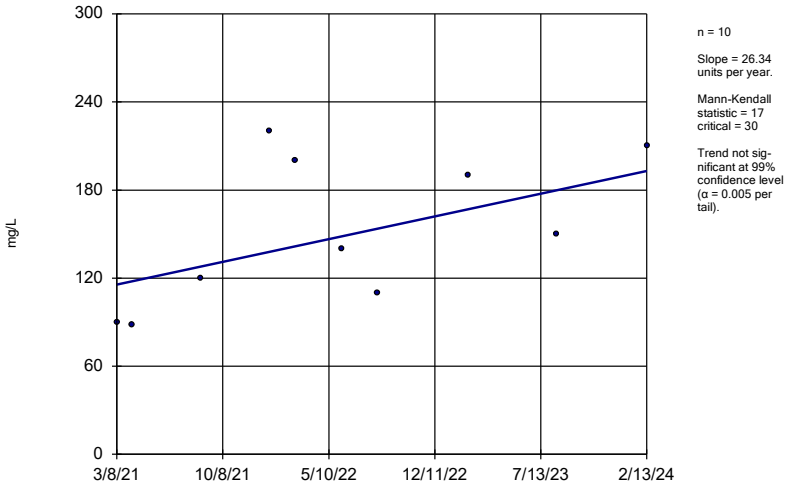
Sen's Slope Estimator

WGWC-20



n = 10

Slope = 26.34 units per year.

Mann-Kendall statistic = 17 critical = 30

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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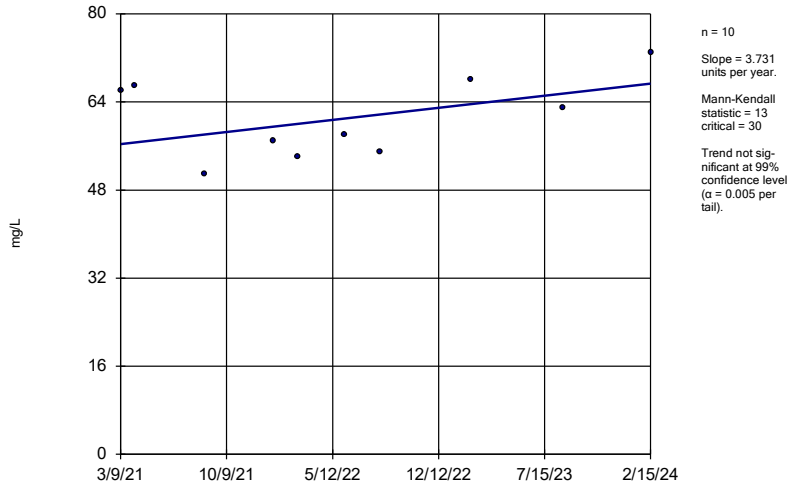
Sen's Slope Estimator

WGWC-21



n = 10

Slope = 3.731 units per year.

Mann-Kendall statistic = 13 critical = 30

Trend not significant at 99% confidence level (α = 0.005 per tail).

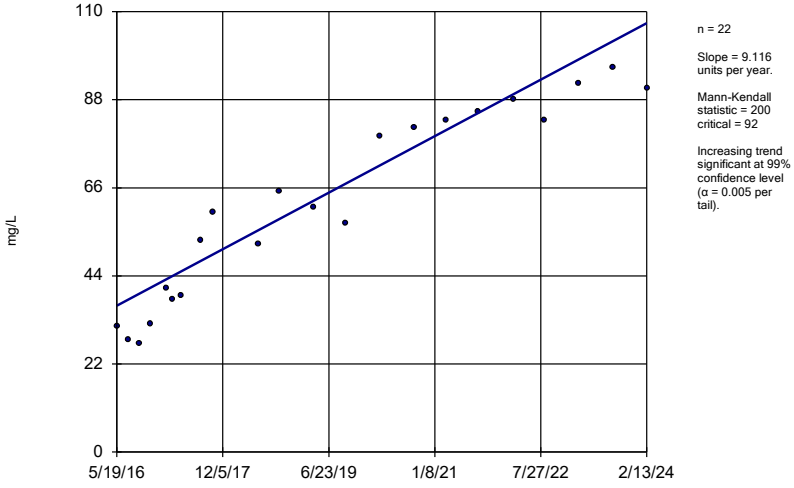
Constituent: Calcium, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWC-8



n = 22

Slope = 9.116 units per year.

Mann-Kendall statistic = 200 critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

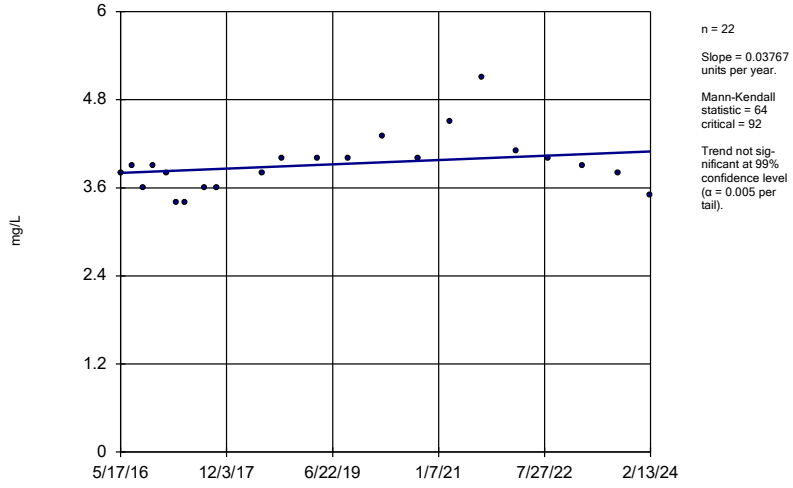
Constituent: Calcium, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-1 (bg)



n = 22

Slope = 0.03767 units per year.

Mann-Kendall statistic = 64 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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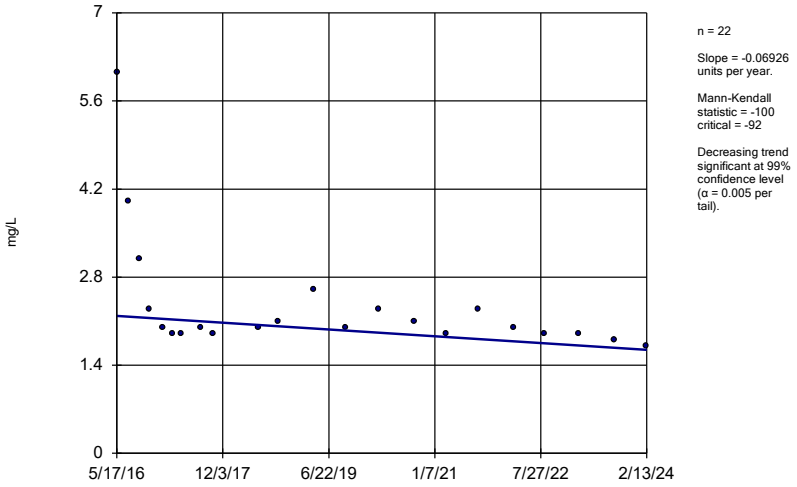
Sen's Slope Estimator

WGWA-18 (bg)



n = 22

Slope = -0.06926 units per year.

Mann-Kendall statistic = -100 critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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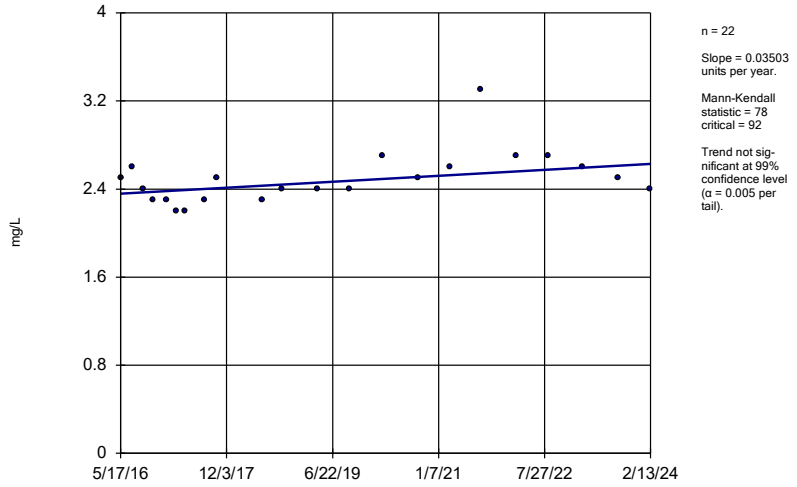
Sen's Slope Estimator

WGWA-2 (bg)



n = 22

Slope = 0.03503 units per year.

Mann-Kendall statistic = 78 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

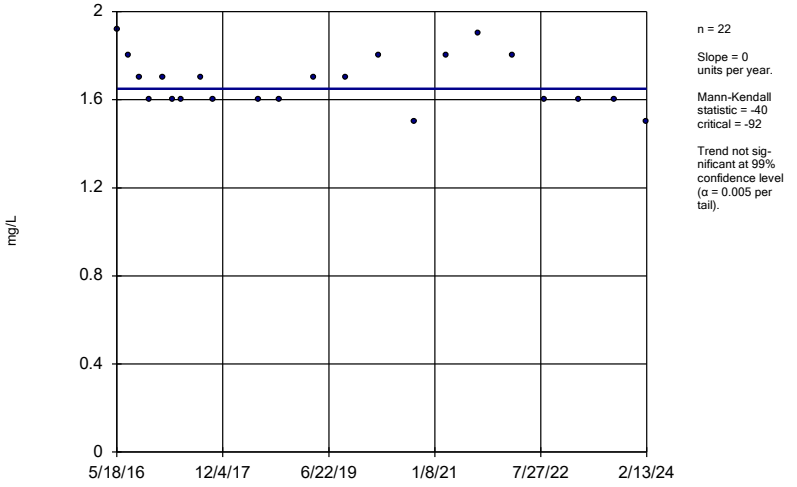
Constituent: Chloride, Total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-3 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -40 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

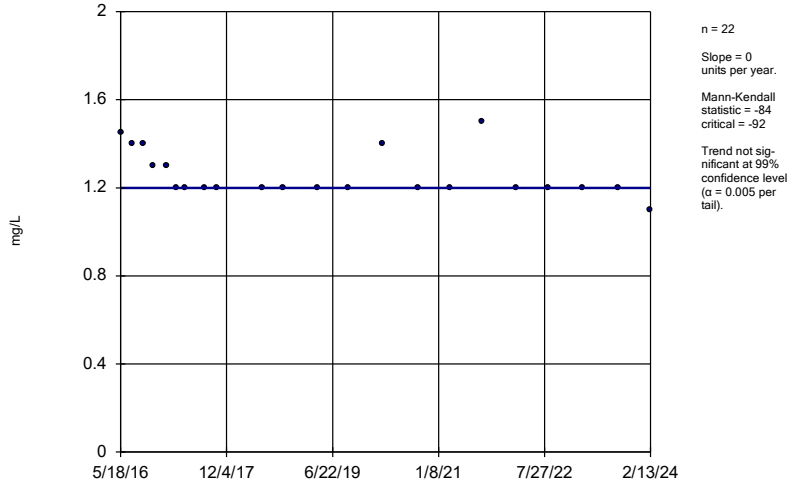
Constituent: Chloride, Total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-4 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -84 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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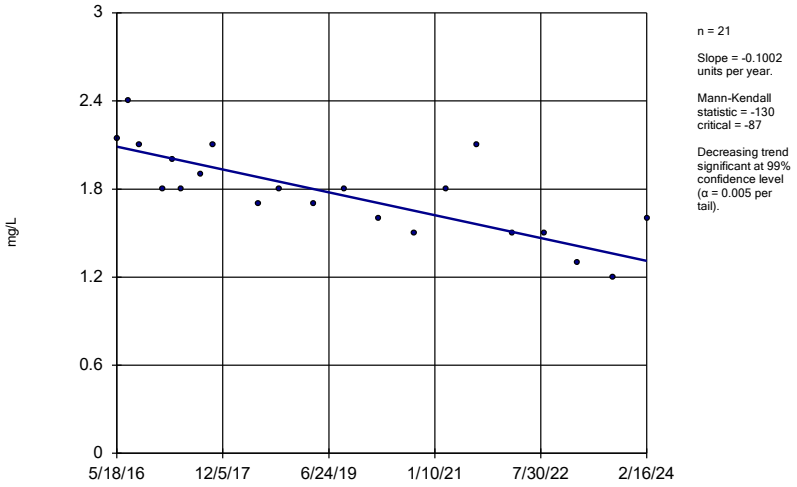
Sen's Slope Estimator

WGWA-5 (bg)



n = 21

Slope = -0.1002 units per year.

Mann-Kendall statistic = -130 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

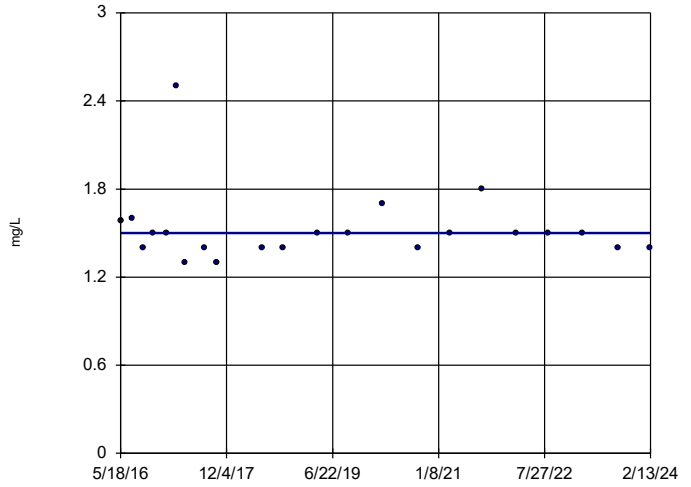
Constituent: Chloride, Total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-6 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -9 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

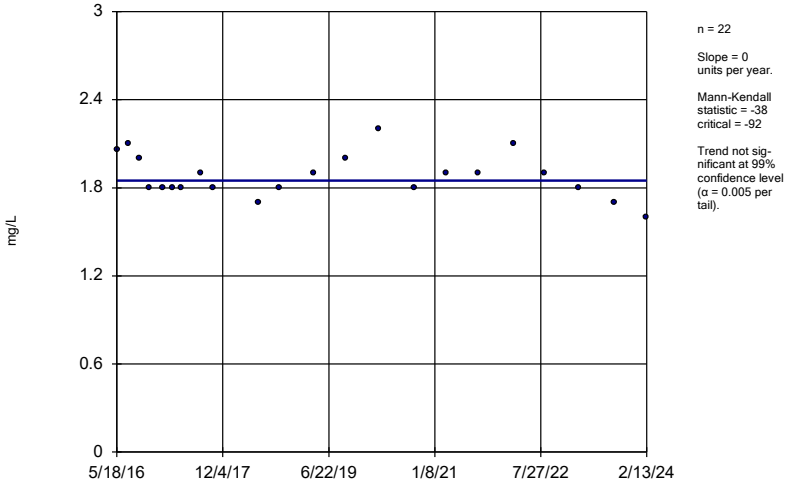
Constituent: Chloride, Total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-7 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -38 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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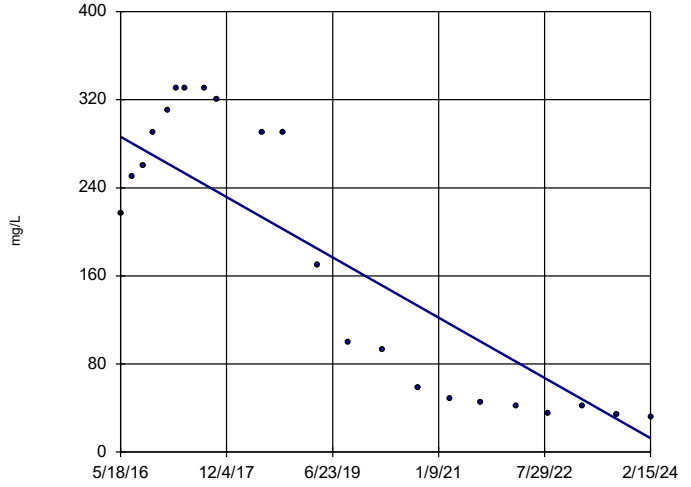
Sen's Slope Estimator

WGWC-16



n = 22

Slope = -35.35 units per year.

Mann-Kendall statistic = -150 critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

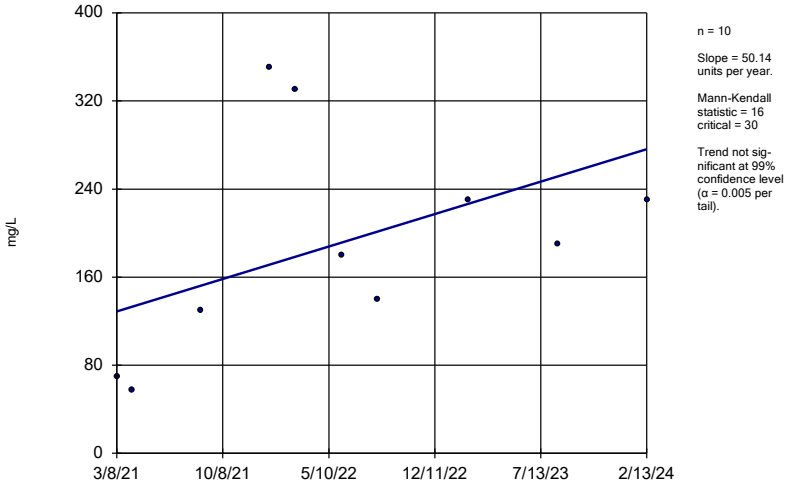
Constituent: Chloride, Total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWC-20



n = 10

Slope = 50.14 units per year.

Mann-Kendall statistic = 16
critical = 30

Trend not significant at 99% confidence level (α = 0.005 per tail).

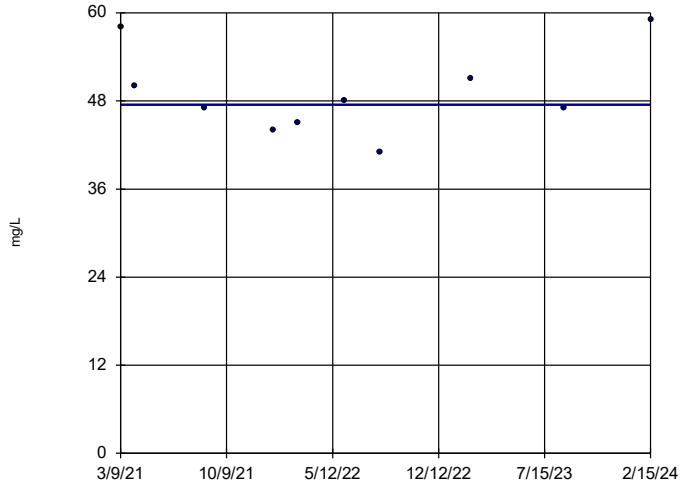
Constituent: Chloride, Total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWC-21



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 30

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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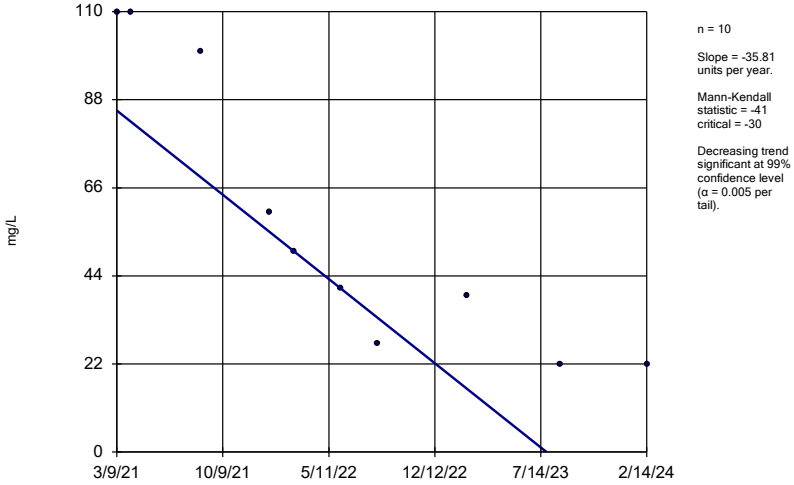
Sen's Slope Estimator

WGWC-24



n = 10

Slope = -35.81 units per year.

Mann-Kendall statistic = -41
critical = -30

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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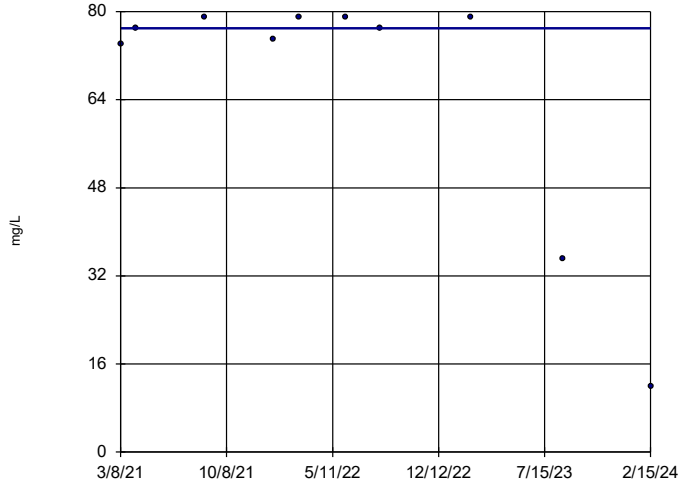
Sen's Slope Estimator

WGWC-25



n = 10

Slope = 0 units per year.

Mann-Kendall statistic = -6
critical = -30

Trend not significant at 99% confidence level (α = 0.005 per tail).

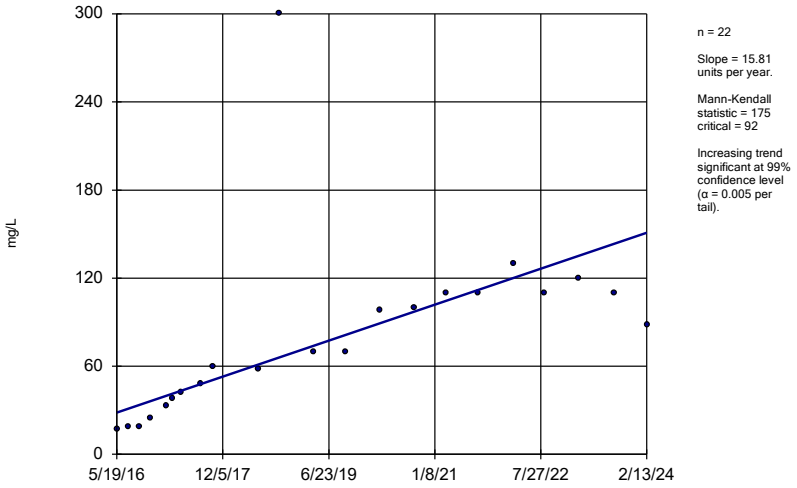
Constituent: Chloride, Total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWC-8



n = 22

Slope = 15.81 units per year.

Mann-Kendall statistic = 175 critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

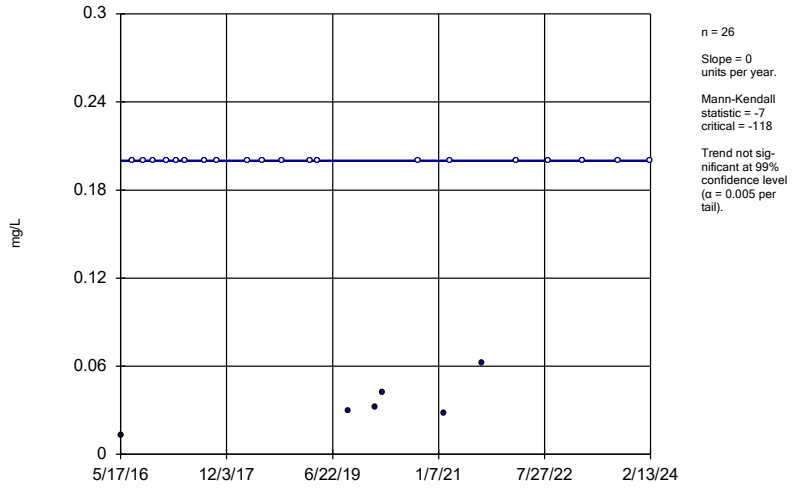
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-1 (bg)



n = 26

Slope = 0 units per year.

Mann-Kendall statistic = -7 critical = -118

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

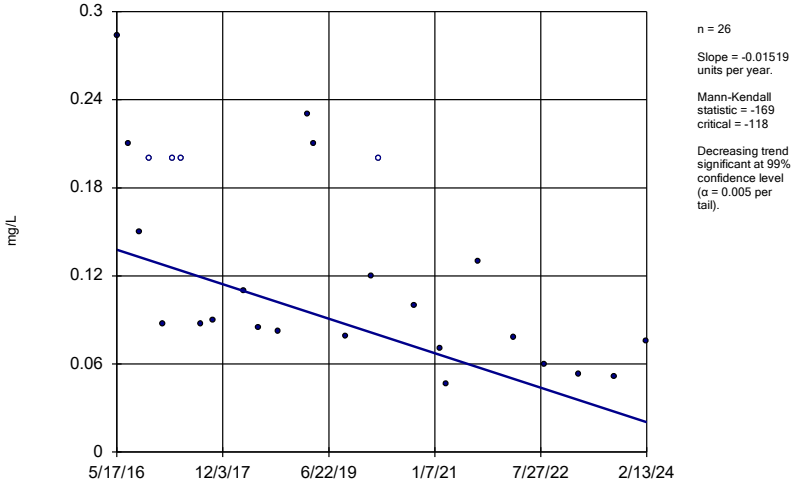
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-18 (bg)



n = 26

Slope = -0.01519 units per year.

Mann-Kendall statistic = -169 critical = -118

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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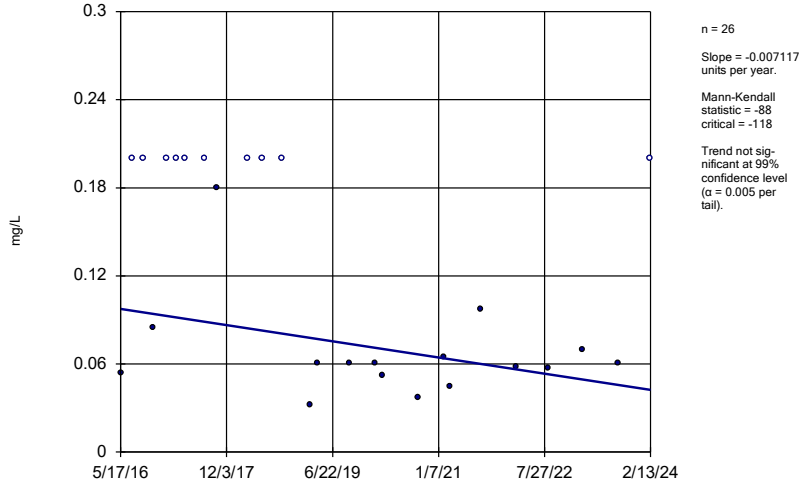
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-2 (bg)



n = 26

Slope = -0.007117 units per year.

Mann-Kendall statistic = -88 critical = -118

Trend not significant at 99% confidence level (α = 0.005 per tail).

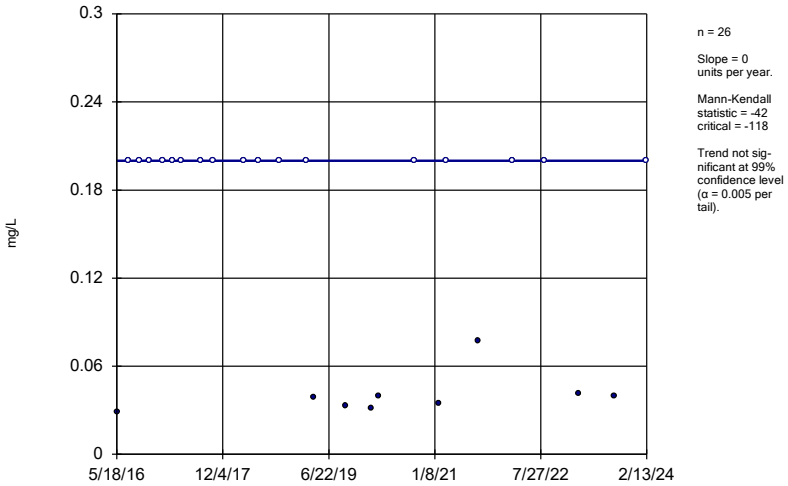
Constituent: Fluoride, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-3 (bg)



n = 26

Slope = 0 units per year.

Mann-Kendall statistic = -42
critical = -118

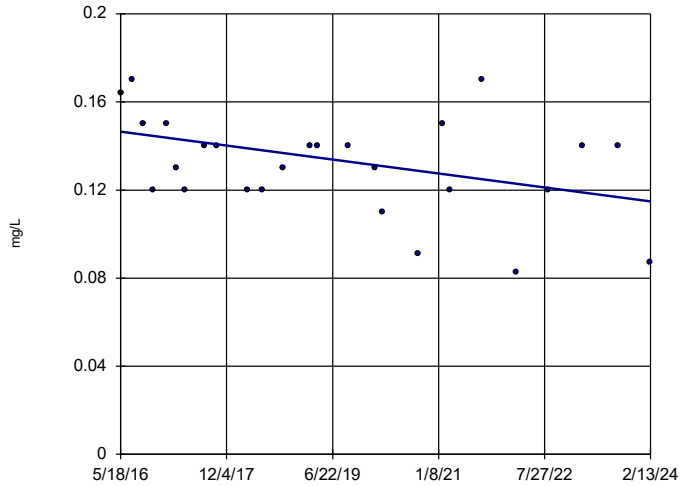
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-4 (bg)



n = 26

Slope = -0.004106 units per year.

Mann-Kendall statistic = -86
critical = -118

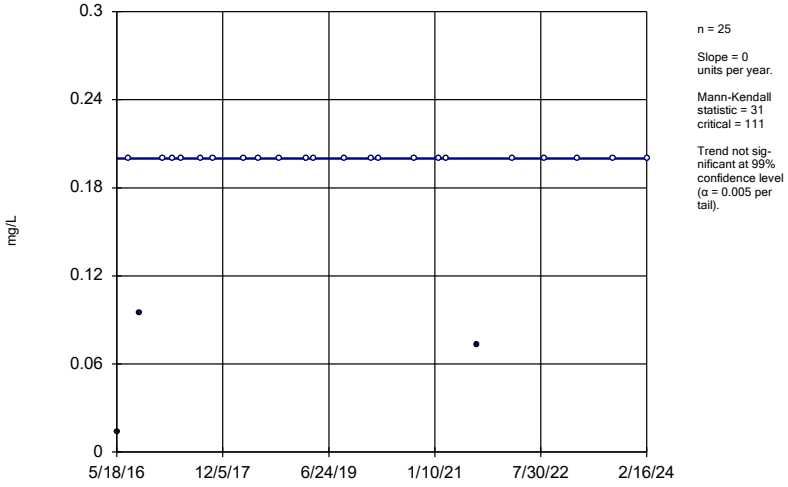
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-5 (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 31
critical = 111

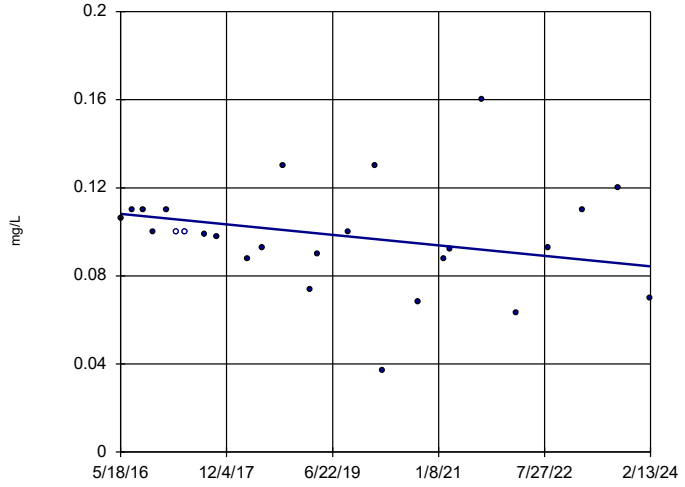
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-6 (bg)



n = 26

Slope = -0.00308 units per year.

Mann-Kendall statistic = -74
critical = -118

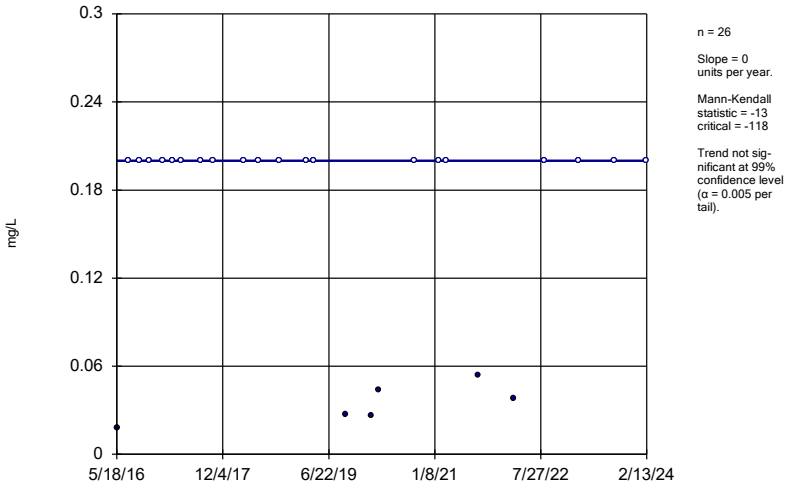
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-7 (bg)



n = 26

Slope = 0 units per year.

Mann-Kendall statistic = -13
critical = -118

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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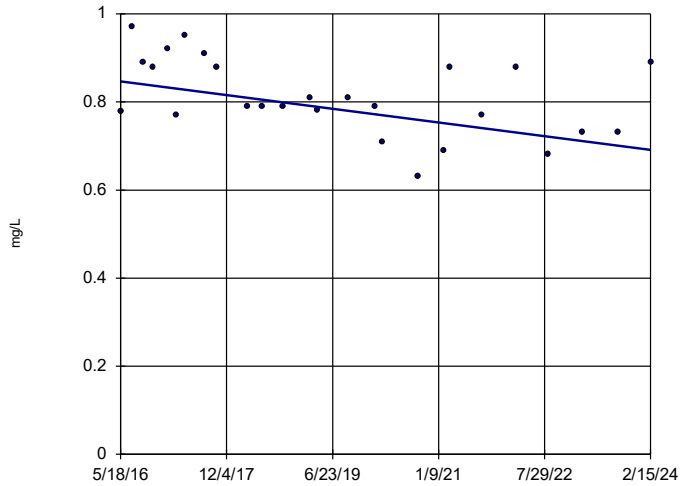
Sen's Slope Estimator

WGWC-15



n = 26

Slope = -0.02008 units per year.

Mann-Kendall statistic = -115
critical = -118

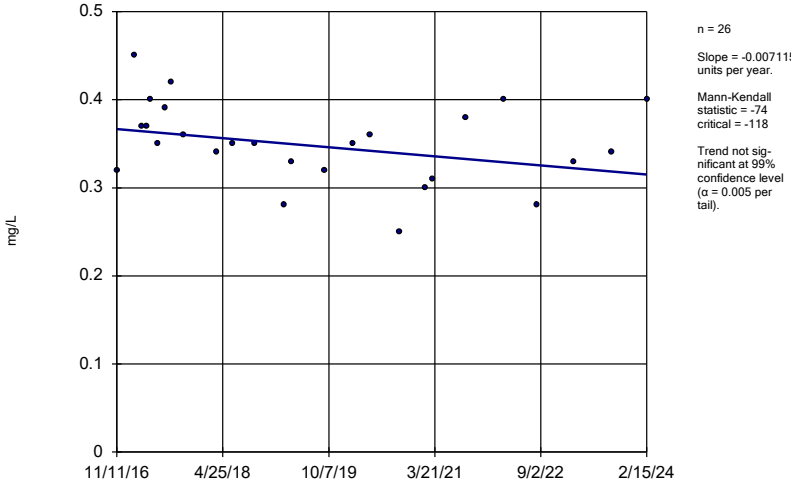
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWC-19



n = 26

Slope = -0.007115 units per year.

Mann-Kendall statistic = -74
critical = -118

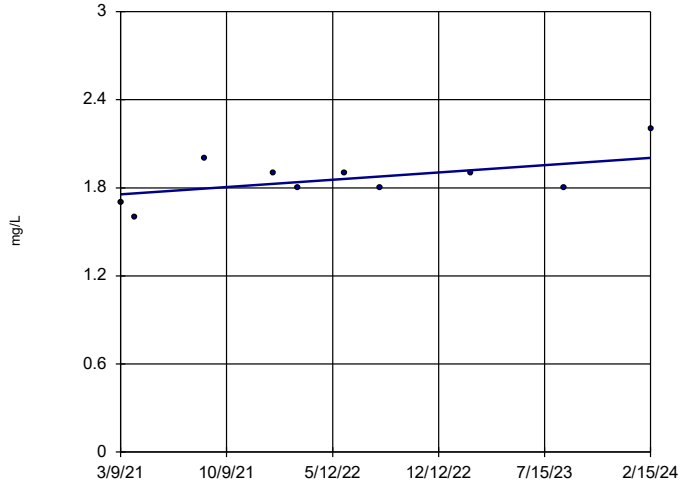
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWC-21



n = 10

Slope = 0.0841 units per year.

Mann-Kendall statistic = 13
critical = 30

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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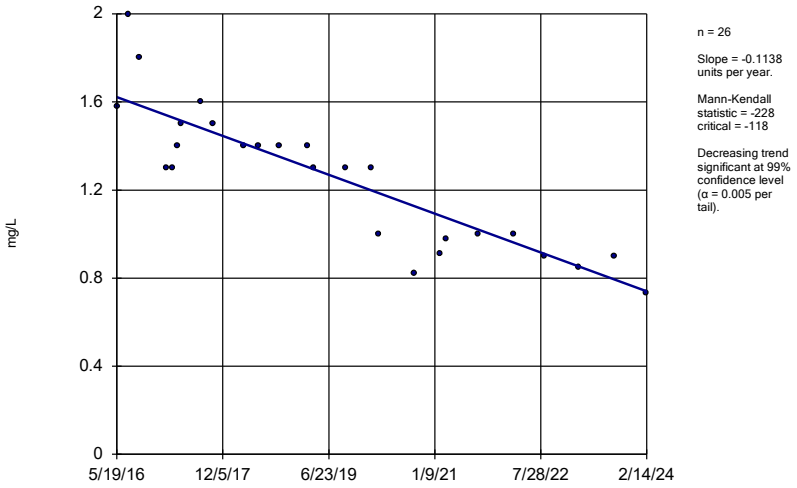
Sen's Slope Estimator

WGWC-9



n = 26

Slope = -0.1138 units per year.

Mann-Kendall statistic = -228 critical = -118

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

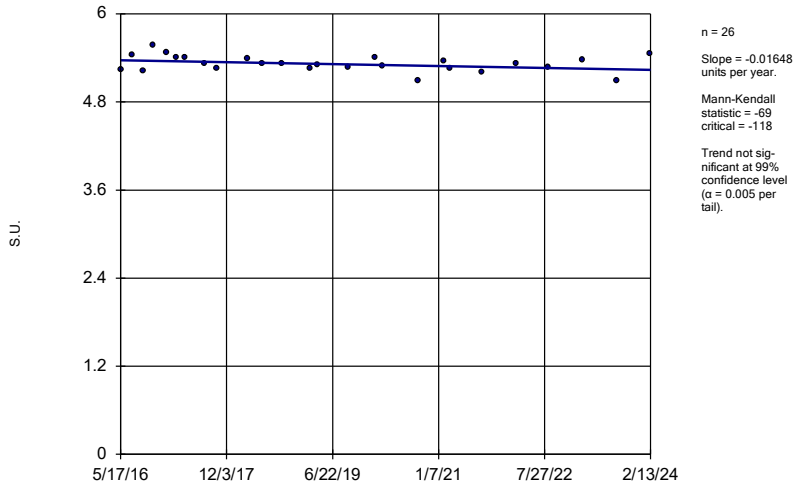
Constituent: Fluoride, total Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-1 (bg)



n = 26

Slope = -0.01648 units per year.

Mann-Kendall statistic = -69 critical = -118

Trend not significant at 99% confidence level (α = 0.005 per tail).

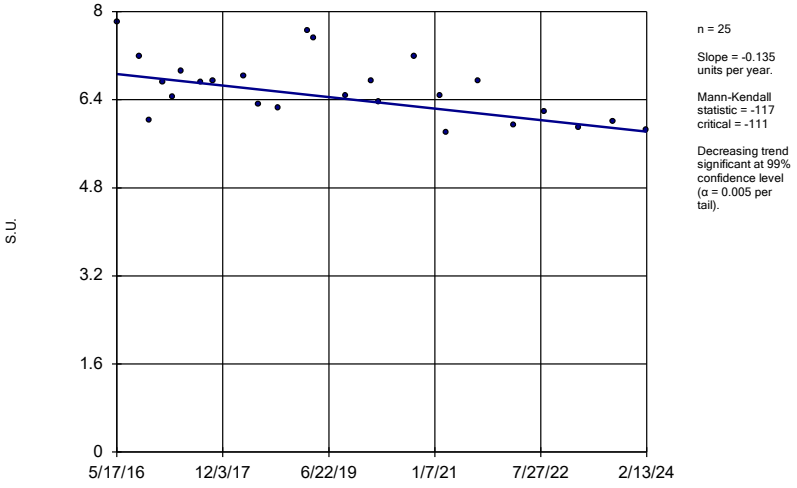
Constituent: pH, Field Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-18 (bg)



n = 25

Slope = -0.135 units per year.

Mann-Kendall statistic = -117 critical = -111

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

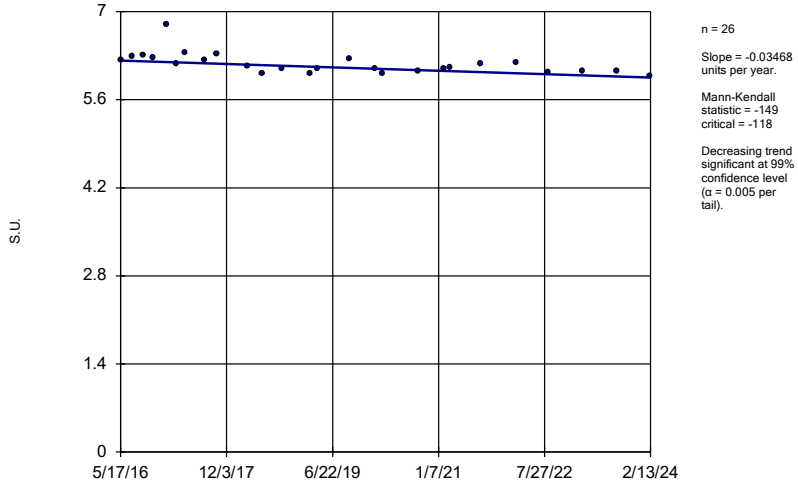
Constituent: pH, Field Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-2 (bg)



n = 26

Slope = -0.03468 units per year.

Mann-Kendall statistic = -149 critical = -118

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

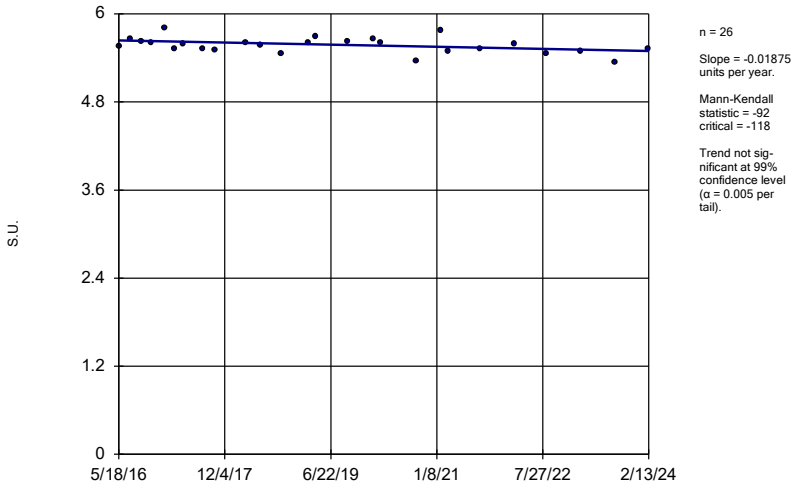
Constituent: pH, Field Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-3 (bg)



n = 26

Slope = -0.01875 units per year.

Mann-Kendall statistic = -92
critical = -118

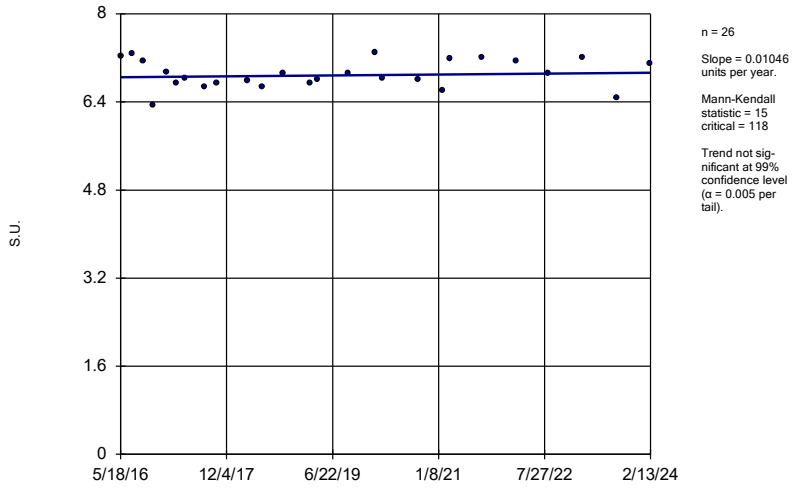
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-4 (bg)



n = 26

Slope = 0.01046 units per year.

Mann-Kendall statistic = 15
critical = 118

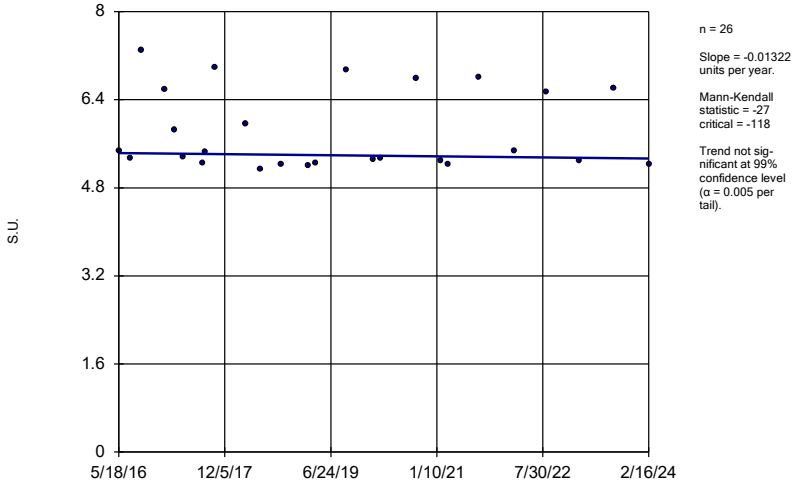
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-5 (bg)



n = 26

Slope = -0.01322 units per year.

Mann-Kendall statistic = -27
critical = -118

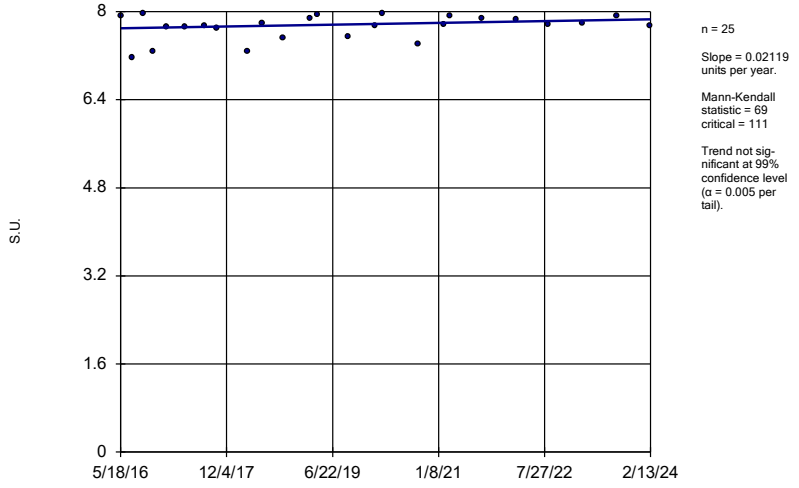
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-6 (bg)



n = 25

Slope = 0.02119 units per year.

Mann-Kendall statistic = 69
critical = 111

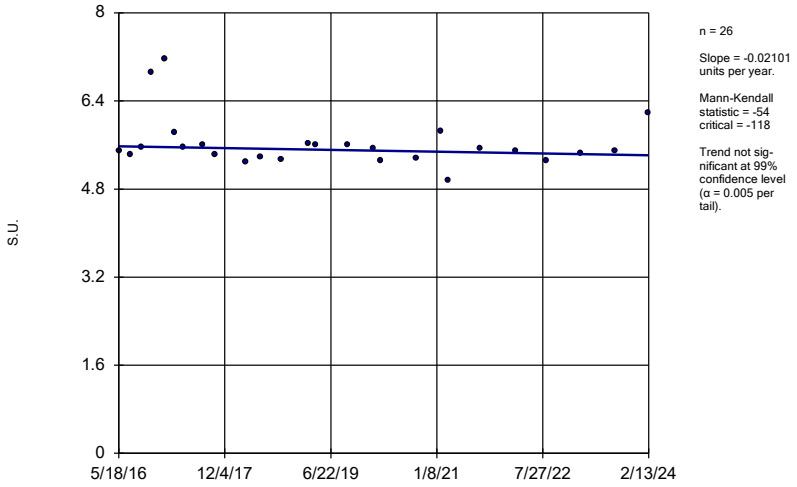
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-7 (bg)



n = 26

Slope = -0.02101 units per year.

Mann-Kendall statistic = -54
critical = -118

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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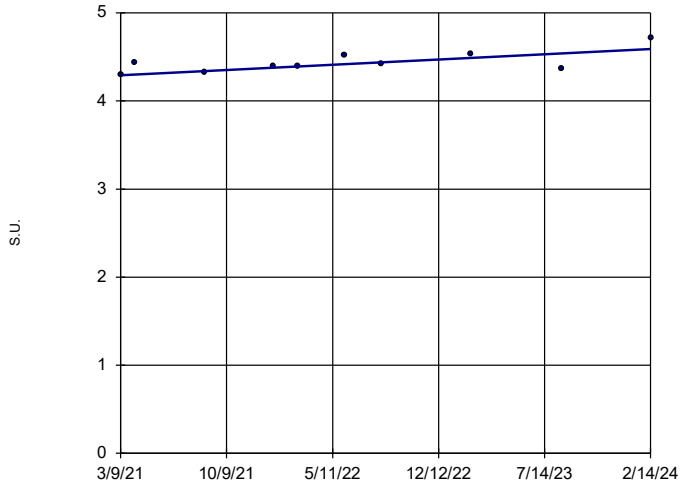
Sen's Slope Estimator

WGWC-24



n = 10

Slope = 0.1015 units per year.

Mann-Kendall statistic = 22
critical = 30

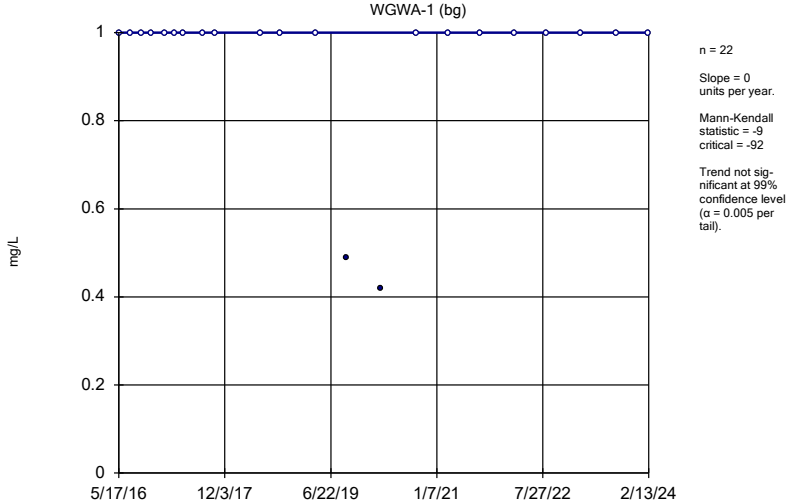
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-1 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -9
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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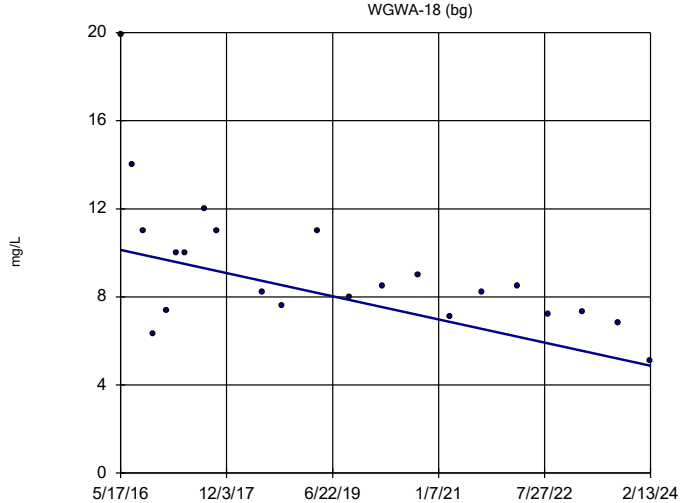
Sen's Slope Estimator

WGWA-18 (bg)



n = 22

Slope = -0.6778 units per year.

Mann-Kendall statistic = -111
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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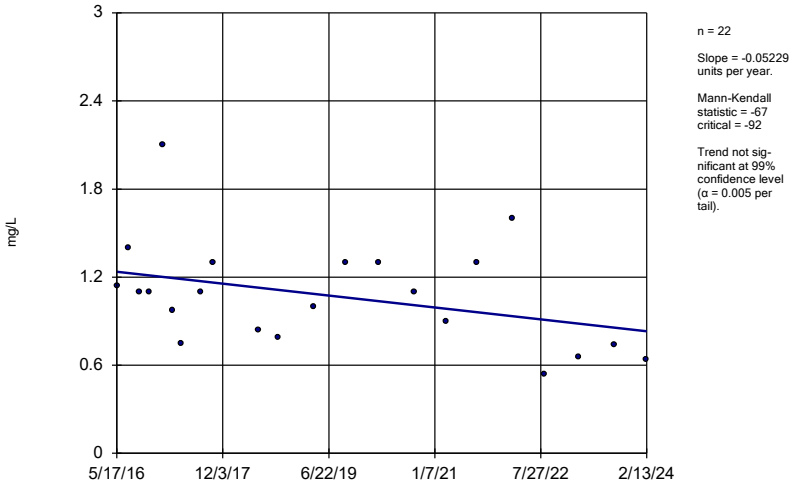
Sen's Slope Estimator

WGWA-2 (bg)



n = 22

Slope = -0.05229 units per year.

Mann-Kendall statistic = -67 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 8/9/2024 5:20 PM View: Trend Tests

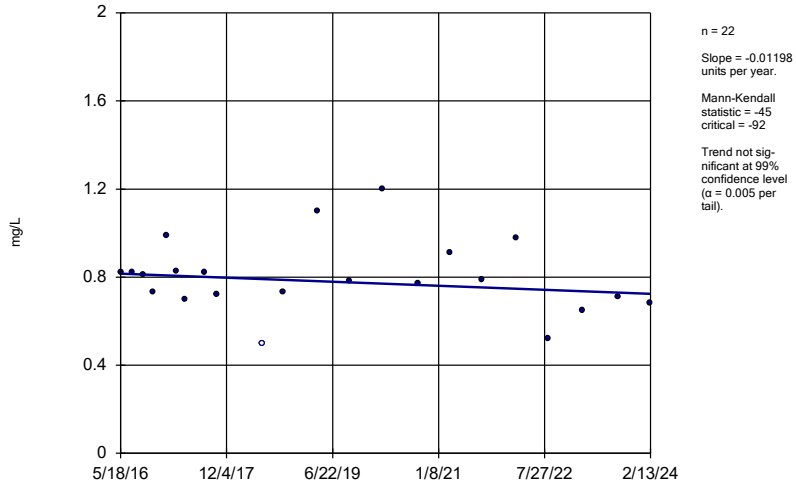
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-3 (bg)



n = 22

Slope = -0.01198 units per year.

Mann-Kendall statistic = -45 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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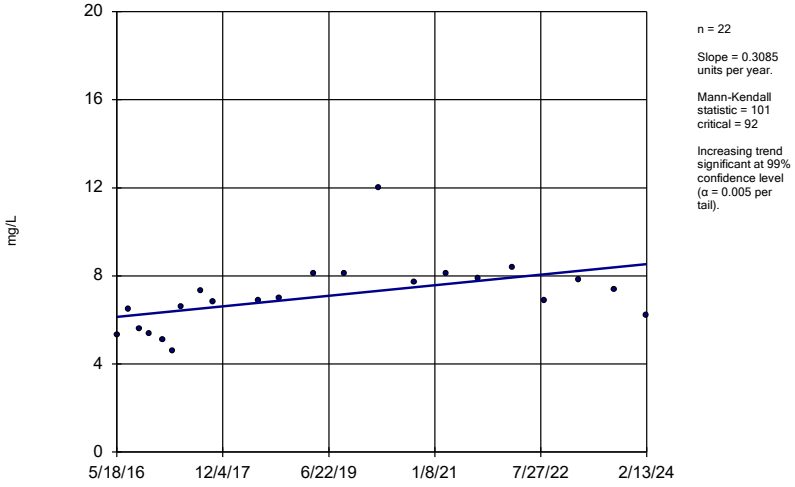
Sen's Slope Estimator

WGWA-4 (bg)



n = 22

Slope = 0.3085 units per year.

Mann-Kendall statistic = 101 critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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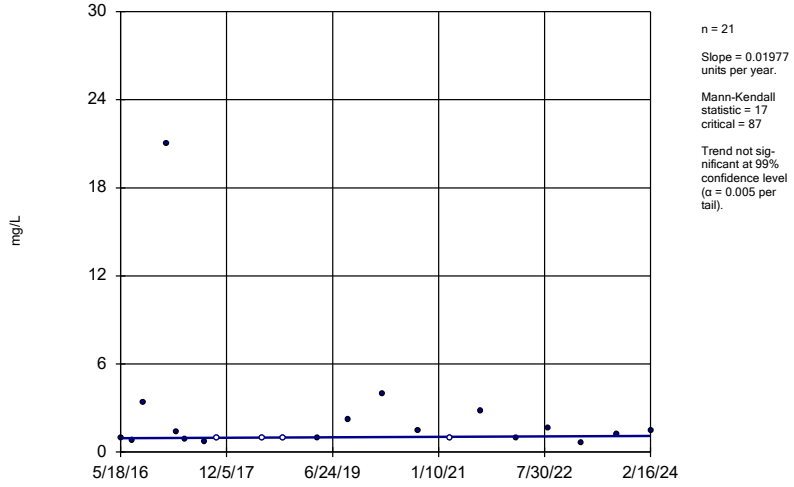
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-5 (bg)



n = 21

Slope = 0.01977 units per year.

Mann-Kendall statistic = 17 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

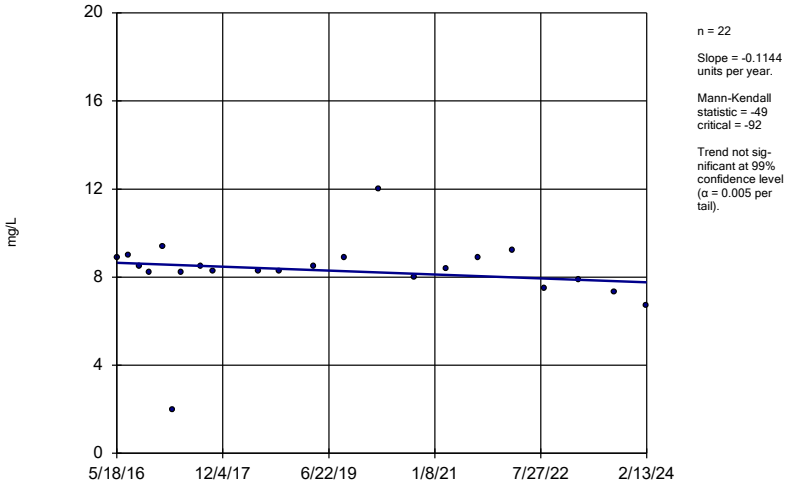
Constituent: Sulfate as SO4 Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-6 (bg)



n = 22

Slope = -0.1144 units per year.

Mann-Kendall statistic = -49 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 8/9/2024 5:20 PM View: Trend Tests

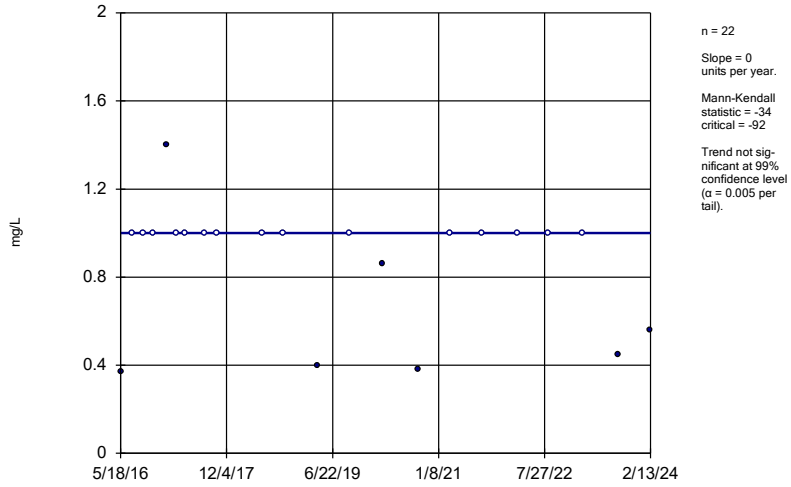
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-7 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -34 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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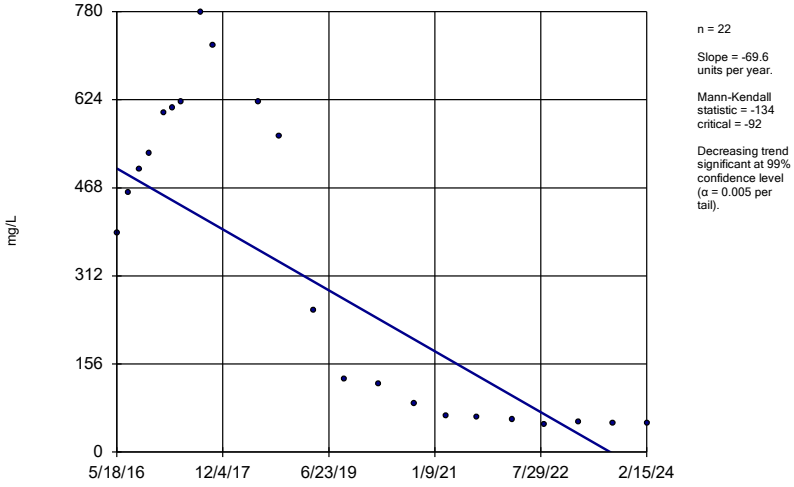
Sen's Slope Estimator

WGWC-16



n = 22

Slope = -69.6 units per year.

Mann-Kendall statistic = -134 critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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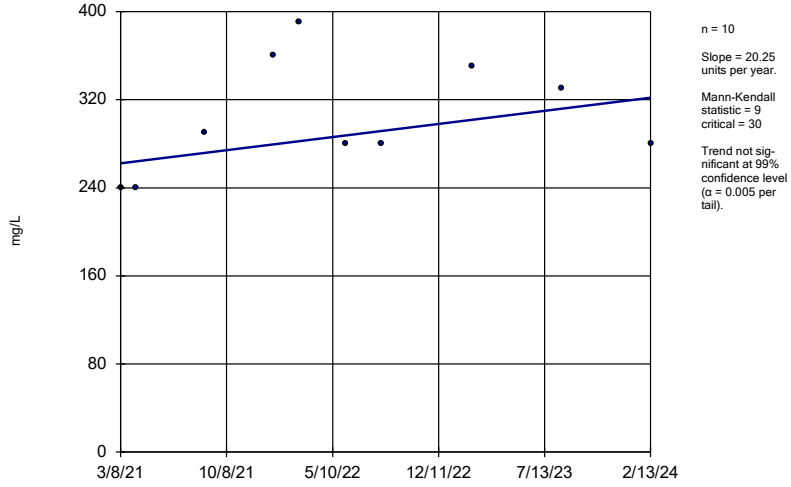
Sen's Slope Estimator

WGWC-20



n = 10

Slope = 20.25 units per year.

Mann-Kendall statistic = 9 critical = 30

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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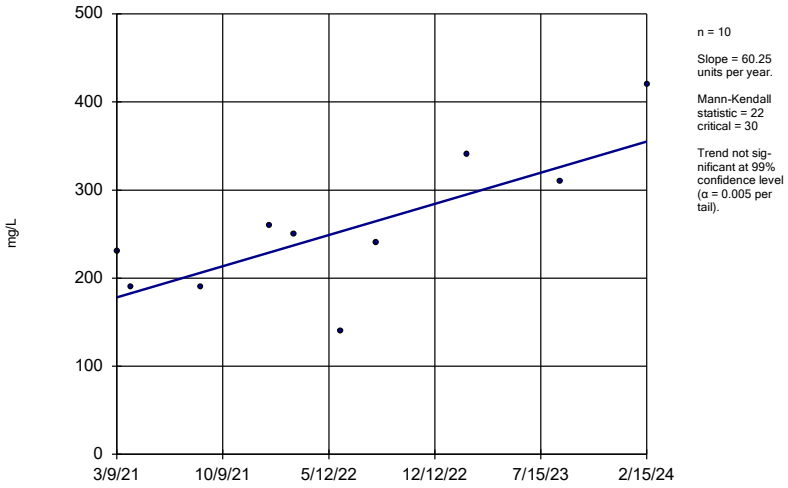
Sen's Slope Estimator

WGWC-21



n = 10

Slope = 60.25 units per year.

Mann-Kendall statistic = 22 critical = 30

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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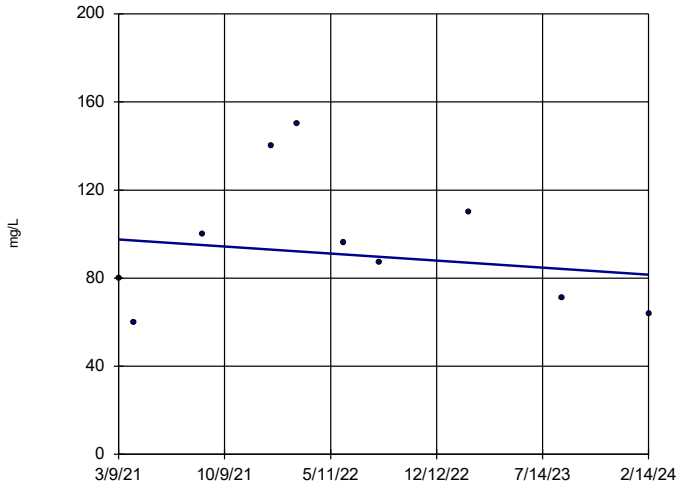
Sen's Slope Estimator

WGWC-22



n = 10

Slope = -5.448 units per year.

Mann-Kendall statistic = -5 critical = -30

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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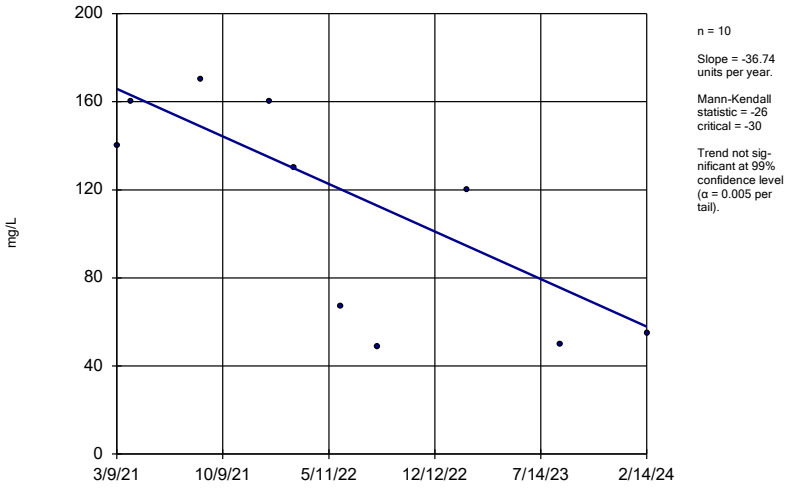
Sen's Slope Estimator

WGWC-24



n = 10

Slope = -36.74 units per year.

Mann-Kendall statistic = -26 critical = -30

Trend not significant at 99% confidence level (α = 0.005 per tail).

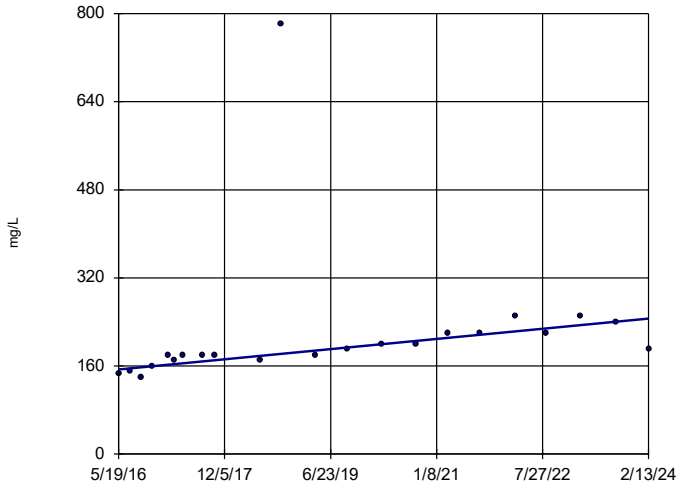
Constituent: Sulfate as SO4 Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWC-8



n = 22

Slope = 11.98 units per year.

Mann-Kendall statistic = 156 critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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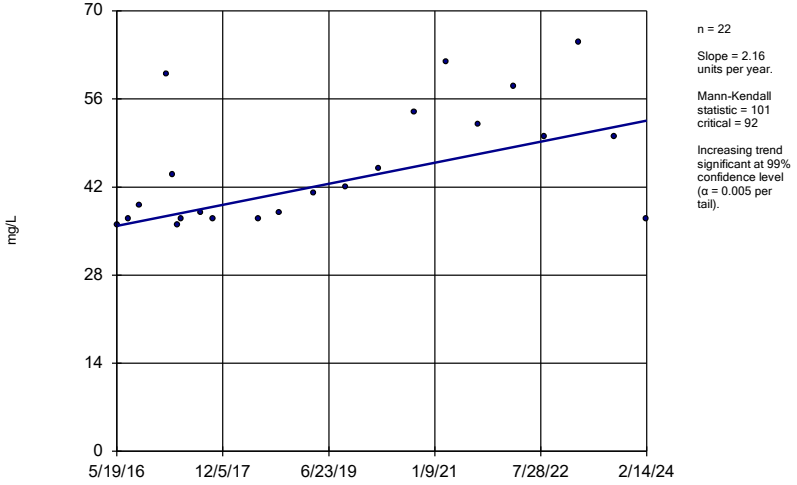
Sen's Slope Estimator

WGWC-9



n = 22

Slope = 2.16 units per year.

Mann-Kendall statistic = 101 critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 8/9/2024 5:20 PM View: Trend Tests

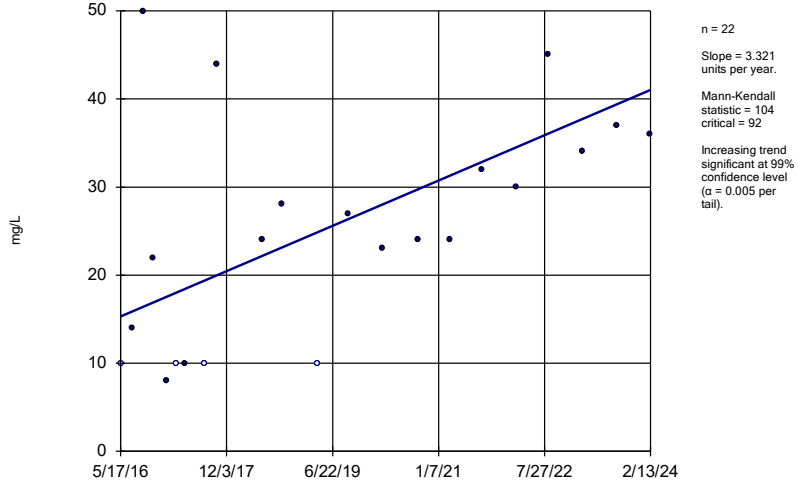
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-1 (bg)



n = 22

Slope = 3.321 units per year.

Mann-Kendall statistic = 104 critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

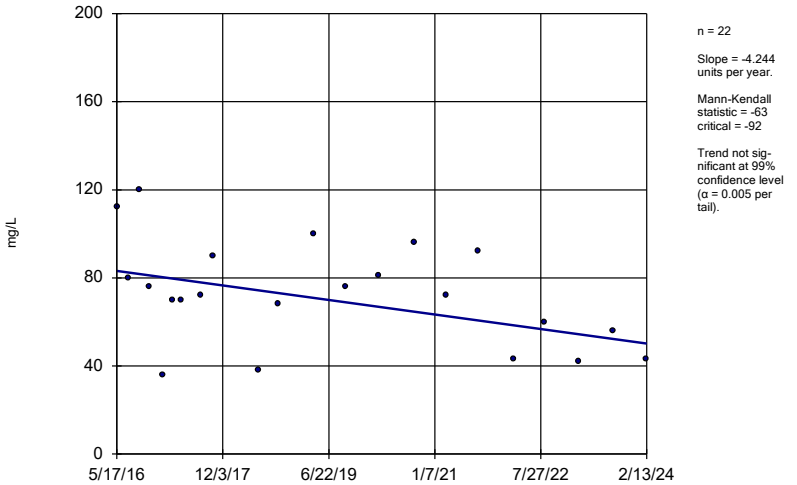
Constituent: Total Dissolved Solids [TDS] Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-18 (bg)



n = 22

Slope = -4.244 units per year.

Mann-Kendall statistic = -63 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

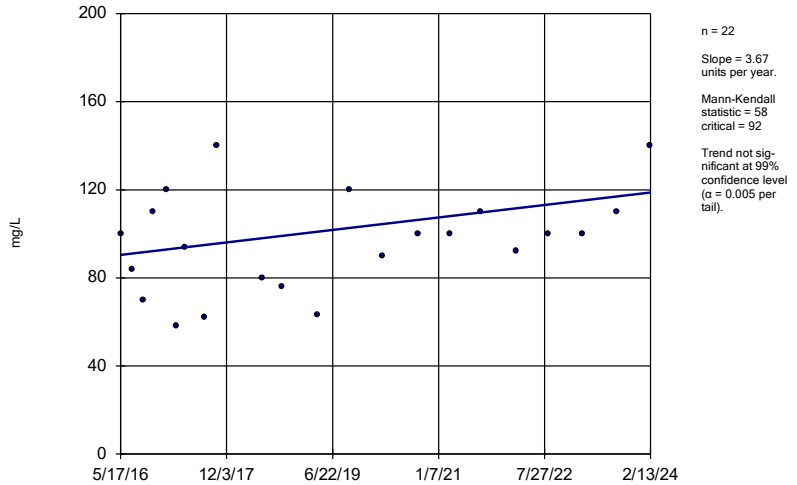
Constituent: Total Dissolved Solids [TDS] Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-2 (bg)



n = 22

Slope = 3.67 units per year.

Mann-Kendall statistic = 58 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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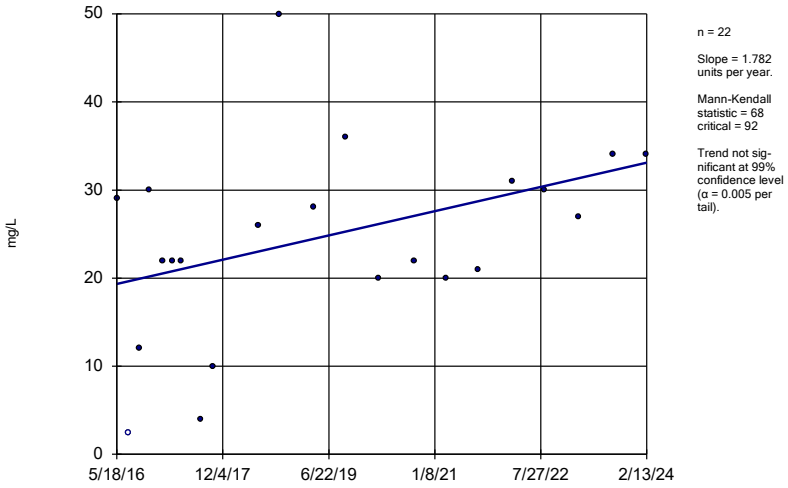
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-3 (bg)



n = 22

Slope = 1.782 units per year.

Mann-Kendall statistic = 68
critical = 92

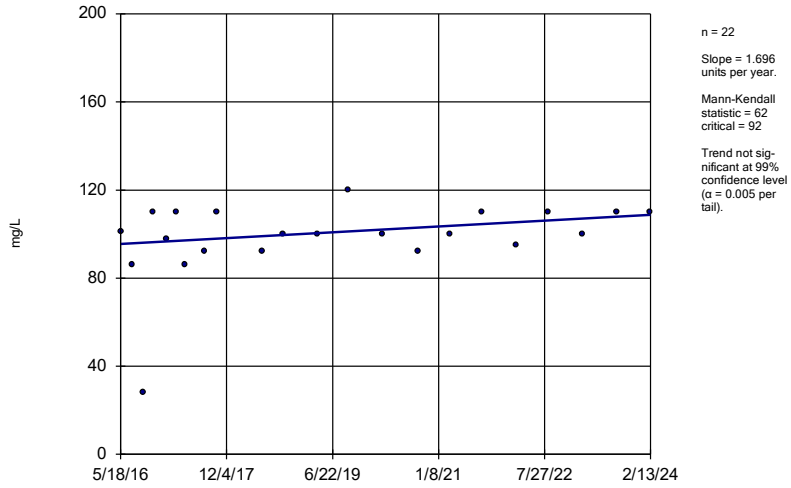
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-4 (bg)



n = 22

Slope = 1.696 units per year.

Mann-Kendall statistic = 62
critical = 92

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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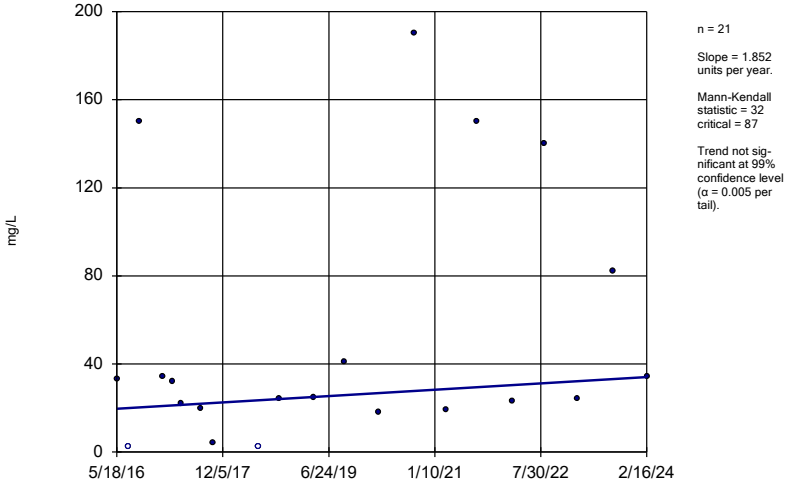
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-5 (bg)



n = 21

Slope = 1.852 units per year.

Mann-Kendall statistic = 32
critical = 87

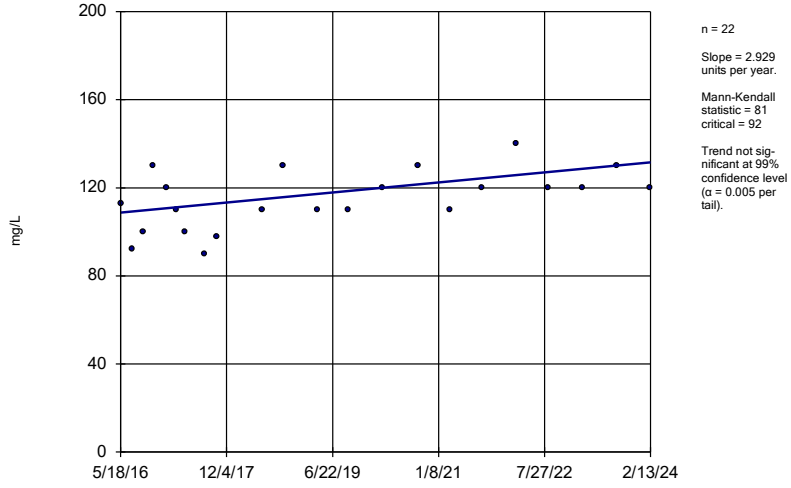
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-6 (bg)



n = 22

Slope = 2.929 units per year.

Mann-Kendall statistic = 81
critical = 92

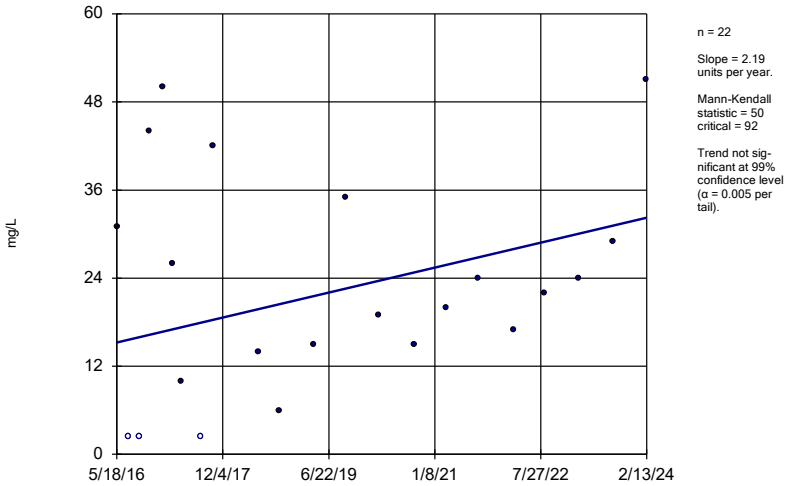
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/9/2024 5:20 PM View: Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-7 (bg)



n = 22

Slope = 2.19 units per year.

Mann-Kendall statistic = 50 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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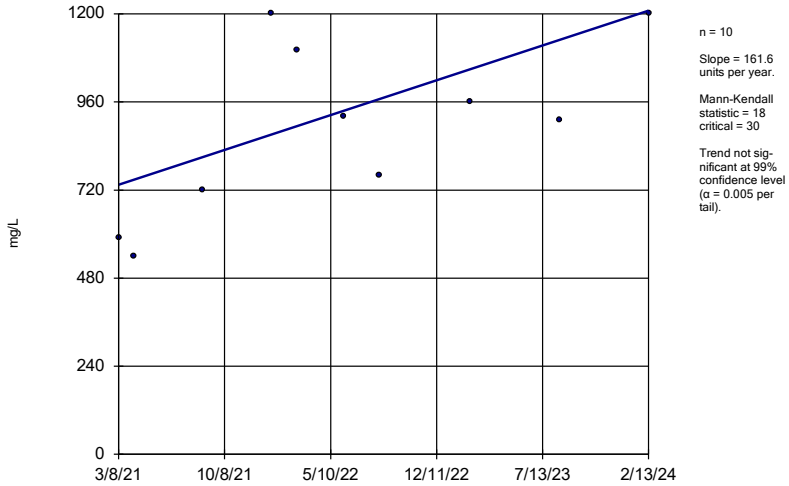
Sen's Slope Estimator

WGWC-20



n = 10

Slope = 161.6 units per year.

Mann-Kendall statistic = 18 critical = 30

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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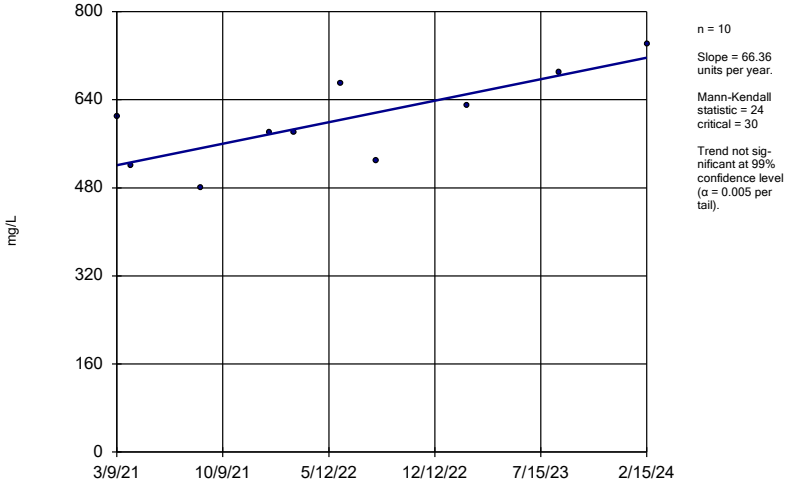
Sen's Slope Estimator

WGWC-21



n = 10

Slope = 66.36 units per year.

Mann-Kendall statistic = 24 critical = 30

Trend not significant at 99% confidence level (α = 0.005 per tail).

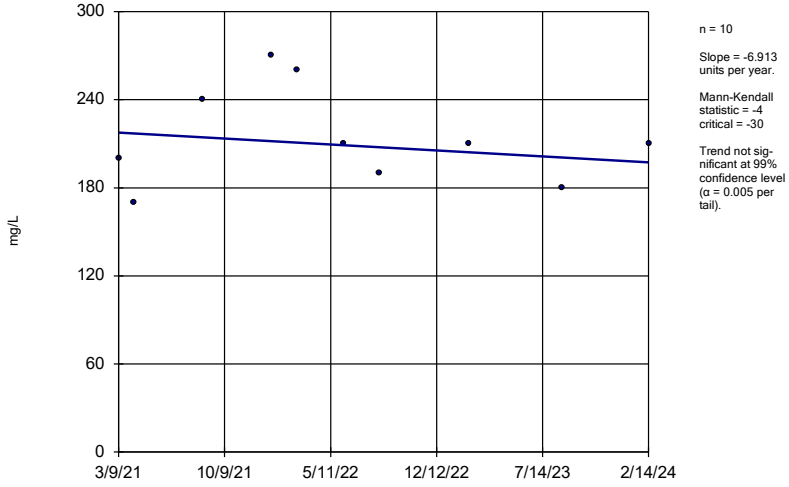
Constituent: Total Dissolved Solids [TDS] Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWC-22



n = 10

Slope = -6.913 units per year.

Mann-Kendall statistic = -4 critical = -30

Trend not significant at 99% confidence level (α = 0.005 per tail).

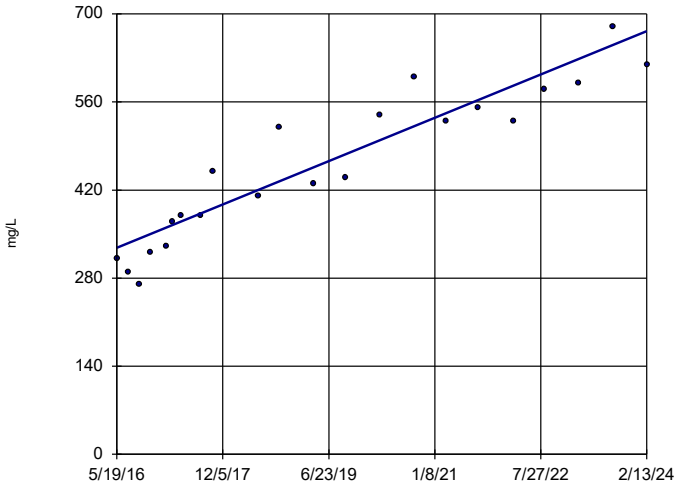
Constituent: Total Dissolved Solids [TDS] Analysis Run 8/9/2024 5:20 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWC-8



n = 22

Slope = 44.48 units per year.

Mann-Kendall statistic = 195 critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/9/2024 5:21 PM View: Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

FIGURE F.

Upper Tolerance Limits

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/11/2024, 4:44 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0022	159	n/a	n/a	98.11	n/a	n/a	0.000...	NP Inter(NDs)
Arsenic (mg/L)	0.0014	199	n/a	n/a	81.91	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.062	199	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0025	199	n/a	n/a	94.47	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.0025	183	n/a	n/a	100	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0063	198	n/a	n/a	94.44	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.013	198	n/a	n/a	46.46	n/a	n/a	NaN	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	11.4	196	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride, total (mg/L)	0.284	207	n/a	n/a	45.89	n/a	n/a	NaN	NP Inter(normality)
Lead (mg/L)	0.001	183	n/a	n/a	89.62	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.009	189	n/a	n/a	51.32	n/a	n/a	NaN	NP Inter(NDs)
Mercury (mg/L)	0.0002	167	n/a	n/a	91.62	n/a	n/a	0.000...	NP Inter(NDs)
Molybdenum (mg/L)	0.015	198	n/a	n/a	91.41	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	199	n/a	n/a	95.48	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	199	n/a	n/a	93.47	n/a	n/a	NaN	NP Inter(NDs)

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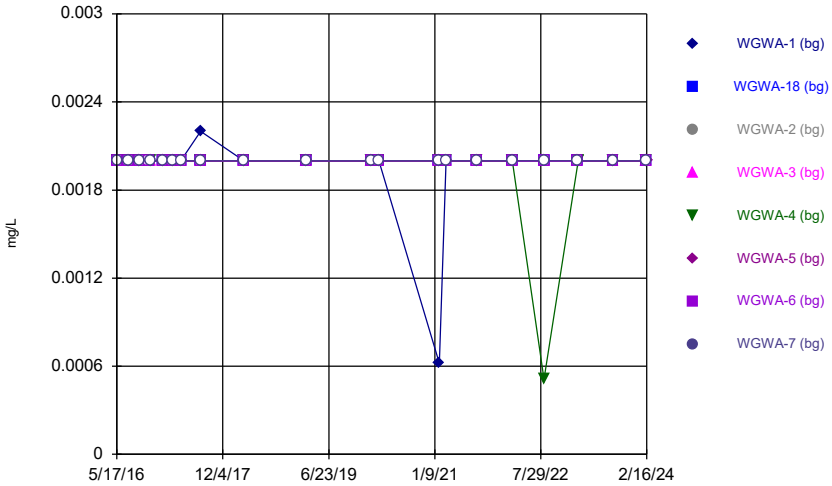
Hollow symbols indicate censored values.

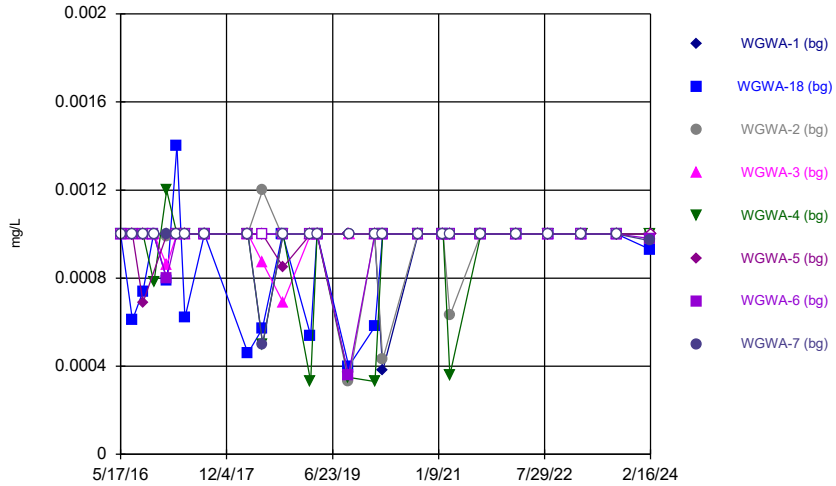
Time Series



Constituent: Antimony Analysis Run 4/11/2024 4:43 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

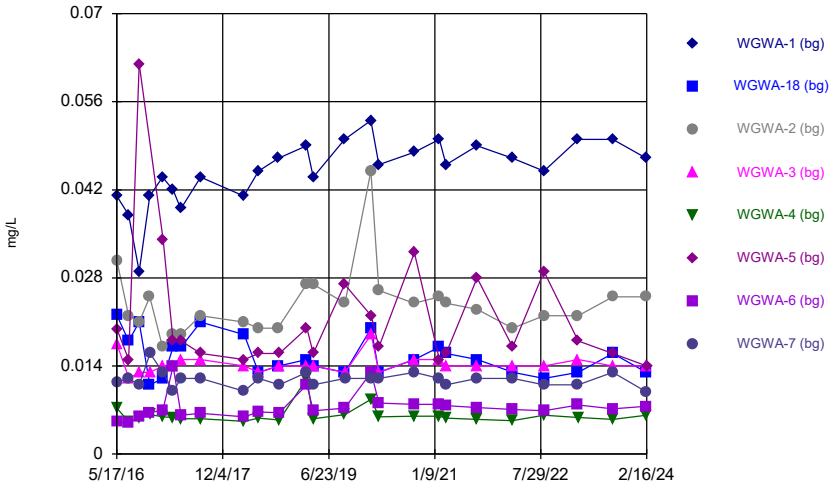
Time Series



Constituent: Arsenic Analysis Run 4/11/2024 4:43 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

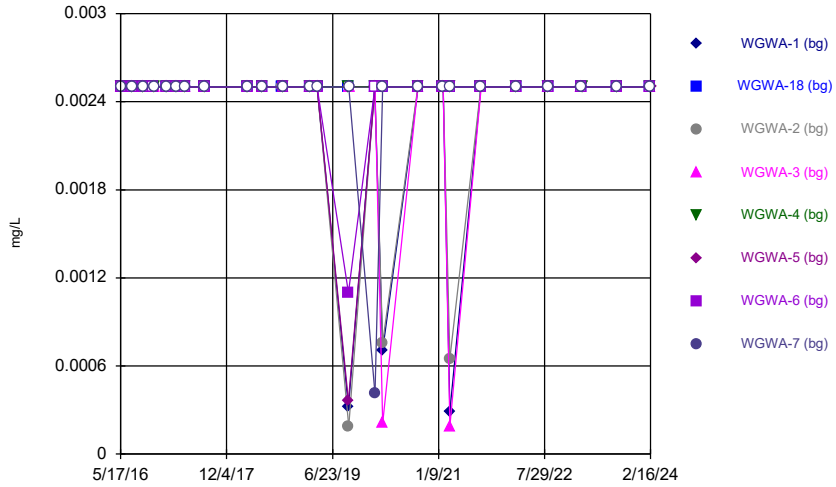
Time Series



Constituent: Barium Analysis Run 4/11/2024 4:43 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

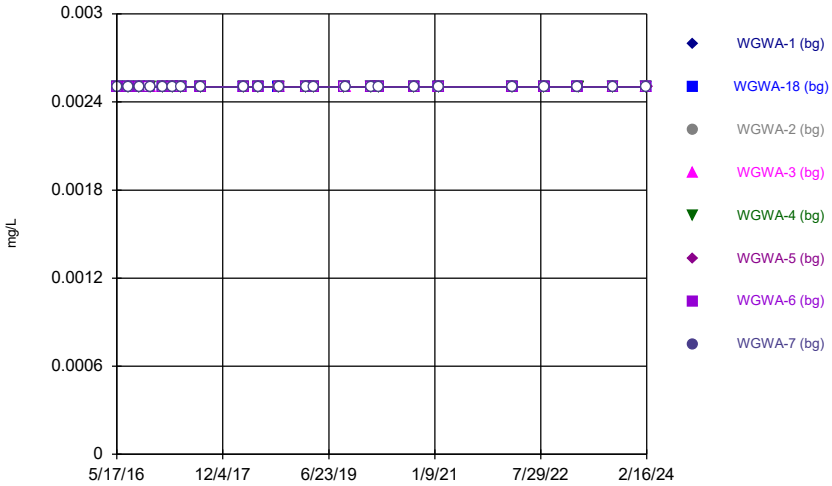
Time Series



Constituent: Beryllium Analysis Run 4/11/2024 4:43 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

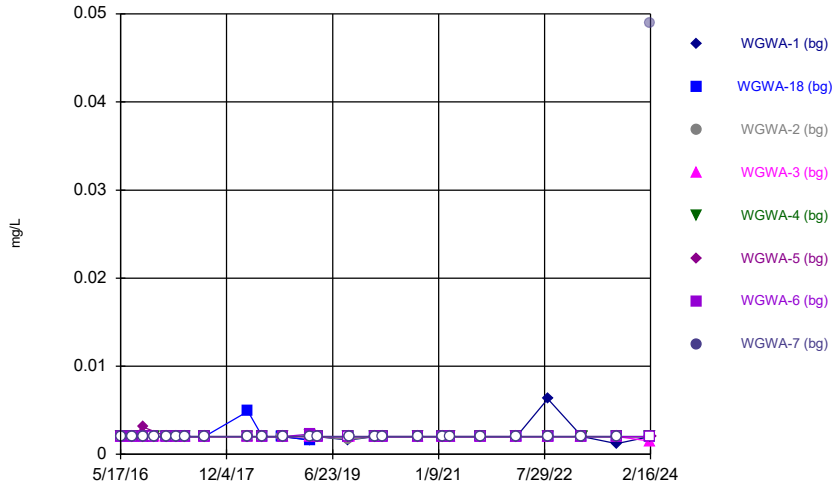
Time Series



Constituent: Cadmium Analysis Run 4/11/2024 4:43 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

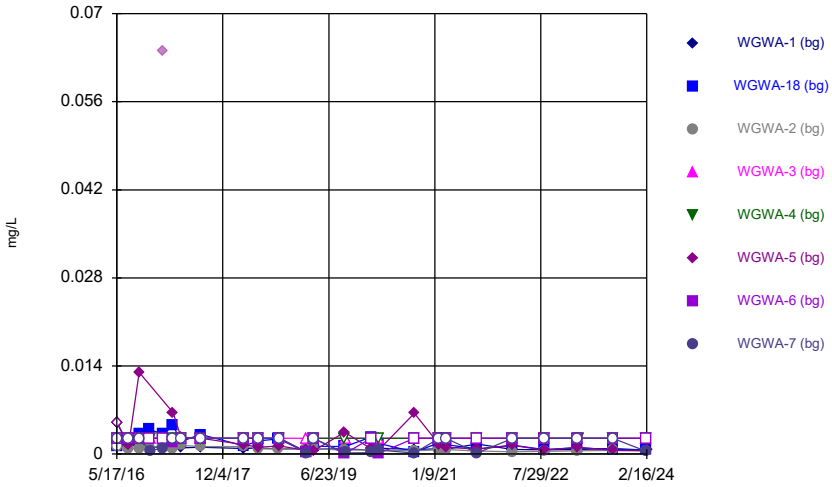
Time Series



Constituent: Chromium Analysis Run 4/11/2024 4:43 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

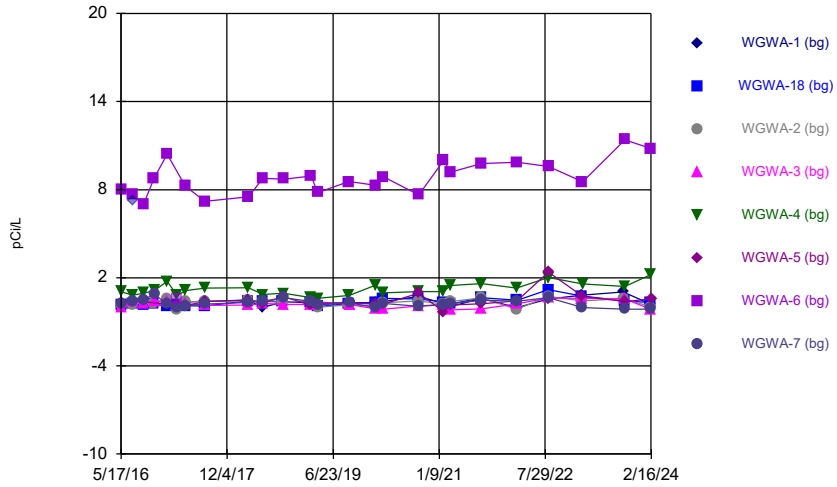
Time Series



Constituent: Cobalt Analysis Run 4/11/2024 4:43 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

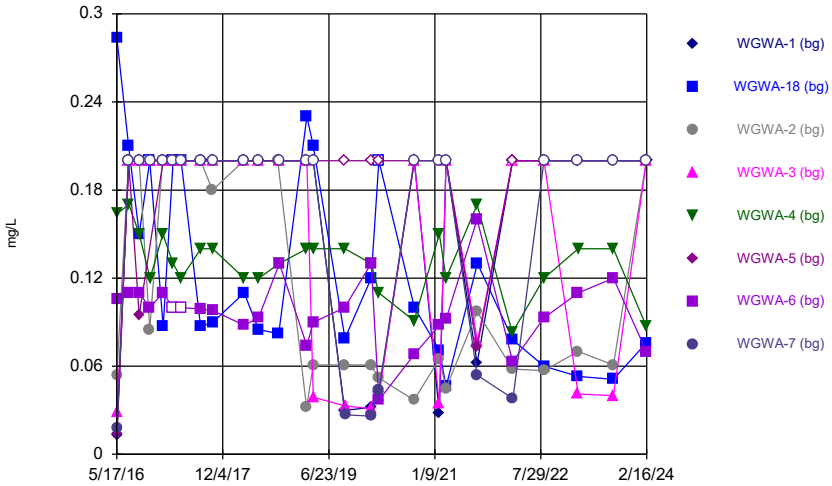
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/11/2024 4:43 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

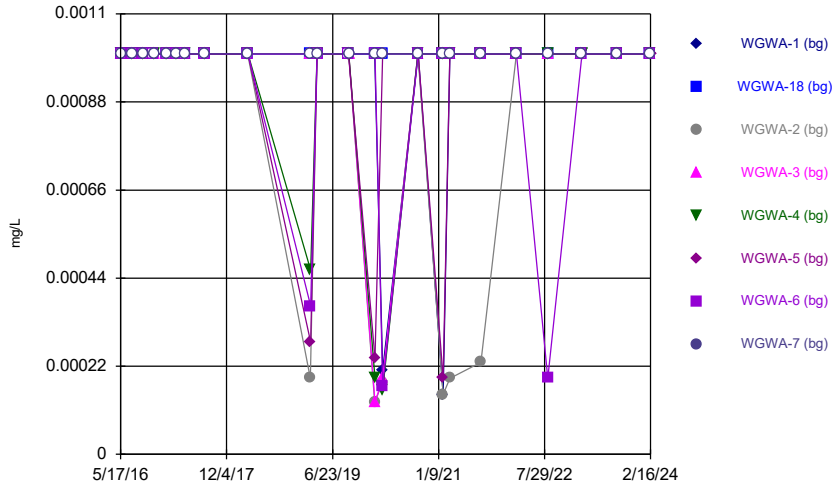
Time Series



Constituent: Fluoride, total Analysis Run 4/11/2024 4:43 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

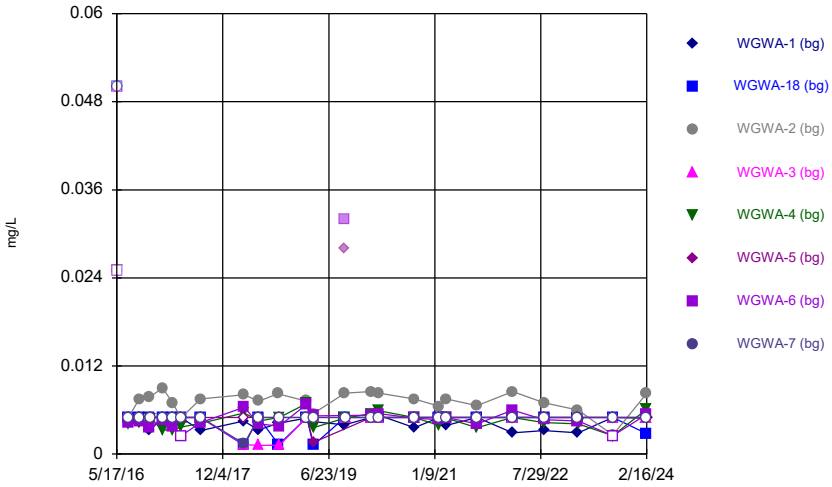
Time Series



Constituent: Lead Analysis Run 4/11/2024 4:43 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

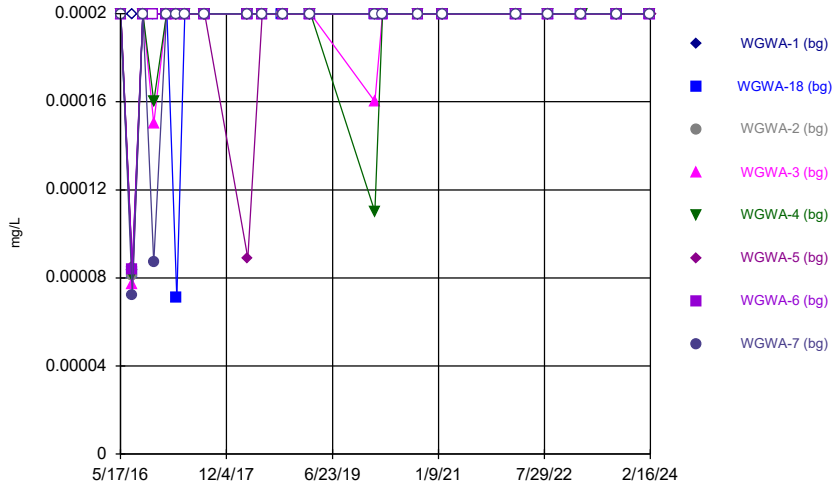
Time Series



Constituent: Lithium Analysis Run 4/11/2024 4:43 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

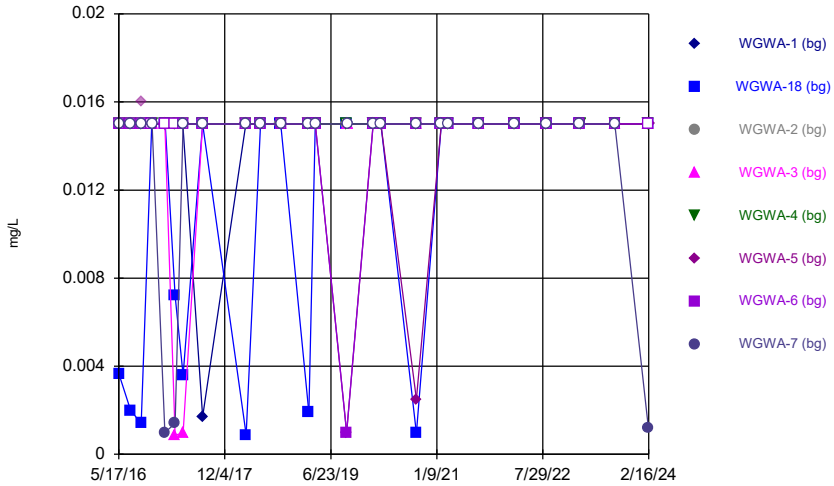
Time Series



Constituent: Mercury Analysis Run 4/11/2024 4:43 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

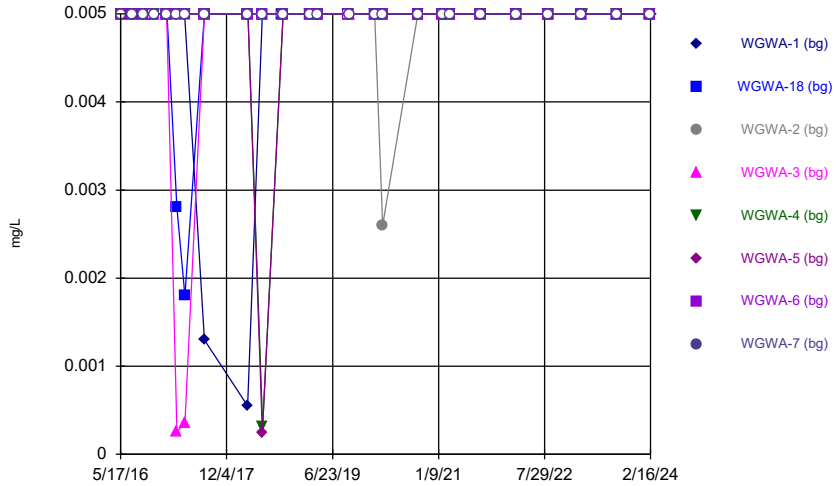
Time Series



Constituent: Molybdenum Analysis Run 4/11/2024 4:43 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

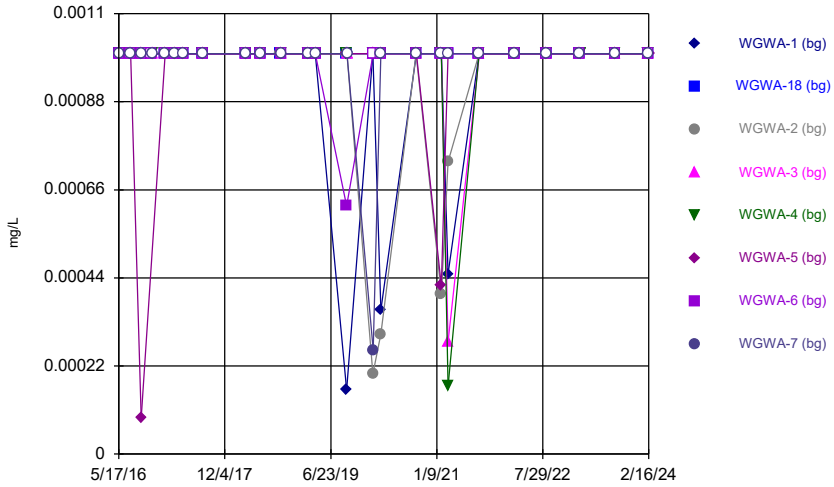
Time Series



Constituent: Selenium Analysis Run 4/11/2024 4:43 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

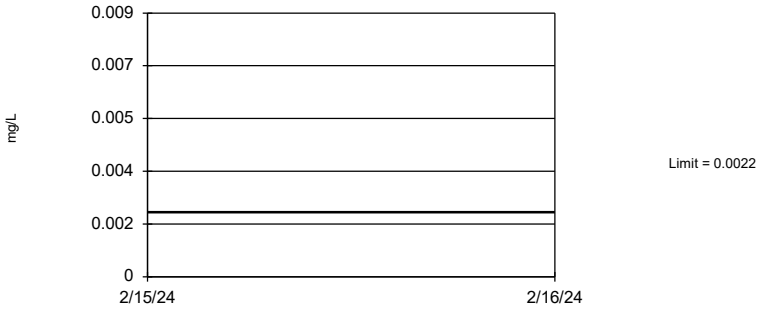


Constituent: Thallium Analysis Run 4/11/2024 4:43 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



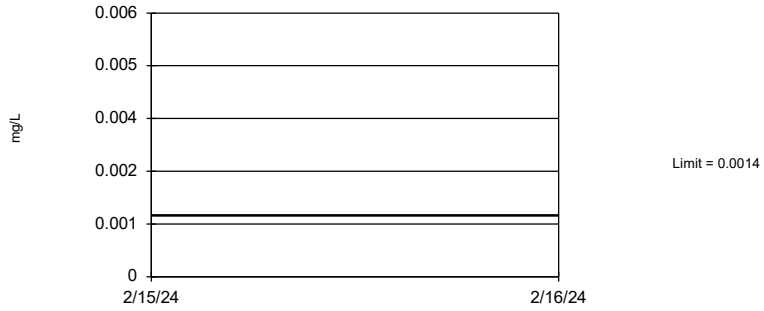
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 159 background values. 98.11% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002871.

Constituent: Antimony Analysis Run 4/11/2024 4:42 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 199 background values. 81.91% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Arsenic Analysis Run 4/11/2024 4:42 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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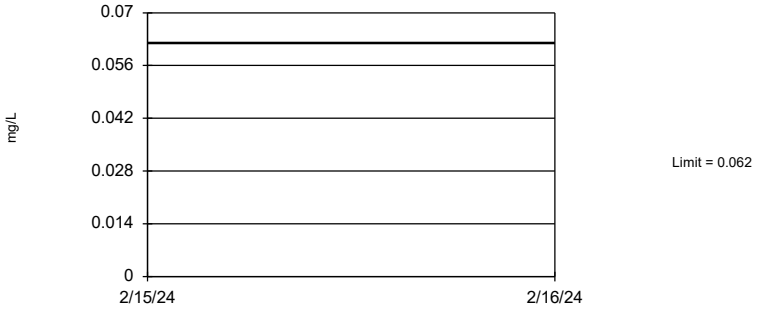
Tolerance Limit

Interwell Non-parametric



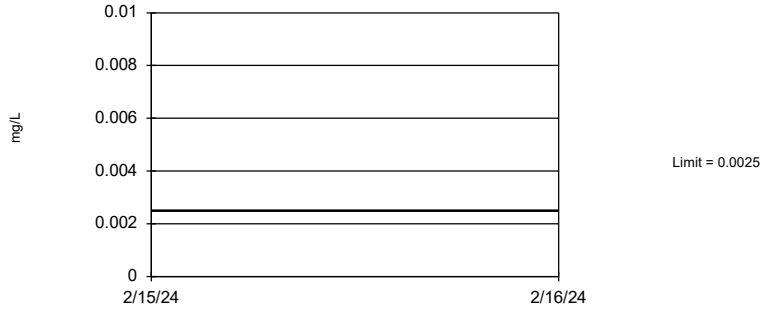
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 199 background values. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Barium Analysis Run 4/11/2024 4:42 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 199 background values. 94.47% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Beryllium Analysis Run 4/11/2024 4:42 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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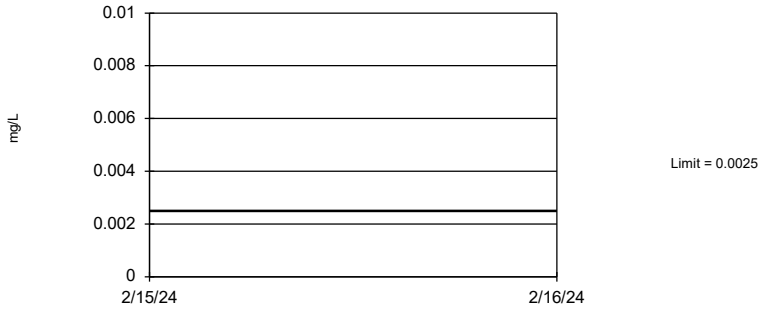
Tolerance Limit

Interwell Non-parametric



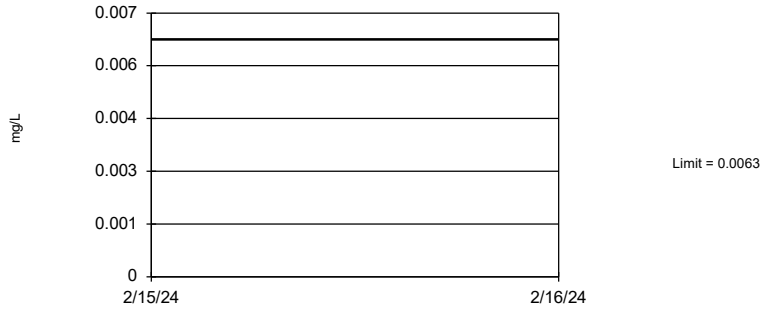
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cadmium Analysis Run 4/11/2024 4:42 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



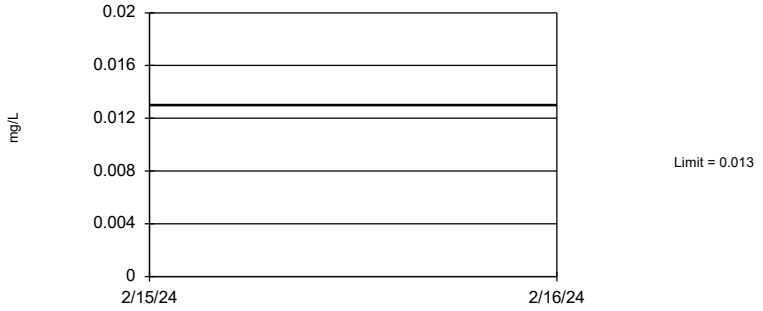
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 198 background values. 94.44% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Chromium Analysis Run 4/11/2024 4:42 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



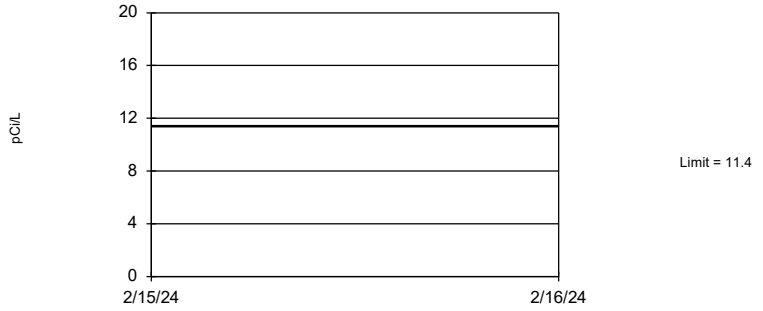
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 198 background values. 46.46% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cobalt Analysis Run 4/11/2024 4:42 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 196 background values. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Combined Radium 226 + 228 Analysis Run 4/11/2024 4:42 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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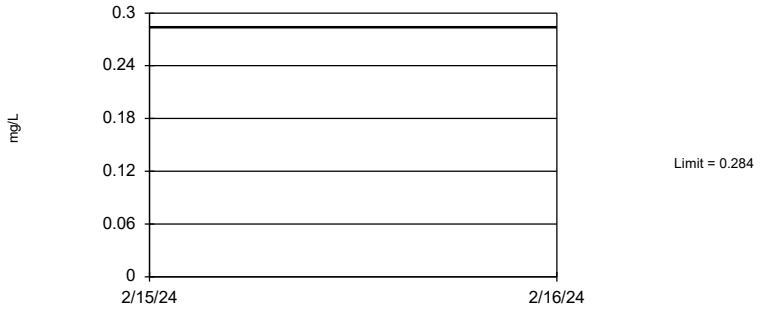
Tolerance Limit

Interwell Non-parametric



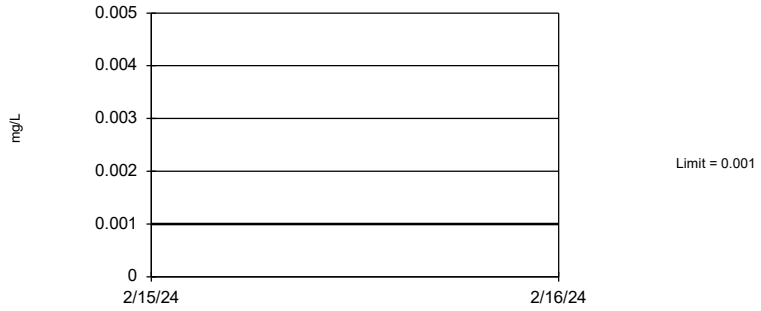
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 207 background values. 45.89% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Fluoride, total Analysis Run 4/11/2024 4:42 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



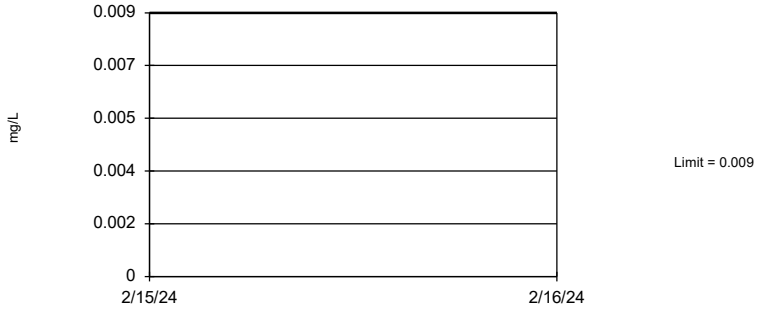
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 183 background values. 89.62% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lead Analysis Run 4/11/2024 4:42 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



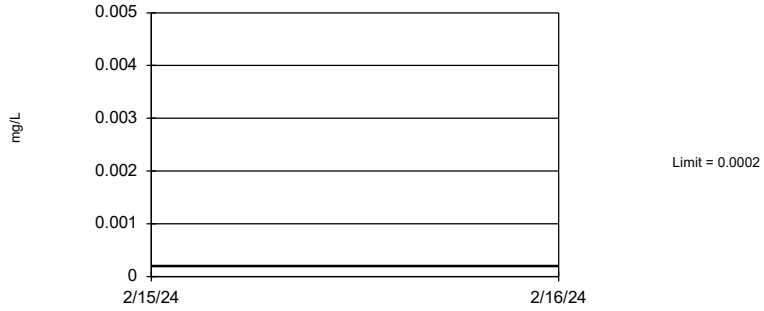
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 189 background values. 51.32% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lithium Analysis Run 4/11/2024 4:42 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



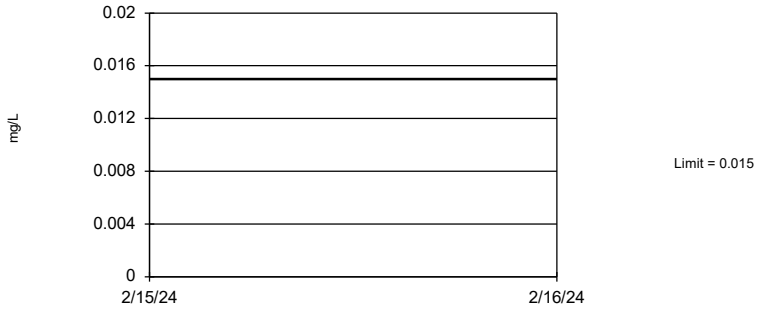
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 167 background values. 91.62% NDs. 97.46% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0001905.

Constituent: Mercury Analysis Run 4/11/2024 4:42 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



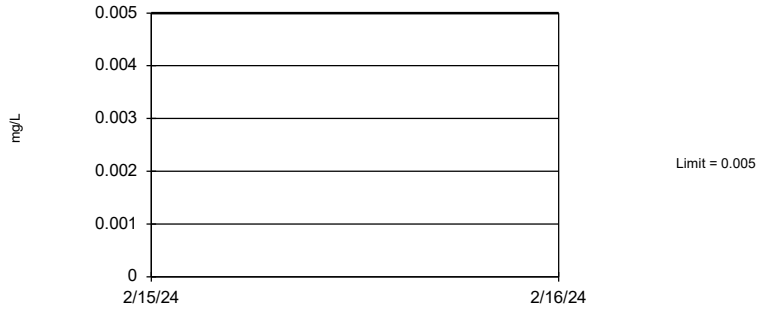
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 198 background values. 91.41% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Molybdenum Analysis Run 4/11/2024 4:42 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



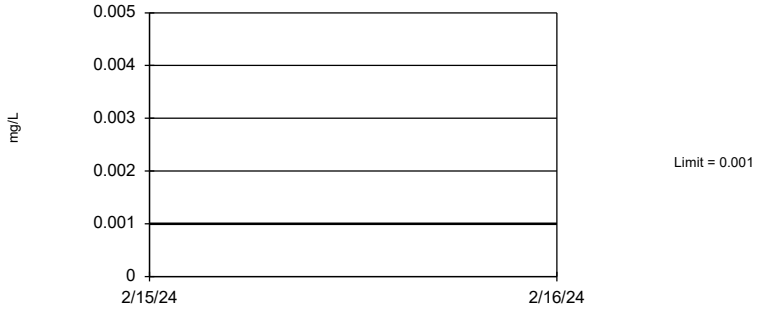
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 199 background values. 95.48% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Selenium Analysis Run 4/11/2024 4:42 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 199 background values. 93.47% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Thallium Analysis Run 4/11/2024 4:43 PM View: UTLs
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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		0.0063	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.013	0.013
Combined Radium, Total (pCi/L)	5		11.4	11.4
Fluoride, Total (mg/L)	4		0.28	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 Summary Table - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/18/2024, 12:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	**WGWC-20**	**0.01167**	**0.008327**	**0.004**	**Yes**	**8**	**0.01**	**0.001578**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	**WGWC-24**	**0.01281**	**0.004665**	**0.004**	**Yes**	**8**	**0.008738**	**0.003842**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	**WGWC-24**	**0.11**	**0.0307**	**0.013**	**Yes**	**8**	**0.07038**	**0.03743**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**WGWC-19**	**0.05615**	**0.04937**	**0.04**	**Yes**	**25**	**0.05276**	**0.006802**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**WGWC-20**	**0.15**	**0.11**	**0.04**	**Yes**	**10**	**0.127**	**0.01703**	**0**	**None**	**No**	**0.011**	**NP (normality)**

Confidence Interval Summary Table - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/18/2024, 12:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	WGWC-11	0.002	0.00053	0.006	No	20	0.001927	0.0003287	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-12	0.0023	0.002	0.006	No	20	0.002015	0.00006708	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-19	0.002	0.00058	0.006	No	20	0.001929	0.0003175	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-20	0.002	0.00044	0.006	No	8	0.001361	0.0007062	50	None	No	0.004	NP (normality)
Antimony (mg/L)	WGWC-21	0.002	0.00053	0.006	No	8	0.00148	0.0007209	62.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	WGWC-22	0.001039	0.0006064	0.006	No	8	0.001263	0.0006368	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Antimony (mg/L)	WGWC-23	0.001944	0.001003	0.006	No	8	0.001813	0.0003643	50	Kaplan-Meier	x^3	0.01	Param.
Antimony (mg/L)	WGWC-27	0.001901	0	0.006	No	4	0.001133	0.0007426	25	Kaplan-Meier	No	0.01	Param.
Antimony (mg/L)	WGWC-8	0.0079	0.00064	0.006	No	20	0.002677	0.00239	85	Kaplan-Meier	No	0.01	NP (NDs)
Antimony (mg/L)	WGWC-9	0.0043	0.0011	0.006	No	20	0.002305	0.001877	60	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-10	0.001	0.00089	0.01	No	25	0.0008972	0.000231	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-11	0.001	0.00054	0.01	No	25	0.0009408	0.0001639	88	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-12	0.001	0.001	0.01	No	25	0.0009348	0.0001816	84	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-13	0.001	0.00048	0.01	No	25	0.0007992	0.0003135	52	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-14A	0.0014	0.00095	0.01	No	25	0.001194	0.0005296	72	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-15	0.001913	0.001076	0.01	No	25	0.001494	0.00084	12	None	No	0.01	Param.
Arsenic (mg/L)	WGWC-16	0.0013	0.001	0.01	No	25	0.001126	0.0003015	60	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-17	0.001	0.00076	0.01	No	25	0.000872	0.0001968	60	None	No	0.01	NP (NDs)
Arsenic (mg/L)	WGWC-20	0.001	0.00031	0.01	No	8	0.0007425	0.0003101	37.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	WGWC-21	0.0007161	0.0003119	0.01	No	8	0.0006963	0.0002987	37.5	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-22	0.0011	0.00029	0.01	No	8	0.0008563	0.0003025	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Arsenic (mg/L)	WGWC-24	0.002525	0.0001603	0.01	No	8	0.00149	0.001085	25	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-25	0.001	0.00096	0.01	No	8	0.000995	0.00001414	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	WGWC-8	0.001009	0.0006478	0.01	No	25	0.001008	0.0002997	44	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	WGWC-9	0.0017	0.00078	0.01	No	25	0.000998	0.0001848	88	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	WGWC-10	0.03988	0.03437	2	No	25	0.03744	0.0062	0	None	ln(x)	0.01	Param.
Barium (mg/L)	WGWC-11	0.04108	0.03372	2	No	25	0.0374	0.007377	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-12	0.019	0.015	2	No	25	0.01682	0.003805	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-13	0.05348	0.04436	2	No	25	0.04892	0.009151	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-14A	0.04072	0.02967	2	No	25	0.03664	0.01334	0	None	ln(x)	0.01	Param.
Barium (mg/L)	WGWC-15	0.02582	0.02151	2	No	25	0.02366	0.004319	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-16	0.05366	0.03914	2	No	25	0.04722	0.01494	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	WGWC-17	0.018	0.011	2	No	25	0.01416	0.003947	0	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-19	0.01	0.0012	2	No	25	0.004321	0.004112	32	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-20	0.01	0.00091	2	No	8	0.008864	0.003214	87.5	None	No	0.004	NP (NDs)
Barium (mg/L)	WGWC-21	0.00816	0.004565	2	No	8	0.006363	0.001696	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-22	0.03983	0.02317	2	No	8	0.0315	0.007856	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-23	0.009706	0.005844	2	No	8	0.007775	0.001822	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-24	0.04726	0.02924	2	No	8	0.03825	0.008498	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-25	0.4117	0.2083	2	No	8	0.31	0.09592	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-27	0.005675	0.002925	2	No	4	0.0043	0.0006055	0	None	No	0.01	Param.
Barium (mg/L)	WGWC-8	0.01	0.0013	2	No	25	0.004676	0.004132	36	None	No	0.01	NP (normality)
Barium (mg/L)	WGWC-9	0.01	0.0014	2	No	25	0.005489	0.004447	48	None	No	0.01	NP (normality)
Beryllium (mg/L)	WGWC-14A	0.0025	0.00026	0.004	No	25	0.001691	0.001101	64	None	No	0.01	NP (NDs)
Beryllium (mg/L)	WGWC-16	0.0025	0.00022	0.004	No	25	0.002409	0.000456	96	None	No	0.01	NP (NDs)
Beryllium (mg/L)	**WGWC-20**	**0.01167**	**0.008327**	**0.004**	**Yes**	**8**	**0.01**	**0.001578**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	WGWC-21	0.0025	0.00021	0.004	No	8	0.001642	0.001183	62.5	None	No	0.004	NP (NDs)
Beryllium (mg/L)	WGWC-22	0.0006619	0.0005006	0.004	No	8	0.0005813	0.00007605	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-23	0.001298	0.0008871	0.004	No	8	0.001093	0.0001938	0	None	No	0.01	Param.
Beryllium (mg/L)	**WGWC-24**	**0.01281**	**0.004665**	**0.004**	**Yes**	**8**	**0.008738**	**0.003842**	**0**	**None**	**No**	**0.01**	**Param.**
Beryllium (mg/L)	WGWC-25	0.0025	0.0002	0.004	No	8	0.001095	0.001164	37.5	None	No	0.004	NP (normality)
Beryllium (mg/L)	WGWC-27	0.0012	0.00046	0.004	No	4	0.00068	0.0003483	0	None	No	0.0625	NP (normality)
Beryllium (mg/L)	WGWC-8	0.002212	0.001704	0.004	No	25	0.001958	0.00051	0	None	No	0.01	Param.
Beryllium (mg/L)	WGWC-9	0.0025	0.00036	0.004	No	25	0.001146	0.001038	36	None	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-10	0.0025	0.00021	0.005	No	23	0.0024	0.0004775	95.65	None	No	0.01	NP (NDs)

Confidence Interval Summary Table - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/18/2024, 12:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	WGWC-16	0.0025	0.00047	0.005	No	23	0.001271	0.001021	39.13	None	No	0.01	NP (normality)
Cadmium (mg/L)	WGWC-20	0.0025	0.00019	0.005	No	8	0.00143	0.001149	50	None	No	0.004	NP (normality)
Cadmium (mg/L)	WGWC-22	0.0025	0.00009	0.005	No	8	0.001344	0.001238	50	None	No	0.004	NP (normality)
Cadmium (mg/L)	WGWC-24	0.0005283	0.0001355	0.005	No	8	0.0003319	0.0001853	0	None	No	0.01	Param.
Cadmium (mg/L)	WGWC-25	0.0025	0.0001	0.005	No	8	0.001902	0.001106	75	None	No	0.004	NP (NDs)
Cadmium (mg/L)	WGWC-27	0.0025	0.00008	0.005	No	4	0.001895	0.00121	75	None	No	0.0625	NP (NDs)
Cadmium (mg/L)	WGWC-8	0.0025	0.00065	0.005	No	23	0.002226	0.0007285	86.96	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-10	0.002359	0.001625	0.1	No	25	0.001992	0.0007359	12	None	No	0.01	Param.
Chromium (mg/L)	WGWC-11	0.002	0.0017	0.1	No	25	0.001924	0.000242	84	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-13	0.002	0.0019	0.1	No	25	0.001976	0.00007234	88	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-14A	0.002	0.0017	0.1	No	25	0.001988	0.00006	96	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-15	0.002	0.0015	0.1	No	25	0.00198	0.0001	96	None	No	0.01	NP (NDs)
Chromium (mg/L)	WGWC-21	0.002	0.0015	0.1	No	8	0.001938	0.0001768	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	WGWC-9	0.0025	0.002	0.1	No	25	0.00202	0.0001	92	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-10	0.001366	0.0007574	0.013	No	25	0.001125	0.0007022	12	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-11	0.0025	0.00069	0.013	No	25	0.001654	0.0009451	44	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-12	0.000911	0.0004261	0.013	No	25	0.0008748	0.0009949	4	None	ln(x)	0.01	Param.
Cobalt (mg/L)	WGWC-13	0.0025	0.0008	0.013	No	25	0.001997	0.0009197	76	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-14A	0.008255	0.004115	0.013	No	25	0.006696	0.004487	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-15	0.0025	0.00015	0.013	No	25	0.002406	0.00047	96	None	No	0.01	NP (NDs)
Cobalt (mg/L)	WGWC-16	0.004253	0.0006033	0.013	No	25	0.005893	0.005861	28	Kaplan-Meier	x^(1/3)	0.01	Param.
Cobalt (mg/L)	WGWC-17	0.001117	0.0005199	0.013	No	25	0.001364	0.0008731	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	WGWC-19	0.0025	0.00025	0.013	No	25	0.001286	0.001103	44	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-20	0.0025	0.00037	0.013	No	8	0.001979	0.0009655	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	WGWC-21	0.0025	0.00032	0.013	No	8	0.001256	0.001051	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	WGWC-22	0.0025	0.00025	0.013	No	8	0.001684	0.001127	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	WGWC-23	0.0025	0.00016	0.013	No	8	0.001916	0.001081	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	**WGWC-24**	**0.11**	**0.0307**	**0.013**	**Yes**	**8**	**0.07038**	**0.03743**	**0**	**None**	**No**	**0.01**	**Param.**
Cobalt (mg/L)	WGWC-25	0.006632	0.003618	0.013	No	8	0.005125	0.001422	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-27	0.002403	0.001047	0.013	No	4	0.001725	0.0002986	0	None	No	0.01	Param.
Cobalt (mg/L)	WGWC-8	0.0025	0.00075	0.013	No	25	0.001798	0.001011	48	None	No	0.01	NP (normality)
Cobalt (mg/L)	WGWC-9	0.0025	0.00073	0.013	No	25	0.002429	0.000354	96	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	WGWC-10	0.4195	0.1815	11.4	No	25	0.3005	0.2387	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-11	0.5712	0.2098	11.4	No	25	0.3905	0.3625	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-12	0.5726	0.2365	11.4	No	25	0.4046	0.3371	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-13	0.7327	0.4349	11.4	No	25	0.5838	0.2987	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-14A	0.798	0.5292	11.4	No	25	0.6833	0.2973	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-15	0.5843	0.2807	11.4	No	25	0.4719	0.3342	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-16	1.512	0.7444	11.4	No	25	1.225	0.8575	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-17	0.5179	0.1789	11.4	No	25	0.3484	0.34	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-19	0.5328	0.228	11.4	No	25	0.3804	0.3058	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-20	1.301	0.6451	11.4	No	8	0.9729	0.3092	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-21	2.206	0.7225	11.4	No	8	1.465	0.7	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-22	6.876	3.541	11.4	No	8	5.209	1.573	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-23	1.496	0.2317	11.4	No	8	0.8639	0.5964	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-24	1.431	0.6877	11.4	No	8	1.052	0.3715	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-25	0.9514	0.5319	11.4	No	8	0.7416	0.1979	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-27	8.472	-2.45	11.4	No	4	3.011	2.405	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-8	2.25	1.542	11.4	No	25	1.896	0.711	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	WGWC-9	0.3961	0.1708	11.4	No	25	0.2835	0.226	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-10	0.1629	0.1205	4	No	26	0.1417	0.04352	3.846	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-11	0.2	0.045	4	No	26	0.1331	0.07838	53.85	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	WGWC-12	0.0947	0.07011	4	No	26	0.1055	0.04707	15.38	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	WGWC-13	0.2706	0.1997	4	No	26	0.2352	0.07267	3.846	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-14A	0.2	0.048	4	No	26	0.1458	0.07627	65.38	None	No	0.01	NP (NDs)

Confidence Interval Summary Table - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/18/2024, 12:38 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	WGWC-15	0.8543	0.7687	4	No	26	0.8115	0.08782	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-16	0.13	0.067	4	No	26	0.141	0.166	11.54	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	WGWC-17	0.1246	0.08274	4	No	26	0.1037	0.04299	7.692	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-19	0.3724	0.3276	4	No	26	0.35	0.04587	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-20	2.226	1.475	4	No	10	1.79	0.6332	10	None	x^2	0.01	Param.
Fluoride, total (mg/L)	WGWC-21	2.007	1.713	4	No	10	1.86	0.1647	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-22	0.7625	0.2727	4	No	10	0.542	0.3881	0	None	ln(x)	0.01	Param.
Fluoride, total (mg/L)	WGWC-23	0.08465	0.03878	4	No	10	0.062	0.02634	10	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	WGWC-24	1.022	0.3163	4	No	10	0.669	0.3953	10	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-25	0.2	0.028	4	No	10	0.119	0.08564	50	None	No	0.011	NP (normality)
Fluoride, total (mg/L)	WGWC-27	1.616	0.254	4	No	4	0.935	0.2999	0	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-8	0.3104	0.1884	4	No	26	0.2494	0.1252	3.846	None	No	0.01	Param.
Fluoride, total (mg/L)	WGWC-9	1.409	1.096	4	No	26	1.253	0.3214	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-10	0.001	0.00025	0.015	No	23	0.0006591	0.0003792	52.17	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-11	0.001	0.00058	0.015	No	23	0.0008939	0.0002423	82.61	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-12	0.001	0.00033	0.015	No	23	0.0009709	0.0001397	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-13	0.001	0.00045	0.015	No	23	0.0006913	0.0003124	39.13	None	No	0.01	NP (normality)
Lead (mg/L)	WGWC-14A	0.001	0.00029	0.015	No	23	0.0006904	0.0003707	56.52	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-15	0.001	0.0003	0.015	No	23	0.0009696	0.000146	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-16	0.001	0.00014	0.015	No	23	0.0009248	0.0002492	91.3	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-17	0.001	0.00033	0.015	No	23	0.0009361	0.0002127	91.3	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-19	0.001	0.0003	0.015	No	23	0.0009696	0.000146	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-22	0.001	0.00022	0.015	No	8	0.0005513	0.000376	37.5	None	No	0.004	NP (normality)
Lead (mg/L)	WGWC-23	0.0046	0.001	0.015	No	8	0.00145	0.001273	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	WGWC-24	0.0009291	0.0002684	0.015	No	8	0.0005988	0.0003117	0	None	No	0.01	Param.
Lead (mg/L)	WGWC-8	0.001	0.00029	0.015	No	23	0.000737	0.0003777	65.22	None	No	0.01	NP (NDs)
Lead (mg/L)	WGWC-9	0.001	0.00014	0.015	No	23	0.0009626	0.0001793	95.65	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-10	0.01233	0.006225	0.04	No	25	0.01002	0.007036	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	WGWC-11	0.005	0.0018	0.04	No	25	0.004409	0.001389	84	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-12	0.0075	0.0061	0.04	No	25	0.007272	0.004071	4	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-13	0.005	0.0038	0.04	No	25	0.004328	0.001176	72	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-14A	0.005	0.0033	0.04	No	25	0.004084	0.001349	64	None	No	0.01	NP (NDs)
Lithium (mg/L)	WGWC-15	0.007002	0.005318	0.04	No	25	0.00616	0.001689	8	None	No	0.01	Param.
Lithium (mg/L)	WGWC-16	0.009229	0.005611	0.04	No	25	0.00742	0.003629	8	None	No	0.01	Param.
Lithium (mg/L)	WGWC-17	0.0056	0.0044	0.04	No	25	0.005664	0.004175	4	None	No	0.01	NP (normality)
Lithium (mg/L)	**WGWC-19**	**0.05615**	**0.04937**	**0.04**	**Yes**	**25**	**0.05276**	**0.006802**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**WGWC-20**	**0.15**	**0.11**	**0.04**	**Yes**	**10**	**0.127**	**0.01703**	**0**	**None**	**No**	**0.011**	**NP (normality)**
Lithium (mg/L)	WGWC-21	0.06081	0.03219	0.04	No	10	0.0465	0.01604	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-22	0.01101	0.007295	0.04	No	10	0.00901	0.002598	0	None	x^2	0.01	Param.
Lithium (mg/L)	WGWC-23	0.005	0.0017	0.04	No	10	0.00396	0.001552	60	None	No	0.011	NP (NDs)
Lithium (mg/L)	WGWC-24	0.008121	0.004039	0.04	No	10	0.00608	0.002287	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-25	0.004986	0.003154	0.04	No	10	0.00407	0.001026	10	None	No	0.01	Param.
Lithium (mg/L)	WGWC-27	0.05844	0	0.04	No	4	0.0263	0.01415	0	None	No	0.01	Param.
Lithium (mg/L)	WGWC-8	0.015	0.013	0.04	No	25	0.01596	0.009277	0	None	No	0.01	NP (normality)
Lithium (mg/L)	WGWC-9	0.03666	0.03162	0.04	No	25	0.03414	0.005057	0	None	No	0.01	Param.
Mercury (mg/L)	WGWC-10	0.0002	0.00013	0.002	No	21	0.00018	0.00004321	80.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-11	0.0002	0.00011	0.002	No	21	0.0001901	0.00003159	90.48	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-12	0.0002	0.00018	0.002	No	21	0.0001847	0.00003629	80.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-13	0.0002	0.000083	0.002	No	21	0.0001888	0.00003549	90.48	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-14A	0.0002	0.00013	0.002	No	21	0.0001967	0.00001528	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-15	0.0002	0.000093	0.002	No	21	0.0001779	0.00004691	80.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-16	0.0002	0.00019	0.002	No	21	0.0001895	0.00003248	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-17	0.0002	0.000074	0.002	No	21	0.000194	0.0000275	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-19	0.0002	0.00012	0.002	No	21	0.0001903	0.00003146	90.48	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-20	0.00033	0.0002	0.002	No	8	0.0002162	0.00004596	87.5	None	No	0.004	NP (NDs)

Confidence Interval Summary Table - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/18/2024, 12:38 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	WGWC-21	0.0002	0.0002	0.002	No	8	0.0002	1.8e-12	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	WGWC-22	0.0002	0.00018	0.002	No	8	0.0001975	0.000007071	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	WGWC-23	0.00022	0.0002	0.002	No	8	0.0002025	0.000007071	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	WGWC-24	0.00026	0.0002	0.002	No	8	0.0002075	0.00002121	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	WGWC-25	0.0019	0.0002	0.002	No	8	0.0004125	0.000601	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	WGWC-8	0.0002	0.00013	0.002	No	21	0.0001866	0.00003471	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	WGWC-9	0.0002	0.00013	0.002	No	21	0.0001967	0.00001528	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-10	0.015	0.00093	0.1	No	25	0.01387	0.003899	92	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-11	0.015	0.0017	0.1	No	25	0.01391	0.003767	92	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-12	0.015	0.0046	0.1	No	25	0.01174	0.005969	76	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-13	0.002815	0.001488	0.1	No	25	0.002562	0.002052	12	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-14A	0.015	0.001	0.1	No	25	0.01444	0.0028	96	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	WGWC-15	0.005205	0.002999	0.1	No	25	0.004668	0.003243	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	WGWC-17	0.00526	0.0023	0.1	No	25	0.003792	0.002382	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-19	0.0016	0.0012	0.1	No	25	0.005124	0.006287	28	None	No	0.01	NP (normality)
Molybdenum (mg/L)	WGWC-20	0.015	0.00062	0.1	No	8	0.01143	0.006617	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	WGWC-21	0.04183	0.02742	0.1	No	8	0.03463	0.006802	0	None	No	0.01	Param.
Molybdenum (mg/L)	WGWC-22	0.015	0.00084	0.1	No	8	0.01323	0.005006	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	WGWC-9	0.0053	0.0028	0.1	No	25	0.004785	0.003195	0	None	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-10	0.005	0.00031	0.05	No	25	0.004812	0.000938	96	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-11	0.005	0.00049	0.05	No	25	0.00482	0.000902	96	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-12	0.005	0.0021	0.05	No	25	0.004884	0.00058	96	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-14A	0.005	0.0003	0.05	No	25	0.004812	0.00094	96	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-15	0.005	0.0005	0.05	No	25	0.00482	0.0009	96	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-16	0.008597	0.004031	0.05	No	25	0.006926	0.004803	8	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	WGWC-19	0.005	0.00036	0.05	No	25	0.004814	0.000928	96	None	No	0.01	NP (NDs)
Selenium (mg/L)	WGWC-20	0.002816	0.001322	0.05	No	8	0.00205	0.0007653	12.5	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	WGWC-22	0.007012	0.003588	0.05	No	8	0.0053	0.001615	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-23	0.002744	0.001631	0.05	No	8	0.002188	0.0005249	0	None	No	0.01	Param.
Selenium (mg/L)	WGWC-24	0.005	0.00077	0.05	No	8	0.004471	0.001496	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	WGWC-8	0.0038	0.0032	0.05	No	25	0.003823	0.001184	0	None	No	0.01	NP (normality)
Selenium (mg/L)	WGWC-9	0.002861	0.002282	0.05	No	25	0.002571	0.000581	0	None	No	0.01	Param.
Thallium (mg/L)	WGWC-10	0.001	0.000085	0.002	No	25	0.0009634	0.000183	96	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-11	0.001	0.00016	0.002	No	25	0.0009664	0.000168	96	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-14A	0.001	0.00017	0.002	No	25	0.0006308	0.0004259	56	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-16	0.001	0.00017	0.002	No	25	0.0006024	0.0004236	52	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-19	0.001	0.00018	0.002	No	25	0.0009672	0.000164	96	None	No	0.01	NP (NDs)
Thallium (mg/L)	WGWC-22	0.001	0.00047	0.002	No	8	0.0009338	0.0001874	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	WGWC-24	0.0006516	0.0003034	0.002	No	8	0.0004775	0.0001643	0	None	No	0.01	Param.

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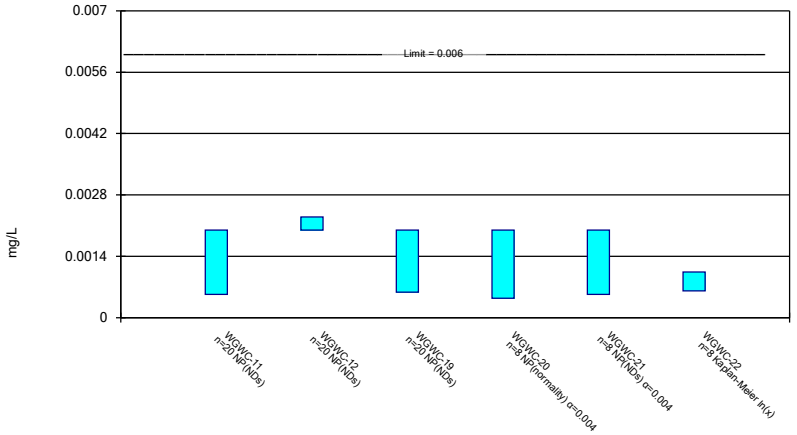
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 4/18/2024 12:34 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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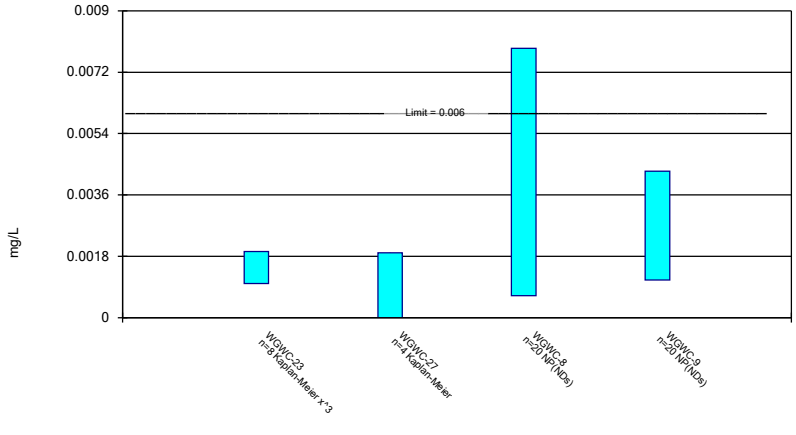
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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Parametric and Non-Parametric (NP) Confidence Interval

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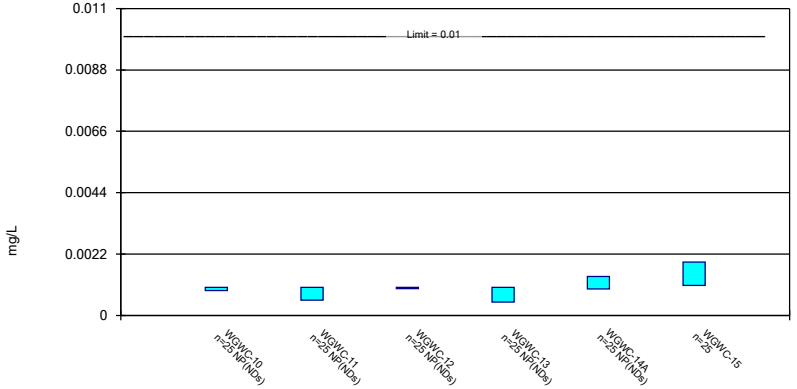

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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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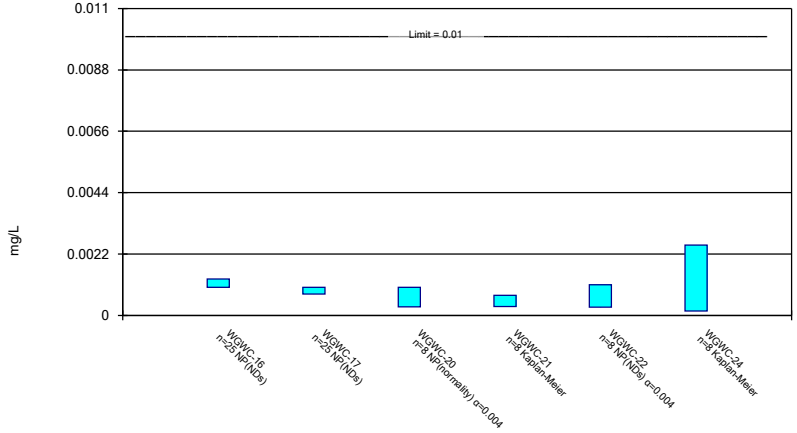
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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Parametric and Non-Parametric (NP) Confidence Interval

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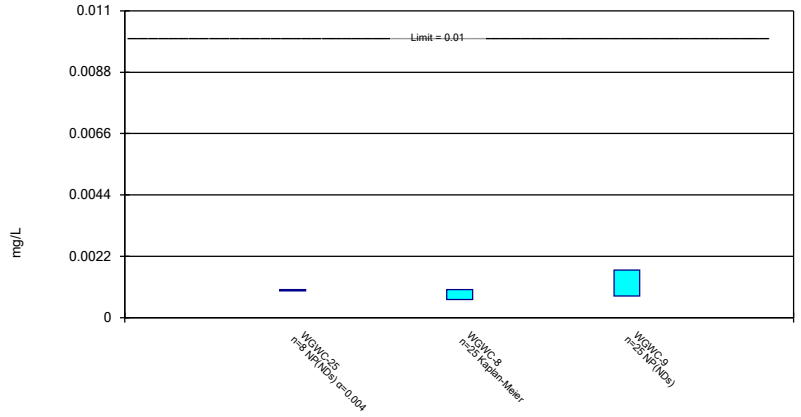

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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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Parametric and Non-Parametric (NP) Confidence Interval

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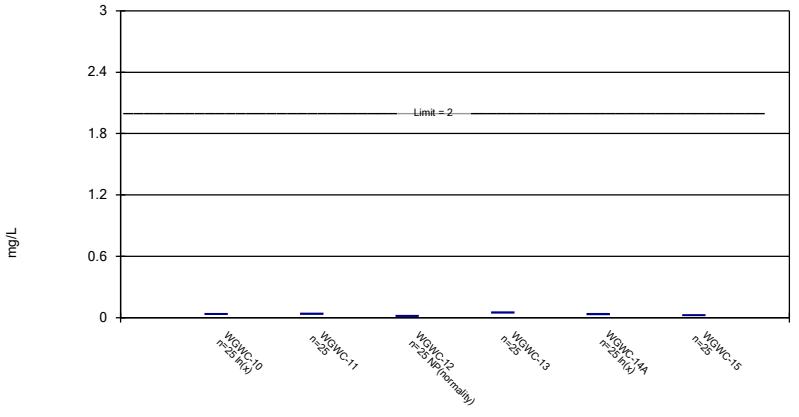

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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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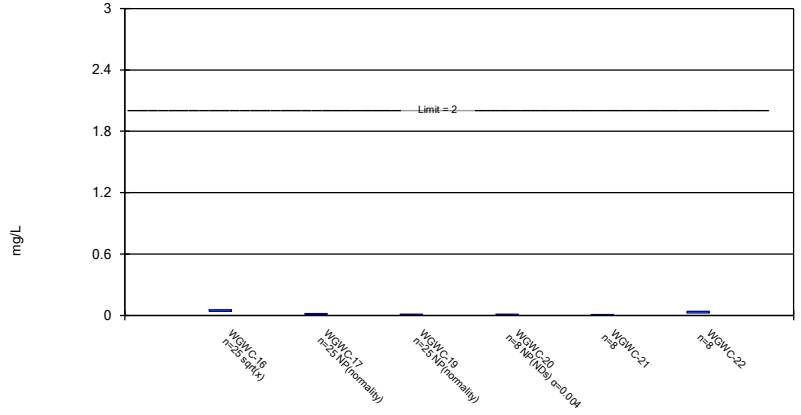
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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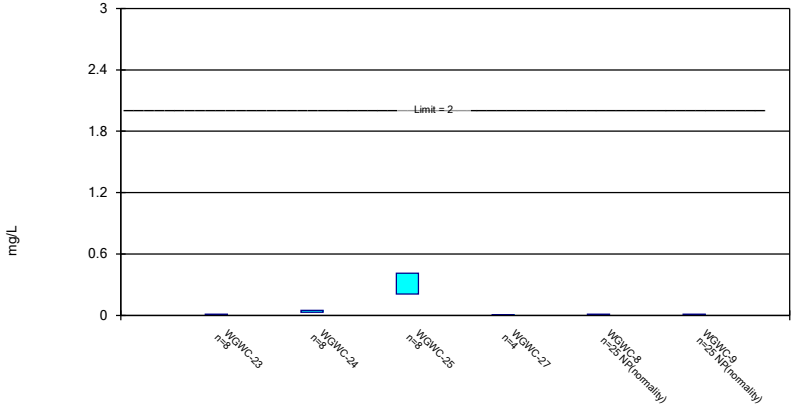
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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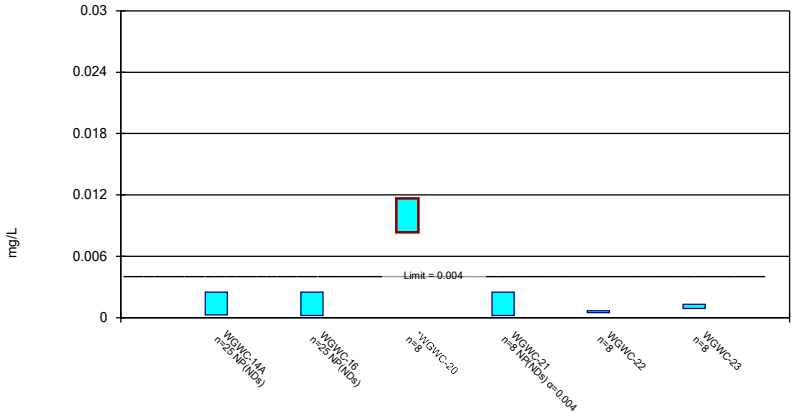
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/18/2024 12:34 PM View: Confidence Intervals
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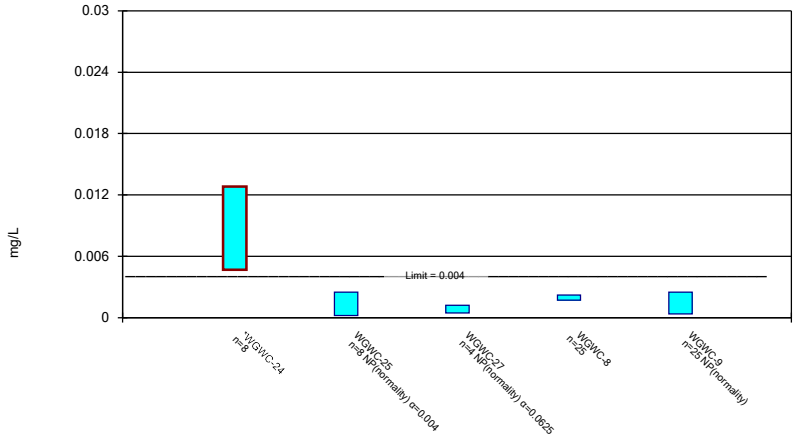
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/18/2024 12:34 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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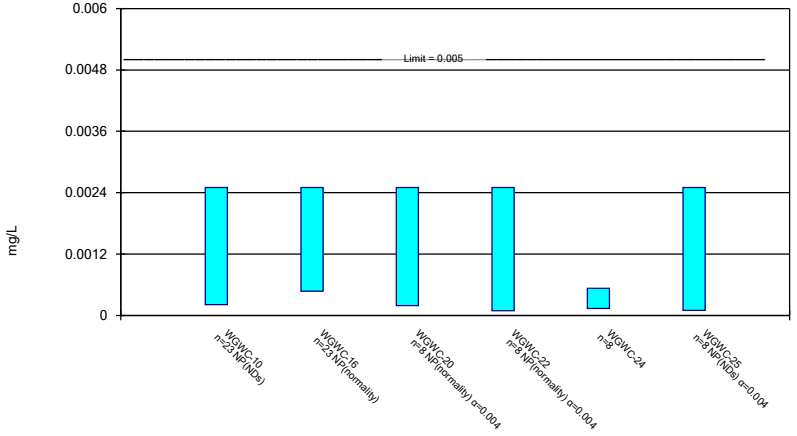
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

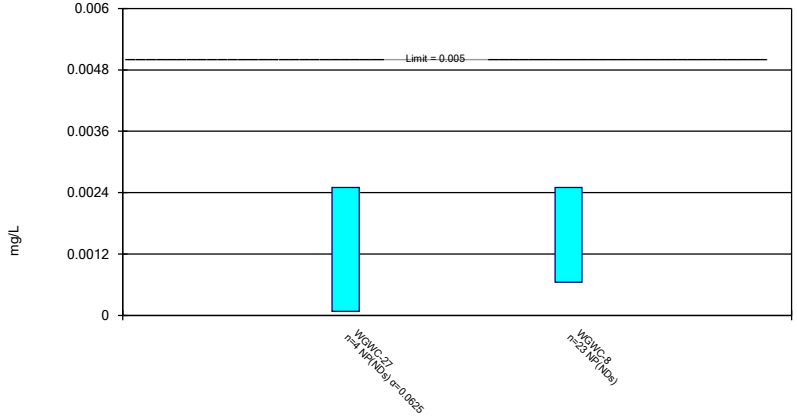


Constituent: Cadmium Analysis Run 4/18/2024 12:34 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Cadmium Analysis Run 4/18/2024 12:34 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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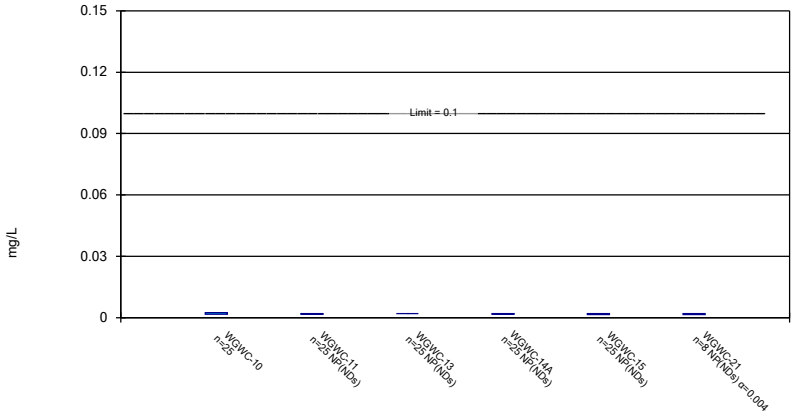
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

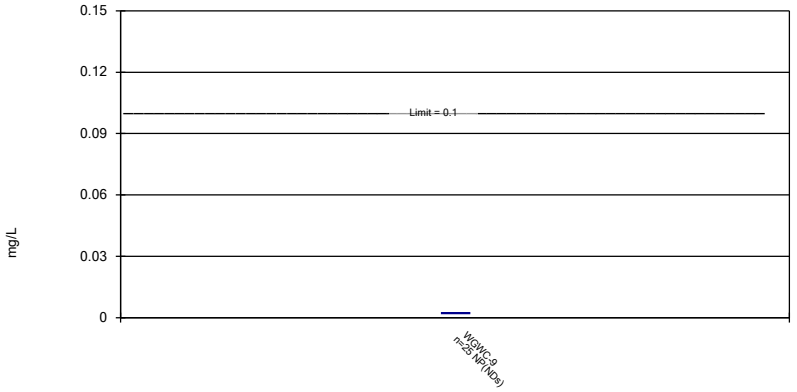


Constituent: Chromium Analysis Run 4/18/2024 12:34 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

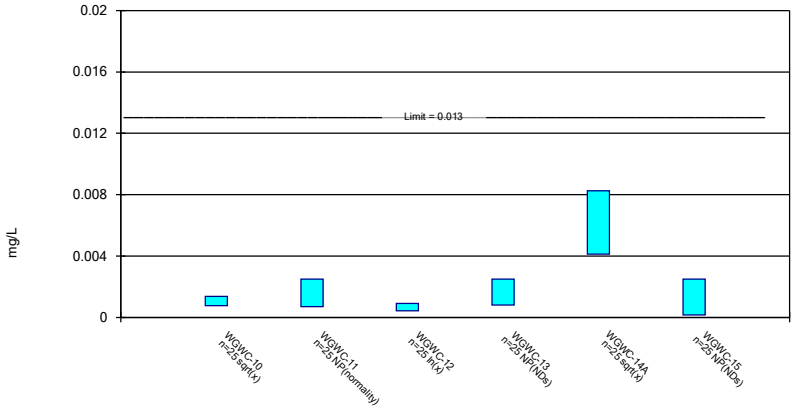


Constituent: Chromium Analysis Run 4/18/2024 12:34 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

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 4/18/2024 12:34 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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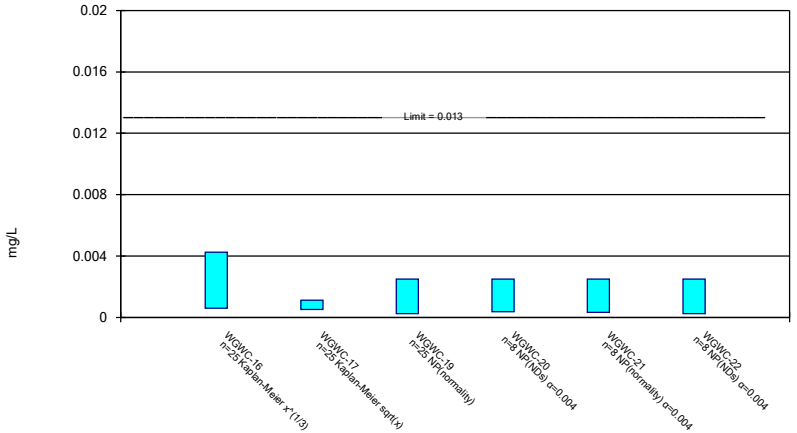
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

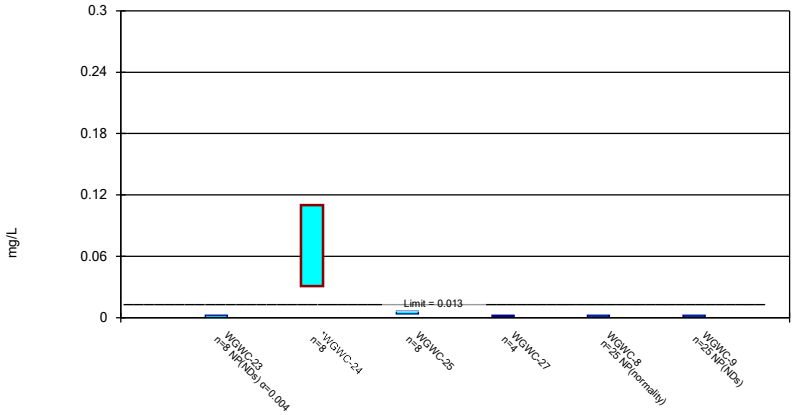


Constituent: Cobalt Analysis Run 4/18/2024 12:34 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

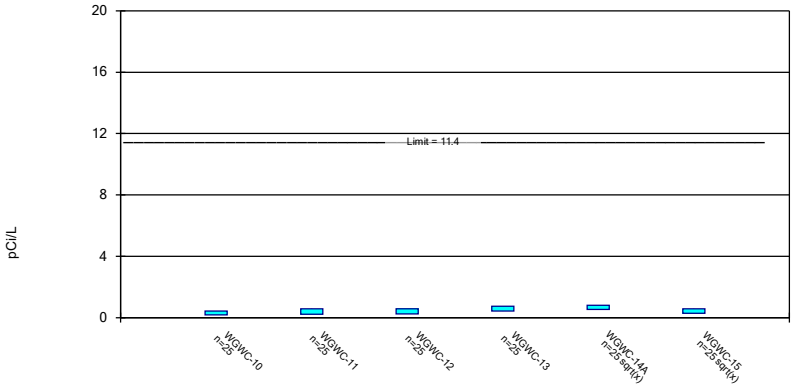


Constituent: Cobalt Analysis Run 4/18/2024 12:34 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

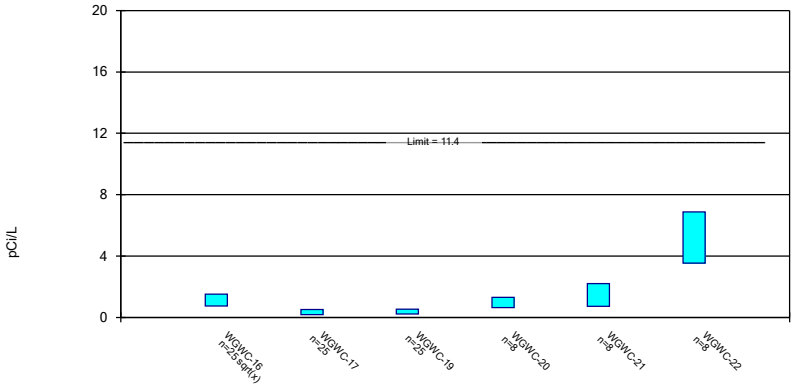


Constituent: Combined Radium 226 + 228 Analysis Run 4/18/2024 12:34 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

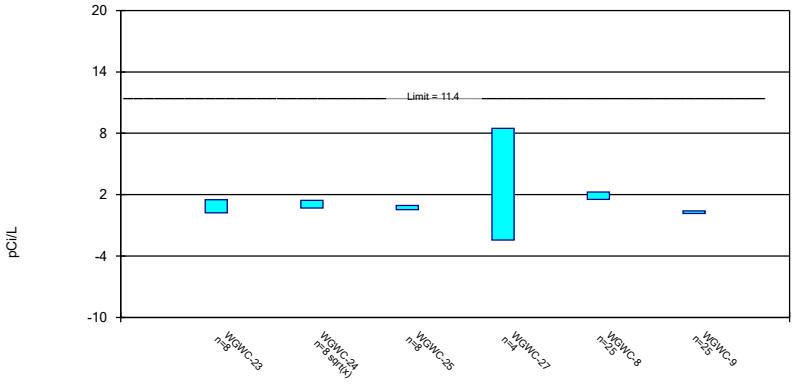


Constituent: Combined Radium 226 + 228 Analysis Run 4/18/2024 12:34 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

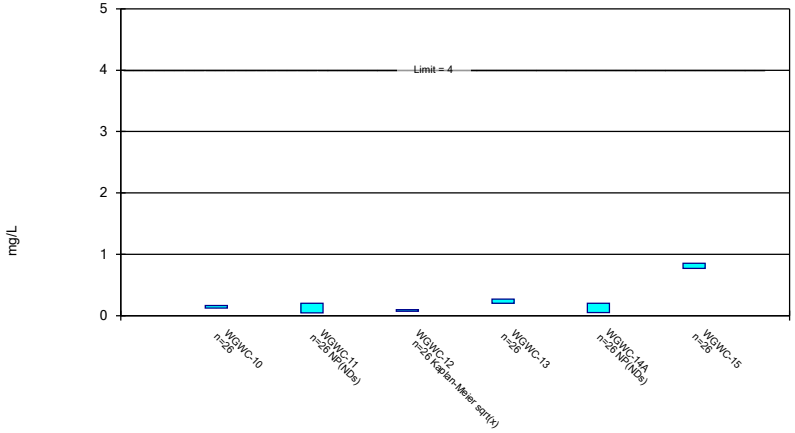


Constituent: Combined Radium 226 + 228 Analysis Run 4/18/2024 12:34 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

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.

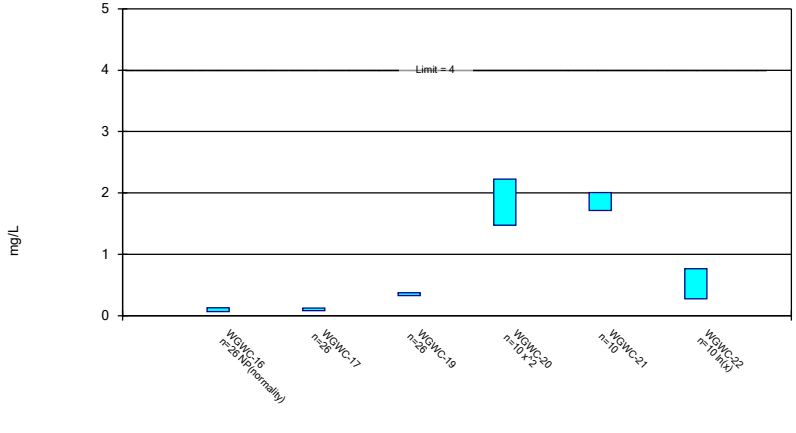


Constituent: Fluoride, total Analysis Run 4/18/2024 12:34 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

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.

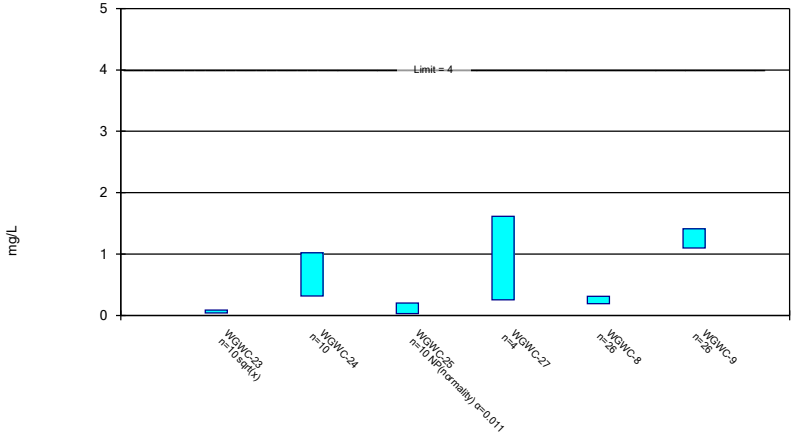


Constituent: Fluoride, total Analysis Run 4/18/2024 12:34 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

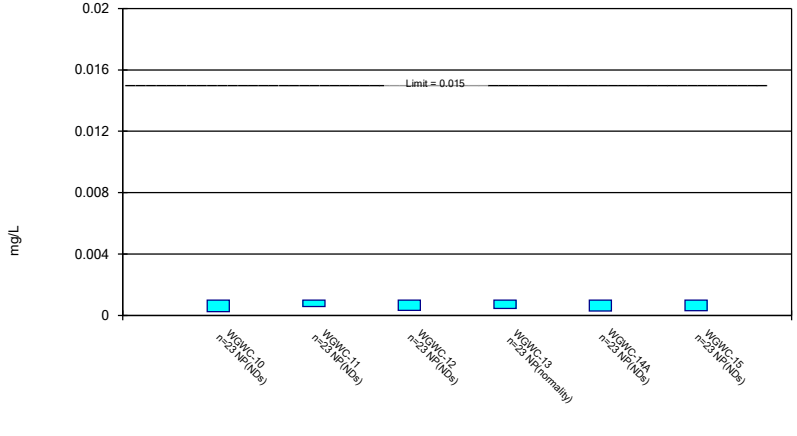


Constituent: Fluoride, total Analysis Run 4/18/2024 12:34 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

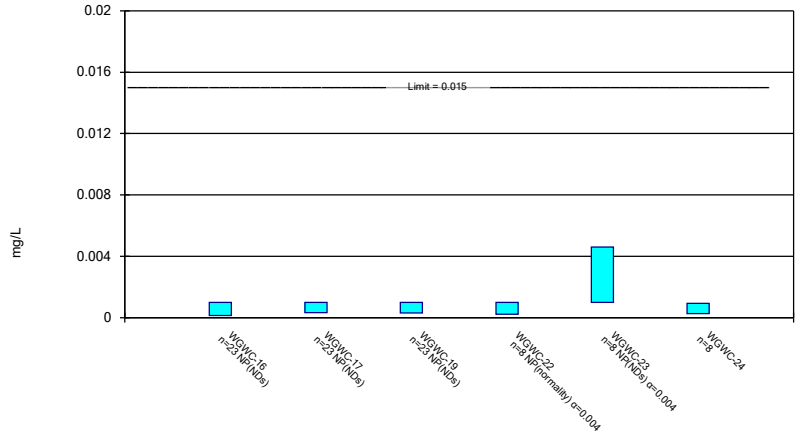


Constituent: Lead Analysis Run 4/18/2024 12:34 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

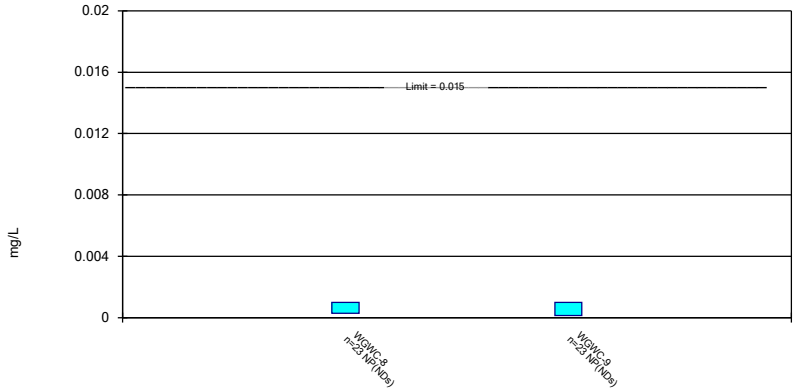


Constituent: Lead Analysis Run 4/18/2024 12:34 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

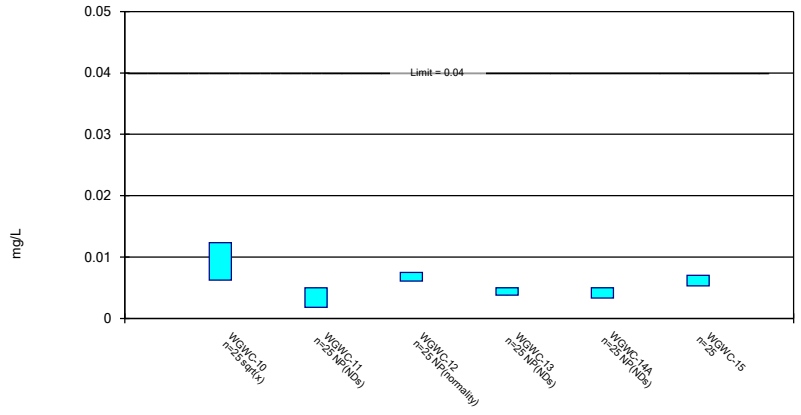


Constituent: Lead Analysis Run 4/18/2024 12:34 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

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.

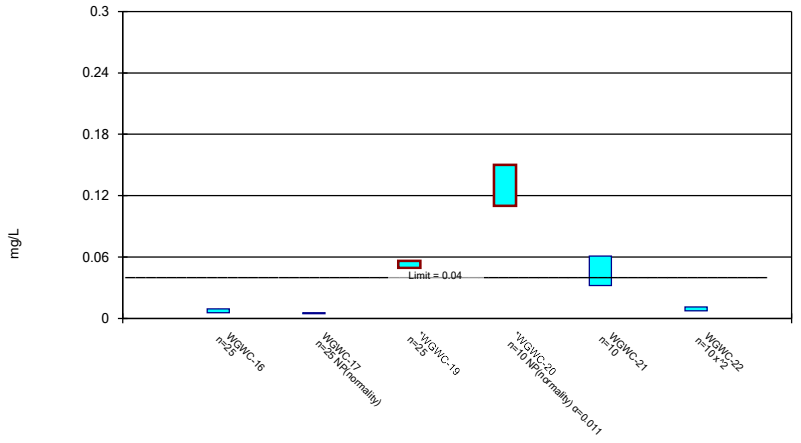


Constituent: Lithium Analysis Run 4/18/2024 12:35 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

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.

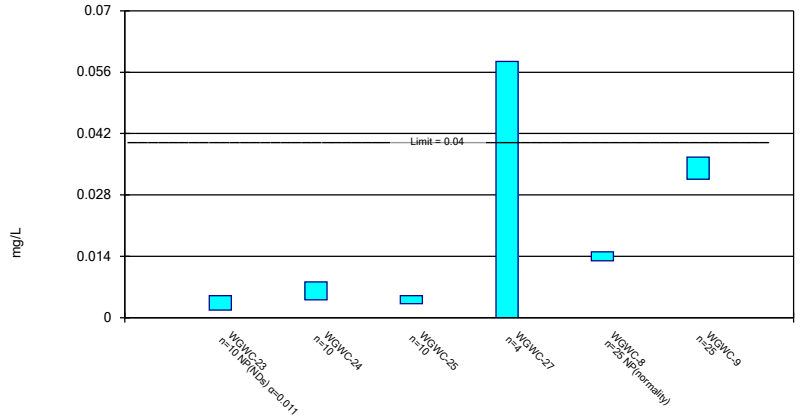


Constituent: Lithium Analysis Run 4/18/2024 12:35 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

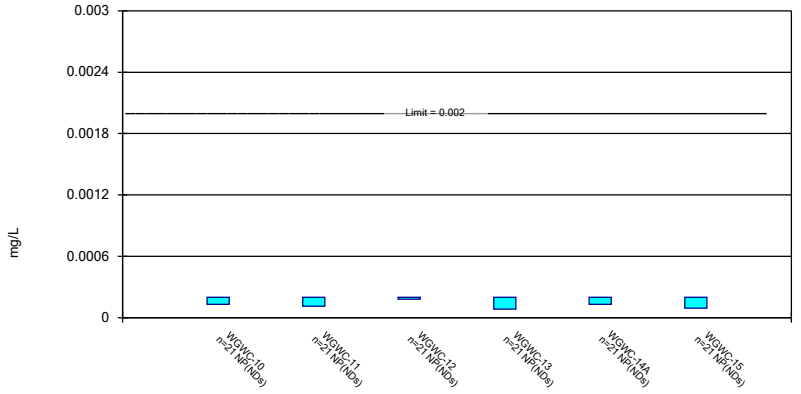


Constituent: Lithium Analysis Run 4/18/2024 12:35 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

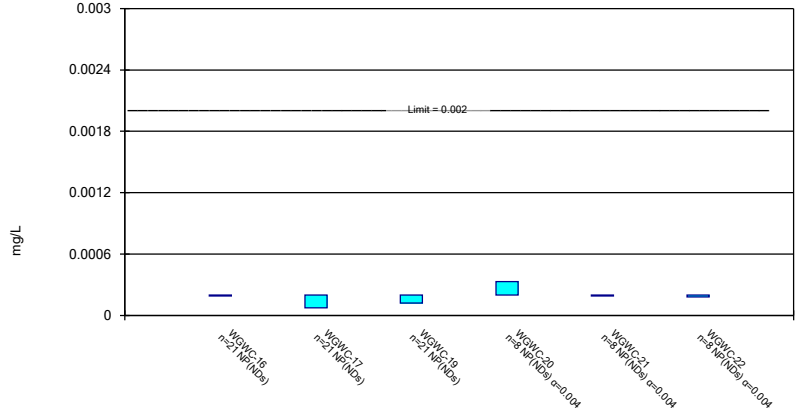


Constituent: Mercury Analysis Run 4/18/2024 12:35 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

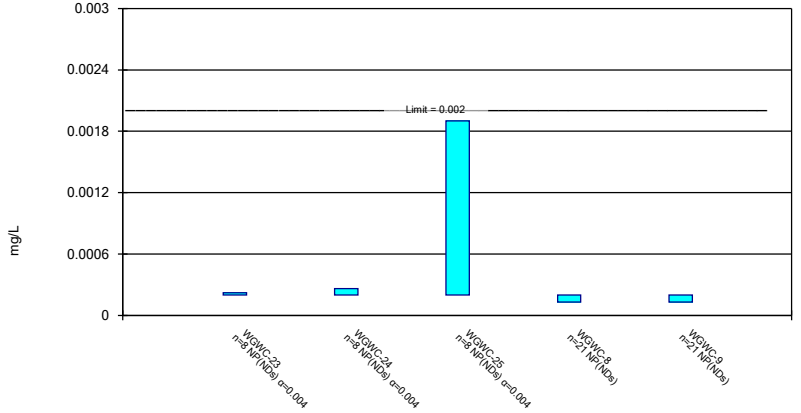


Constituent: Mercury Analysis Run 4/18/2024 12:35 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

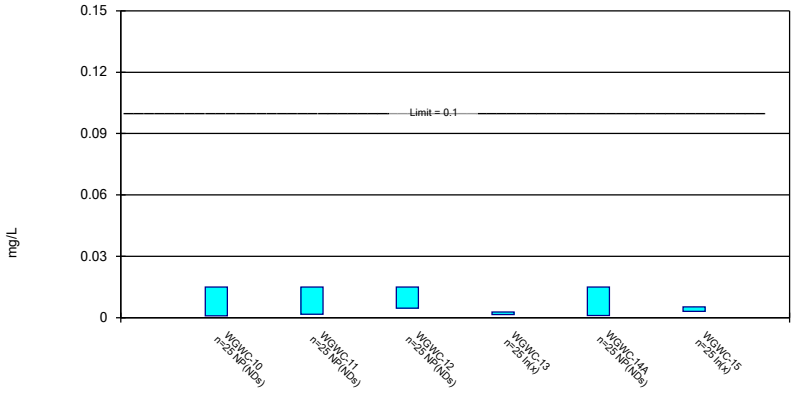


Constituent: Mercury Analysis Run 4/18/2024 12:35 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

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.

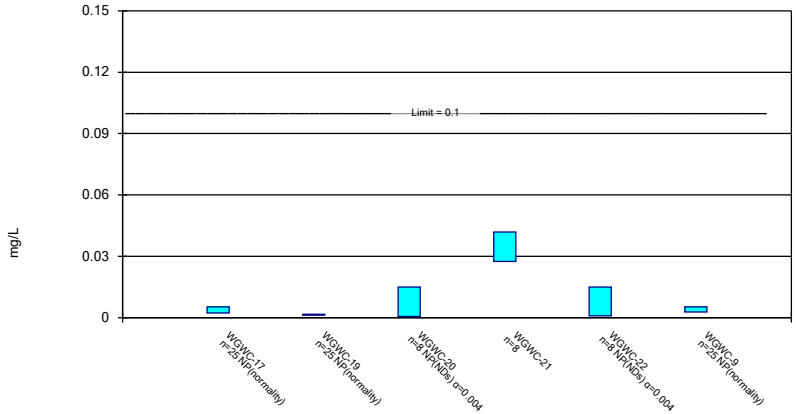


Constituent: Molybdenum Analysis Run 4/18/2024 12:35 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

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.

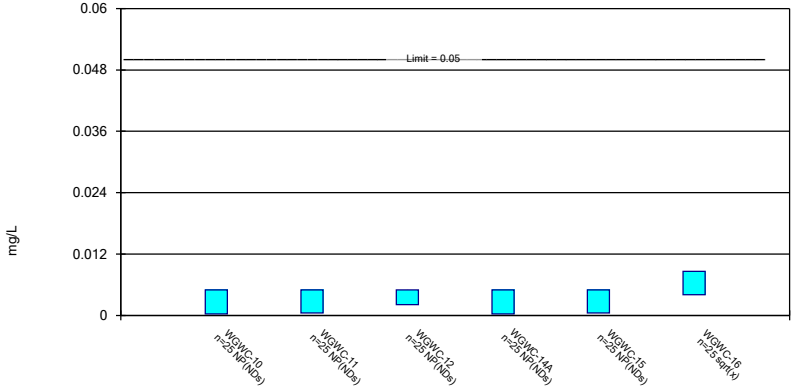


Constituent: Molybdenum Analysis Run 4/18/2024 12:35 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

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 4/18/2024 12:35 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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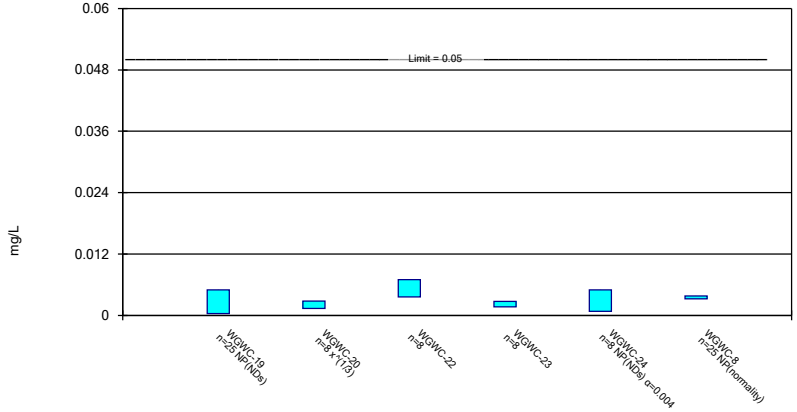
Parametric and Non-Parametric (NP) Confidence Interval

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 4/18/2024 12:35 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

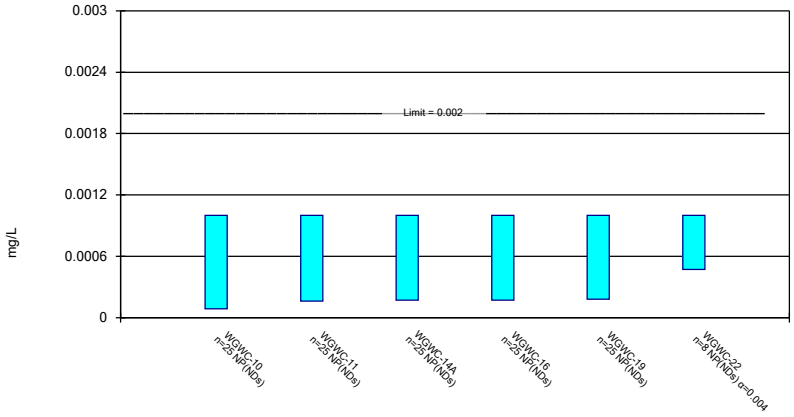


Constituent: Selenium Analysis Run 4/18/2024 12:35 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

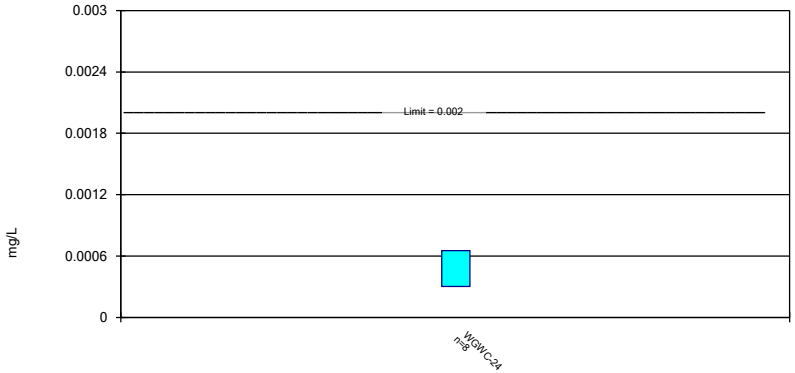


Constituent: Thallium Analysis Run 4/18/2024 12:35 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 4/18/2024 12:35 PM View: Confidence Intervals
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-11	WGWC-12	WGWC-19	WGWC-20	WGWC-21	WGWC-22
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	<0.002	<0.002			
1/27/2017	<0.002	<0.002				
2/6/2017			<0.002			
3/15/2017	<0.002	<0.002	<0.002			
4/11/2017			<0.002			
4/26/2017	<0.002	<0.002	<0.002			
6/7/2017			<0.002			
7/11/2017			<0.002			
8/10/2017	<0.002	0.0023 (J)	<0.002			
3/29/2018	<0.002	<0.002	<0.002			
2/27/2019	<0.002	<0.002				
2/28/2019			<0.002			
2/5/2020	<0.002	<0.002				
2/7/2020			<0.002			
3/18/2020	<0.002	<0.002				
5/4/2020			<0.002			
2/3/2021	<0.002	<0.002	<0.002			
3/11/2021			<0.002			
3/12/2021	<0.002	<0.002				
8/25/2021	<0.002	<0.002				
8/26/2021			<0.002	<0.002	0.00076 (J)	<0.002
1/11/2022					<0.002	0.00078 (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)
6/6/2022					<0.002	
6/7/2022				<0.002		0.00054 (J)
8/16/2022	0.00053 (J)				0.00055 (J)	
8/17/2022			0.00058 (J)			
8/18/2022		<0.002		<0.002		
8/19/2022						<0.002
2/15/2023						0.0012 (J)
2/16/2023	<0.002	<0.002	<0.002	<0.002	<0.002	
8/15/2023				0.00069 (J)		
8/21/2023	<0.002	<0.002	<0.002		<0.002	<0.002
2/13/2024				0.00044 (J)		
2/14/2024		<0.002				0.00076 (J)
2/15/2024			<0.002		<0.002	
2/16/2024	<0.002					
Mean	0.001927	0.002015	0.001929	0.001361	0.00148	0.001263
Std. Dev.	0.0003287	6.708E-05	0.0003175	0.0007062	0.0007209	0.0006368
Upper Lim.	0.002	0.0023	0.002	0.002	0.002	0.001039
Lower Lim.	0.00053	0.002	0.00058	0.00044	0.00053	0.0006064

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-27	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
1/11/2022	0.0012 (J)			
3/3/2022			<0.002	0.008
3/4/2022	0.0018 (J)			
6/6/2022	0.0013 (J)			
8/16/2022			0.011	
8/17/2022	<0.002			0.0043
10/19/2022		<0.002		
2/15/2023	0.0022			0.00048 (J)
2/16/2023		0.00047 (J)	0.00064 (J)	
8/15/2023		0.0015 (J)		
8/18/2023			0.0079	
8/21/2023	<0.002			0.0011 (J)
2/13/2024			<0.002	
2/14/2024				0.0063
2/15/2024	<0.002	0.00056 (J)		
Mean	0.001813	0.001133	0.002677	0.002305
Std. Dev.	0.0003643	0.0007426	0.00239	0.001877
Upper Lim.	0.001944	0.001901	0.0079	0.0043
Lower Lim.	0.001003	0	0.00064	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001					0.00345
5/19/2016		<0.001	<0.001	<0.001		
7/19/2016						0.0031
7/20/2016	<0.001	<0.001	<0.001	<0.001		
9/14/2016	<0.001	<0.001	<0.001	<0.001		0.0024
11/10/2016				<0.001		0.0023
11/11/2016	<0.001	<0.001	<0.001			
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						0.0016
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						0.0019
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)	
8/9/2017				<0.001		0.0017
8/10/2017	<0.001	<0.001	0.00048 (J)			
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)	<0.001	0.00052 (J)	0.00093 (J)	<0.001	0.002
10/3/2018						0.0024
10/4/2018	0.00089 (J)	0.00054 (J)	<0.001	0.0015	0.0017	
2/27/2019	<0.001	<0.001	<0.001	0.00036 (J)	<0.001	0.0015
4/3/2019		<0.001	<0.001	0.00053 (J)	<0.001	
4/4/2019	<0.001					0.0019
9/18/2019				0.00039 (J)	<0.001	0.0016
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
3/18/2020	<0.001	<0.001	<0.001			0.00088 (J)
3/19/2020				0.00039 (J)	<0.001	
9/23/2020	<0.001		<0.001			0.00061 (J)
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)
3/11/2021	0.00031 (J)			0.00035 (J)	<0.001	
3/12/2021		<0.001	<0.001			0.00084 (J)
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	0.00057 (J)
3/4/2022			0.00037 (J)			
8/16/2022		<0.001				
8/17/2022						0.00052 (J)
8/18/2022			<0.001	0.00034 (J)		
8/19/2022	<0.001				<0.001	
2/15/2023						<0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/16/2023	<0.001	<0.001	<0.001	<0.001	<0.001	
8/21/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/14/2024			0.001			
2/15/2024	<0.001			<0.001	<0.001	<0.001
2/16/2024		<0.001				
Mean	0.0008972	0.0009408	0.0009348	0.0007992	0.001194	0.001494
Std. Dev.	0.000231	0.0001639	0.0001816	0.0003135	0.0005296	0.00084
Upper Lim.	0.001	0.001	0.001	0.001	0.0014	0.001913
Lower Lim.	0.00089	0.00054	0.001	0.00048	0.00095	0.001076

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-20	WGWC-21	WGWC-22	WGWC-24
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)				
1/20/2017		<0.001				
1/24/2017	0.0015					
3/14/2017		<0.001				
3/15/2017	0.0014					
4/25/2017	0.0014	0.00095 (J)				
8/9/2017	0.0013	<0.001				
3/29/2018	0.0014					
3/30/2018		<0.001				
6/14/2018	<0.001	0.00076 (J)				
10/4/2018	0.0013	0.00088 (J)				
2/26/2019		0.0005 (J)				
2/27/2019	0.00046 (J)					
4/4/2019	<0.001	<0.001				
9/18/2019	<0.001	<0.001				
2/7/2020	<0.001	0.00075 (J)				
3/18/2020	<0.001	0.00054 (J)				
9/23/2020	<0.001	0.00067 (J)				
2/4/2021	<0.001	0.00035 (J)				
3/11/2021	<0.001	<0.001				
8/25/2021	<0.001	<0.001				
8/26/2021			0.00031 (J)	0.00057 (J)	<0.001	0.0033
1/11/2022				0.00036 (J)	<0.001	0.0017
1/12/2022			0.00052 (J)			
3/3/2022	<0.001			0.00053 (J)		0.0029
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)	
8/16/2022		<0.001		0.00028 (J)		
8/17/2022	<0.001					
8/18/2022			<0.001			0.00028 (J)
8/19/2022					<0.001	
2/15/2023	<0.001				<0.001	<0.001
2/16/2023		<0.001	<0.001	<0.001		
8/15/2023			<0.001			
8/18/2023	<0.001					
8/21/2023		<0.001		<0.001	<0.001	<0.001
2/13/2024			0.001			
2/14/2024					0.0011	0.0012
2/15/2024	<0.001	<0.001		<0.001		
Mean	0.001126	0.000872	0.0007425	0.0006963	0.0008563	0.00149
Std. Dev.	0.0003015	0.0001968	0.0003101	0.0002987	0.0003025	0.001085
Upper Lim.	0.0013	0.001	0.001	0.0007161	0.0011	0.002525
Lower Lim.	0.001	0.00076	0.00031	0.0003119	0.00029	0.0001603

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	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	<0.001	0.0013	<0.001
1/11/2022	<0.001		
3/3/2022		0.0014	<0.001
3/4/2022	<0.001		
6/7/2022	<0.001		
8/16/2022		0.00097 (J)	
8/17/2022	<0.001		<0.001
2/15/2023	<0.001		<0.001
2/16/2023		<0.001	
8/18/2023	<0.001	0.00087 (J)	
8/21/2023			<0.001
2/13/2024		0.0017	
2/14/2024			<0.001
2/15/2024	0.00096 (J)		
Mean	0.000995	0.001008	0.000998
Std. Dev.	1.414E-05	0.0002997	0.0001848
Upper Lim.	0.001	0.001009	0.0017
Lower Lim.	0.00096	0.0006478	0.00078

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.0391					0.0206
5/19/2016		0.031	0.0214	0.055		
7/19/2016						0.019
7/20/2016	0.028	0.029	0.019	0.039		
9/14/2016	0.035	0.031	0.02	0.04		0.02
11/10/2016				0.04		0.02
11/11/2016	0.042	0.034	0.022			
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						0.018
3/15/2017	0.04	0.032	0.024	0.058		
3/17/2017					0.046	
4/11/2017					0.055	
4/25/2017						0.018
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	
8/9/2017				0.055		0.02
8/10/2017	0.038	0.03	0.017			
3/29/2018		0.028	0.017	0.061	0.028	
3/30/2018	0.042					0.021
6/14/2018	0.038	0.03	0.015	0.055	0.023	0.022
10/3/2018						0.024
10/4/2018	0.04	0.035	0.017	0.046	0.036	
2/27/2019	0.04	0.04	0.016	0.054	0.028	0.023
4/3/2019		0.035	0.015	0.056	0.026	
4/4/2019	0.04					0.022
9/18/2019				0.062	0.025	0.026
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
3/18/2020	0.035	0.038	0.016			0.021
3/19/2020				0.072	0.031	
9/23/2020	0.035		0.016			0.027
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
3/11/2021	0.033			0.049	0.032	
3/12/2021		0.045	0.017			0.028
8/25/2021		0.04	0.016	0.046	0.03	
8/26/2021	0.032					0.029
3/3/2022	0.033	0.04		0.045	0.029	0.029
3/4/2022			0.016			
8/16/2022		0.038				
8/17/2022						0.027
8/18/2022			0.014	0.041		
8/19/2022	0.03				0.026	
2/15/2023						0.029

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/16/2023	0.032	0.041	0.014	0.037	0.028	
8/21/2023	0.036	0.044	0.017	0.042	0.026	0.03
2/14/2024			0.017			
2/15/2024	0.034			0.037	0.027	0.031
2/16/2024		0.042				
Mean	0.03744	0.0374	0.01682	0.04892	0.03664	0.02366
Std. Dev.	0.0062	0.007377	0.003805	0.009151	0.01334	0.004319
Upper Lim.	0.03988	0.04108	0.019	0.05348	0.04072	0.02582
Lower Lim.	0.03437	0.03372	0.015	0.04436	0.02967	0.02151

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
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
1/11/2022					0.0076 (J)	0.04
1/12/2022				<0.01		
3/3/2022	0.041		<0.01		0.0068 (J)	
3/4/2022		0.011		<0.01		0.038
6/6/2022					0.0079 (J)	
6/7/2022				<0.01		0.025
8/16/2022		0.011			0.0039 (J)	
8/17/2022	0.032		0.0012 (J)			
8/18/2022				0.00091 (J)		
8/19/2022						0.023
2/15/2023	0.044					0.033
2/16/2023		0.01	0.00096 (J)	<0.01	0.0053 (J)	
8/15/2023				<0.01		
8/18/2023	0.039					
8/21/2023		0.012	0.0014 (J)		0.0044 (J)	0.021

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
2/13/2024				<0.01		
2/14/2024						0.041
2/15/2024	0.045	0.011	0.0012 (J)		0.0064 (J)	
Mean	0.04722	0.01416	0.004321	0.008864	0.006363	0.0315
Std. Dev.	0.01494	0.003947	0.004112	0.003214	0.001696	0.007856
Upper Lim.	0.05366	0.018	0.01	0.01	0.00816	0.03983
Lower Lim.	0.03914	0.011	0.0012	0.00091	0.004565	0.02317

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	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	0.0078 (J)	0.042	0.41		<0.01	<0.01
1/11/2022	0.0072 (J)	0.029	0.38			
3/3/2022		0.028			<0.01	<0.01
3/4/2022	0.0081 (J)		0.38			
6/6/2022	0.0097 (J)	0.032				
6/7/2022			0.34			
8/16/2022					0.0014 (J)	
8/17/2022	0.0089 (J)		0.31			<0.01
8/18/2022		0.041				
10/19/2022				0.0036 (J)		
2/15/2023	0.0055 (J)	0.036	0.33			<0.01
2/16/2023				0.0049 (J)	0.00093 (J)	
8/15/2023				0.0047 (J)		
8/18/2023			0.19		0.0019 (J)	
8/21/2023	0.01	0.046				<0.01
2/13/2024					0.0014 (J)	
2/14/2024		0.052				<0.01
2/15/2024	0.005 (J)		0.14	0.004 (J)		
Mean	0.007775	0.03825	0.31	0.0043	0.004676	0.005489
Std. Dev.	0.001822	0.008498	0.09592	0.0006055	0.004132	0.004447
Upper Lim.	0.009706	0.04726	0.4117	0.005675	0.01	0.01
Lower Lim.	0.005844	0.02924	0.2083	0.002925	0.0013	0.0014

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-16	WGWC-20	WGWC-21	WGWC-22	WGWC-23
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	<0.0025	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			0.01		0.00066 (J)	0.00097 (J)
6/6/2022				<0.0025		0.0011 (J)
6/7/2022			0.0089		0.00055 (J)	
8/16/2022				0.00022 (J)		
8/17/2022		<0.0025				0.00078 (J)
8/18/2022			0.0081			
8/19/2022	<0.0025				0.00063 (J)	
2/15/2023		<0.0025			0.00067 (J)	0.0012 (J)
2/16/2023	0.00031 (J)		0.011	<0.0025		
8/15/2023			0.0099			
8/18/2023		<0.0025				
8/21/2023	0.00023 (J)			0.00021 (J)	0.0006 (J)	0.0013 (J)
2/13/2024			0.012			
2/14/2024					0.00044 (J)	
2/15/2024	0.00026 (J)	<0.0025		0.00021 (J)		0.0013 (J)
Mean	0.001691	0.002409	0.01	0.001642	0.0005813	0.001093

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-14A	WGWC-16	WGWC-20	WGWC-21	WGWC-22	WGWC-23
Std. Dev.	0.001101	0.000456	0.001578	0.001183	7.605E-05	0.0001938
Upper Lim.	0.0025	0.0025	0.01167	0.0025	0.0006619	0.001298
Lower Lim.	0.00026	0.00022	0.008327	0.00021	0.0005006	0.0008871

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24	WGWC-25	WGWC-27	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)			
8/16/2022				0.0018 (J)	
8/17/2022		0.00022 (J)			0.00033 (J)
8/18/2022	0.0044				
10/19/2022			0.00054 (J)		
2/15/2023	0.0099	0.00026 (J)			0.00044 (J)
2/16/2023			0.00046 (J)	0.0025	
8/15/2023			0.00052 (J)		
8/18/2023		<0.0025		0.0024 (J)	
8/21/2023	0.0049				0.0004 (J)
2/13/2024				0.0027	
2/14/2024	0.0065				0.00037 (J)
2/15/2024		<0.0025	0.0012 (J)		
Mean	0.008738	0.001095	0.00068	0.001958	0.001146
Std. Dev.	0.003842	0.001164	0.0003483	0.00051	0.001038
Upper Lim.	0.01281	0.0025	0.0012	0.002212	0.0025
Lower Lim.	0.004665	0.0002	0.00046	0.001704	0.00036

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-16	WGWC-20	WGWC-22	WGWC-24	WGWC-25
5/18/2016	<0.0025	0.000362 (J)				
7/19/2016		<0.0025				
7/20/2016	<0.0025					
9/14/2016	<0.0025	0.00037 (J)				
11/10/2016		<0.0025				
11/11/2016	<0.0025					
1/24/2017		0.00055 (J)				
2/6/2017	<0.0025					
3/15/2017	<0.0025	0.00067 (J)				
4/25/2017		0.00058 (J)				
4/26/2017	<0.0025					
8/9/2017		0.00054 (J)				
8/10/2017	<0.0025					
3/29/2018		0.00082 (J)				
3/30/2018	<0.0025					
6/14/2018	<0.0025	0.0007 (J)				
10/4/2018	<0.0025	0.00065 (J)				
2/27/2019	<0.0025	0.00055 (J)				
4/4/2019	<0.0025	0.00047 (J)				
9/18/2019		0.00017 (J)				
9/19/2019	0.00021 (J)					
2/5/2020	<0.0025					
2/7/2020		<0.0025				
3/18/2020	<0.0025	0.00022 (J)				
9/23/2020	<0.0025	<0.0025				
2/4/2021	<0.0025	<0.0025				
8/26/2021			<0.0025	<0.0025	0.00061 (J)	<0.0025
1/11/2022				<0.0025	0.0004 (J)	<0.0025
1/12/2022			0.00026 (J)			
3/3/2022	<0.0025	<0.0025			0.0003 (J)	
3/4/2022			<0.0025	0.00025 (J)		<0.0025
6/6/2022					0.0003 (J)	
6/7/2022			<0.0025	<0.0025		<0.0025
8/17/2022		<0.0025				0.00012 (J)
8/18/2022			<0.0025		0.00015 (J)	
8/19/2022	<0.0025			9E-05 (J)		
2/15/2023		8.5E-05 (J)		0.00028 (J)	0.00057 (J)	0.0001 (J)
2/16/2023	<0.0025		0.00057 (J)			
8/15/2023			0.00019 (J)			
8/18/2023		<0.0025				<0.0025
8/21/2023	<0.0025			<0.0025	9.5E-05 (J)	
2/13/2024			0.00042 (J)			
2/14/2024				0.00013 (J)	0.00023 (J)	
2/15/2024	<0.0025	<0.0025				<0.0025
Mean	0.0024	0.001271	0.00143	0.001344	0.0003319	0.001902
Std. Dev.	0.0004775	0.001021	0.001149	0.001238	0.0001853	0.001106
Upper Lim.	0.0025	0.0025	0.0025	0.0025	0.0005283	0.0025
Lower Lim.	0.00021	0.00047	0.00019	9E-05	0.0001355	0.0001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-27	WGWC-8
5/19/2016		<0.0025
7/20/2016		<0.0025
9/15/2016		<0.0025
11/14/2016		<0.0025
2/6/2017		<0.0025
3/15/2017		<0.0025
4/26/2017		<0.0025
8/10/2017		<0.0025
3/29/2018		<0.0025
6/14/2018		<0.0025
10/4/2018		<0.0025
2/27/2019		<0.0025
4/3/2019		<0.0025
9/19/2019		<0.0025
2/7/2020		<0.0025
3/19/2020		<0.0025
9/22/2020		<0.0025
2/3/2021		<0.0025
3/3/2022		<0.0025
8/16/2022		<0.0025
10/19/2022	<0.0025	
2/16/2023	8E-05 (J)	0.00065 (J)
8/15/2023	<0.0025	
8/18/2023		0.00013 (J)
2/13/2024		0.00041 (J)
2/15/2024	<0.0025	
Mean	0.001895	0.002226
Std. Dev.	0.00121	0.0007285
Upper Lim.	0.0025	0.0025
Lower Lim.	8E-05	0.00065

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-13	WGWC-14A	WGWC-15	WGWC-21
5/18/2016	<0.002				<0.002	
5/19/2016		<0.002	<0.002			
7/19/2016					<0.002	
7/20/2016	0.0012 (J)	<0.002	<0.002			
9/14/2016	<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		
2/23/2017				<0.002		
3/14/2017					<0.002	
3/15/2017	0.0015 (J)	<0.002	<0.002			
3/17/2017				<0.002		
4/11/2017				<0.002		
4/25/2017					<0.002	
4/26/2017	0.0013 (J)	0.0011 (J)	<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				
3/29/2018		0.0012 (J)	<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	
10/3/2018					<0.002	
10/4/2018	0.0031	<0.002	<0.002	<0.002		
2/27/2019	0.0031	0.0021 (J)	0.0018 (J)	<0.002	0.0015 (J)	
4/3/2019		<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				
2/5/2020	0.0022	<0.002	<0.002	0.0017 (J)		
2/7/2020					<0.002	
3/18/2020	<0.002	<0.002			<0.002	
3/19/2020			<0.002	<0.002		
9/23/2020	0.0018 (J)				<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	
3/11/2021	0.0023		0.0019 (J)	<0.002		
3/12/2021		0.0017 (J)			<0.002	
8/25/2021		<0.002	0.0017 (J)	<0.002		
8/26/2021	0.0024				<0.002	<0.002
1/11/2022						<0.002
3/3/2022	0.0023	<0.002	<0.002	<0.002	<0.002	<0.002
6/6/2022						<0.002
8/16/2022		<0.002				<0.002
8/17/2022					<0.002	
8/18/2022			<0.002			
8/19/2022	0.0024			<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-13	WGWC-14A	WGWC-15	WGWC-21
2/15/2023					<0.002	
2/16/2023	0.0014 (J)	<0.002	<0.002	<0.002		0.0015 (J)
8/21/2023	0.0029	<0.002	<0.002	<0.002	<0.002	<0.002
2/15/2024	0.0036		<0.002	<0.002	<0.002	<0.002
2/16/2024		<0.002				
Mean	0.001992	0.001924	0.001976	0.001988	0.00198	0.001938
Std. Dev.	0.0007359	0.000242	7.234E-05	6E-05	0.0001	0.0001768
Upper Lim.	0.002359	0.002	0.002	0.002	0.002	0.002
Lower Lim.	0.001625	0.0017	0.0019	0.0017	0.0015	0.0015

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-9
5/19/2016	<0.002
7/20/2016	<0.002
9/14/2016	<0.002
2/9/2017	<0.002
3/15/2017	<0.002
4/11/2017	<0.002
4/26/2017	<0.002
8/10/2017	<0.002
3/29/2018	<0.002
6/14/2018	<0.002
10/4/2018	<0.002
2/28/2019	0.0025
4/3/2019	<0.002
9/19/2019	<0.002
2/5/2020	<0.002
3/19/2020	<0.002
9/23/2020	<0.002
2/4/2021	<0.002
3/12/2021	<0.002
8/26/2021	<0.002
3/3/2022	<0.002
8/17/2022	<0.002
2/15/2023	<0.002
8/21/2023	<0.002
2/14/2024	0.002
Mean	0.00202
Std. Dev.	0.0001
Upper Lim.	0.0025
Lower Lim.	0.002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.00201 (J)					<0.0025
5/19/2016		<0.0025	<0.01	<0.0025		
7/19/2016						<0.0025
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
11/10/2016				<0.0025		<0.0025
11/11/2016	0.001 (J)	0.00052 (J)	0.0017 (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
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
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
8/10/2017	<0.0025	0.0011 (J)	0.00049 (J)			
3/29/2018		<0.0025	0.0008 (J)	0.0008 (J)	0.015	
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
10/3/2018						<0.0025
10/4/2018	0.00086 (J)	<0.0025	0.00079 (J)	<0.0025	0.0055	
2/27/2019	0.0005 (J)	0.0022 (J)	0.0006 (J)	0.00013 (J)	0.0049	<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				<0.0025	0.005	<0.0025
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
3/18/2020	0.0012 (J)	0.00069 (J)	0.00071 (J)			<0.0025
3/19/2020				<0.0025	0.0039	
9/23/2020	0.00062 (J)		0.00039 (J)			<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)
3/11/2021	0.00058 (J)			<0.0025	0.0037	
3/12/2021		0.0022 (J)	0.00042 (J)			<0.0025
8/25/2021		0.00045 (J)	0.0005 (J)	<0.0025	0.0029	
8/26/2021	0.00044 (J)					<0.0025
3/3/2022	0.00045 (J)	0.00026 (J)		<0.0025	0.0024 (J)	<0.0025
3/4/2022			0.00056 (J)			
8/16/2022		<0.0025				
8/17/2022						<0.0025
8/18/2022			0.00034 (J)	<0.0025		
8/19/2022	0.0014 (J)				0.002 (J)	
2/15/2023						<0.0025

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/16/2023	<0.0025	<0.0025	0.0004 (J)	<0.0025	0.0022 (J)	
8/21/2023	0.00038 (J)	<0.0025	0.00025 (J)	0.00024 (J)	0.002 (J)	<0.0025
2/14/2024			0.00045 (J)			
2/15/2024	<0.0025			<0.0025	0.0017 (J)	<0.0025
2/16/2024		<0.0025				
Mean	0.001125	0.001654	0.0008748	0.001997	0.006696	0.002406
Std. Dev.	0.0007022	0.0009451	0.0009949	0.0009197	0.004487	0.00047
Upper Lim.	0.001366	0.0025	0.000911	0.0025	0.008255	0.0025
Lower Lim.	0.0007574	0.00069	0.0004261	0.0008	0.004115	0.00015

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
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)
1/11/2022					0.00032 (J)	0.00025 (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)
6/6/2022					0.001 (J)	
6/7/2022				<0.0025		<0.0025
8/16/2022		<0.0025			0.00039 (J)	
8/17/2022	<0.0025		<0.0025			
8/18/2022				<0.0025		
8/19/2022						<0.0025
2/15/2023	<0.0025					<0.0025
2/16/2023		<0.0025	0.00053 (J)	<0.0025	<0.0025	
8/15/2023				<0.0025		
8/18/2023	<0.0025					
8/21/2023		<0.0025	0.00026 (J)		<0.0025	<0.0025

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
2/13/2024				<0.0025		
2/14/2024						<0.0025
2/15/2024	<0.0025	<0.0025	<0.0025		<0.0025	
Mean	0.005893	0.001364	0.001286	0.001979	0.001256	0.001684
Std. Dev.	0.005861	0.0008731	0.001103	0.0009655	0.001051	0.001127
Upper Lim.	0.004253	0.001117	0.0025	0.0025	0.0025	0.0025
Lower Lim.	0.0006033	0.0005199	0.00025	0.00037	0.00032	0.00025

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	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	0.00017 (J)	0.13	0.005		0.0005 (J)	<0.0025
1/11/2022	0.00016 (J)	0.11	0.0048			
3/3/2022		0.086			0.0003 (J)	<0.0025
3/4/2022	<0.0025		0.004			
6/6/2022	<0.0025	0.042				
6/7/2022			0.0043			
8/16/2022					0.00075 (J)	
8/17/2022	<0.0025		0.0037			<0.0025
8/18/2022		0.031				
10/19/2022				0.002 (J)		
2/15/2023	<0.0025	0.084	0.0049			<0.0025
2/16/2023				0.0013 (J)	<0.0025	
8/15/2023				0.0018 (J)		
8/18/2023			0.0081		<0.0025	
8/21/2023	<0.0025	0.035				<0.0025
2/13/2024					<0.0025	
2/14/2024		0.045				<0.0025
2/15/2024	<0.0025		0.0062	0.0018 (J)		
Mean	0.001916	0.07038	0.005125	0.001725	0.001798	0.002429
Std. Dev.	0.001081	0.03743	0.001422	0.0002986	0.001011	0.000354
Upper Lim.	0.0025	0.11	0.006632	0.002403	0.0025	0.0025
Lower Lim.	0.00016	0.0307	0.003618	0.001047	0.00075	0.00073

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.182 (U)					0.569
5/19/2016		0.431 (U)	0.0698 (U)	0.219 (U)		
7/19/2016						0.29 (U)
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)
11/10/2016				1		0.709
11/11/2016	0.542	0.0257 (U)	0.467			
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						0.247 (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						0.515
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	
8/9/2017				0.816		1.7
8/10/2017	0.189 (U)	0.326 (U)	0.912			
3/29/2018		0.461	0.419	0.51	0.58	
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)
10/3/2018						0.766
10/4/2018	0.84	1.18	1.29	0.99	0.563	
2/27/2019	0.236 (U)	0.374	0.415	1.08	0.538	0.363 (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				0.392	0.376 (U)	0.484
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)
3/18/2020	0.461 (U)	0.866	-0.0262 (U)			0.303 (U)
3/19/2020				0.47	0.376 (U)	
9/23/2020	0.442 (U)		0.785			0.448 (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)
3/11/2021	0.42 (U)			0.473	0.764	
3/12/2021		0.0729 (U)	0.633			0.591
8/25/2021		0.401	0.443 (U)	0.913	0.705	
8/26/2021	0.321 (U)					0.678
3/3/2022	0.587	0.622		0.621	0.956	0.358 (U)
3/4/2022			0.408			
8/16/2022		0.5				
8/17/2022						0.563
8/18/2022			0.279 (U)	0.719		
8/19/2022	0.497 (U)				0.932	
2/15/2023						0.0878 (U)

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/16/2023	0.326 (U)	0.417 (U)	0.388 (U)	0.2 (U)	0.455 (U)	
9/28/2023	-0.112 (U)	0.297 (U)	0.45 (U)	-0.09 (U)	0.277 (U)	0.0271 (U)
2/14/2024			0.813			
2/15/2024	0.126 (U)			0.585	0.482 (U)	0.607
2/16/2024		-0.00801 (U)				
Mean	0.3005	0.3905	0.4046	0.5838	0.6833	0.4719
Std. Dev.	0.2387	0.3625	0.3371	0.2987	0.2973	0.3342
Upper Lim.	0.4195	0.5712	0.5726	0.7327	0.798	0.5843
Lower Lim.	0.1815	0.2098	0.2365	0.4349	0.5292	0.2807

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
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
1/11/2022					0.919	6.91
1/12/2022				1.09		
3/3/2022	0.573		0.909		1.31	
3/4/2022		0.573		0.925		7.57
6/6/2022					2.61	
6/7/2022				0.67		4.67
8/16/2022		0.668			1.35	
8/17/2022	0.946		0.155 (U)			
8/18/2022				0.994		
8/19/2022						3.07
2/15/2023	0.734					5.98
2/16/2023		0.121 (U)	0.248 (U)	0.853	0.617	
9/13/2023				0.591 (U)		
9/21/2023					2.44	4.47
9/28/2023	0.732	0.533 (U)	0.369 (U)			

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
2/13/2024				1.06		
2/14/2024						5.46
2/15/2024	0.582	0.257 (U)	0.523		1.3	
Mean	1.225	0.3484	0.3804	0.9729	1.465	5.209
Std. Dev.	0.8575	0.34	0.3058	0.3092	0.7	1.573
Upper Lim.	1.512	0.5179	0.5328	1.301	2.206	6.876
Lower Lim.	0.7444	0.1789	0.228	0.6451	0.7225	3.541

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	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	0.703	1.63	1.12		2.87	0.681
1/11/2022	0.218 (U)	0.749	0.606			
3/3/2022		0.893			3.18	0.431 (U)
3/4/2022	0.437 (U)		0.818			
6/6/2022	1.45	0.845				
6/7/2022			0.5			
8/16/2022					2.4	
8/17/2022	0.976		0.763			0.139 (U)
8/18/2022		1.03				
10/19/2022				0.185 (U)		
2/15/2023	0.985	0.974	0.873			0.0109 (U)
2/16/2023				2.16	3.04	
9/13/2023				3.88		
9/21/2023	1.91	1.62				
9/28/2023			0.581 (U)		2.65	0.209 (U)
2/13/2024					2.44	
2/14/2024		0.674				0.279 (U)
2/15/2024	0.232 (U)		0.672	5.82		
Mean	0.8639	1.052	0.7416	3.011	1.896	0.2835
Std. Dev.	0.5964	0.3715	0.1979	2.405	0.711	0.226
Upper Lim.	1.496	1.431	0.9514	8.472	2.25	0.3961
Lower Lim.	0.2317	0.6877	0.5319	-2.45	1.542	0.1708

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.206					0.779
5/19/2016		0.039 (J)	0.12 (J)	0.384		
7/19/2016						0.97
7/20/2016	0.23	<0.2	0.11 (J)	0.34		
9/14/2016	0.17 (J)	<0.2	0.095 (J)	0.31		0.89
11/10/2016				0.26		0.88
11/11/2016	0.14 (J)	<0.2	<0.2			
1/24/2017						0.92
1/27/2017		<0.2	<0.2	0.28		
2/6/2017	0.15 (J)					
2/8/2017					<0.2	
2/23/2017					<0.2	
3/14/2017						0.77
3/15/2017	0.16 (J)	<0.2	<0.2	0.3		
3/17/2017					<0.2	
4/11/2017					<0.2	
4/25/2017						0.95
4/26/2017	0.17 (J)	<0.2	<0.2	0.33	<0.2	
5/17/2017					<0.2	
6/7/2017					<0.2	
7/11/2017					<0.2	
8/9/2017				0.32		0.91
8/10/2017	0.2	<0.2	0.11 (J)			
10/11/2017					<0.2	0.88
10/12/2017	0.14 (J)	<0.2	0.091 (J)	0.28		
3/29/2018		<0.2	0.089 (J)	0.27	<0.2	
3/30/2018	0.13 (J)					0.79
6/14/2018	0.15 (J)	<0.2	0.1 (J)	0.27	<0.2	0.79
10/3/2018						0.79
10/4/2018	0.18 (J)	<0.2	0.12 (J)	0.23	<0.2	
2/27/2019	0.21	0.047 (J)	0.06 (J)	0.25	<0.2	0.81
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				0.22	0.035 (J)	0.81
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
3/18/2020	0.052 (J)	<0.2	0.033 (J)			0.71
3/19/2020				0.15	<0.2	
9/23/2020	0.09 (J)		0.064 (J)			0.63
9/24/2020		0.18		<0.2	0.028 (J)	
2/3/2021		0.027 (J)	0.082 (J)			
2/4/2021	0.12			0.16	0.033 (J)	0.69
3/11/2021	0.15			0.18	0.04 (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)	
8/26/2021	0.16					0.77
3/3/2022	0.067 (J)	0.055 (J)		0.21	0.057 (J)	0.88
3/4/2022			0.068 (J)			
8/16/2022		<0.2				
8/17/2022						0.68
8/18/2022			0.073 (J)	0.14		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
8/19/2022	0.1				<0.2	
2/15/2023						0.73
2/16/2023	0.11	0.041 (J)	0.089 (J)	0.15	<0.2	
8/23/2023	0.1	0.041 (J)	0.083 (J)	0.13	0.04 (J)	0.73
2/14/2024			0.044 (J)			
2/15/2024	<0.2			0.21 (J)	<0.2	0.89
2/16/2024		<0.2				
Mean	0.1417	0.1331	0.1055	0.2352	0.1458	0.8115
Std. Dev.	0.04352	0.07838	0.04707	0.07267	0.07627	0.08782
Upper Lim.	0.1629	0.2	0.0947	0.2706	0.2	0.8543
Lower Lim.	0.1205	0.045	0.07011	0.1997	0.048	0.7687

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
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	<0.2	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	<0.2	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)	<0.2				
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
3/11/2021	0.061 (J)	0.05 (J)	0.31			
4/7/2021					1.6	
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
1/11/2022					1.9	0.45
1/12/2022				1.8		
3/3/2022	0.067 (J)		0.4		1.8	
3/4/2022		0.06 (J)		2		0.42
6/6/2022					1.9	
6/7/2022				2.5		0.37
8/16/2022		0.06 (J)			1.8	
8/17/2022	0.062 (J)		0.28			
8/18/2022				2		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
8/19/2022						0.31
2/15/2023	0.076 (J)					0.31
2/16/2023		0.069 (J)	0.33	1.9	1.9	
8/17/2023				2.1		
8/22/2023	0.065 (J)					
8/23/2023		0.064 (J)	0.34		1.8	0.32
2/13/2024				<0.2		
2/14/2024						0.23
2/15/2024	<0.2	<0.2	0.4		2.2	
Mean	0.141	0.1037	0.35	1.79	1.86	0.542
Std. Dev.	0.166	0.04299	0.04587	0.6332	0.1647	0.3881
Upper Lim.	0.13	0.1246	0.3724	2.226	2.007	0.7625
Lower Lim.	0.067	0.08274	0.3276	1.475	1.713	0.2727

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	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			<0.2			
3/9/2021	0.092 (J)	1				
3/11/2021					0.16	
3/12/2021						0.98
4/7/2021	0.093 (J)	1.1				
4/8/2021			0.028 (J)			
8/26/2021	0.081 (J)	1.2	0.047 (J)		0.21	1
1/11/2022	0.045 (J)	1	0.028 (J)			
3/3/2022		0.71			0.19	1
3/4/2022	0.045 (J)		0.038 (J)			
6/6/2022	0.028 (J)	0.43				
6/7/2022			<0.2			
8/16/2022					0.21	
8/17/2022	0.043 (J)		<0.2			0.9
8/18/2022		0.24				
10/19/2022				0.52		
2/15/2023	0.048 (J)	0.63	<0.2			0.85
2/16/2023				0.92	0.14	
8/17/2023				1.1		
8/22/2023			0.049 (J)		0.15 (J)	0.9
8/23/2023	0.045 (J)	0.28				
2/13/2024					<0.2	
2/14/2024		<0.2				0.73
2/15/2024	<0.2		<0.2	1.2		
Mean	0.062	0.669	0.119	0.935	0.2494	1.253
Std. Dev.	0.02634	0.3953	0.08564	0.2999	0.1252	0.3214

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9
Upper Lim.	0.08465	1.022	0.2	1.616	0.3104	1.409
Lower Lim.	0.03878	0.3163	0.028	0.254	0.1884	1.096

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.001					<0.001
5/19/2016		<0.001	<0.001	<0.001		
7/19/2016						<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
11/10/2016				0.00047 (J)		<0.001
11/11/2016	<0.001	<0.001	<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
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
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
8/10/2017	<0.001	<0.001	<0.001			
3/29/2018		<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
4/3/2019		<0.001	<0.001	0.00047 (J)	<0.001	
4/4/2019	<0.001					<0.001
9/18/2019				0.00045 (J)	<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
3/18/2020	0.00021 (J)	<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
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)
3/11/2021	0.00032 (J)			0.00075 (J)	0.00031 (J)	
3/12/2021		0.00038 (J)	<0.001			<0.001
8/25/2021		0.00023 (J)	<0.001	0.00025 (J)	0.00041 (J)	
8/26/2021	0.00026 (J)					<0.001
3/3/2022	0.00025 (J)	<0.001		0.00023 (J)	0.00057 (J)	<0.001
3/4/2022			0.00033 (J)			
8/16/2022		<0.001				
8/17/2022						<0.001
8/18/2022			<0.001	0.0011		
8/19/2022	0.0003 (J)				0.00036 (J)	
2/15/2023						<0.001
2/16/2023	<0.001	<0.001	<0.001	0.00027 (J)	0.00024 (J)	
8/21/2023	<0.001	<0.001	<0.001	0.00025 (J)	0.00022 (J)	<0.001
2/14/2024			<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/15/2024	0.0007 (J)			<0.001	0.00029 (J)	<0.001
2/16/2024		<0.001				
Mean	0.0006591	0.0008939	0.0009709	0.0006913	0.0006904	0.0009696
Std. Dev.	0.0003792	0.0002423	0.0001397	0.0003124	0.0003707	0.000146
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00025	0.00058	0.00033	0.00045	0.00029	0.0003

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-22	WGWC-23	WGWC-24
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	0.00022 (J)	<0.001	0.0012
1/11/2022				0.00023 (J)	<0.001	0.00082 (J)
3/3/2022	<0.001		0.0003 (J)			0.00076 (J)
3/4/2022		<0.001		0.00036 (J)	<0.001	
6/6/2022					<0.001	0.00047 (J)
6/7/2022				<0.001		
8/16/2022		<0.001				
8/17/2022	<0.001		<0.001		<0.001	
8/18/2022						0.00032 (J)
8/19/2022				0.00037 (J)		
2/15/2023	<0.001			0.00023 (J)	0.0046	0.00056 (J)
2/16/2023		<0.001	<0.001			
8/18/2023	<0.001					
8/21/2023		<0.001	<0.001	<0.001	<0.001	0.00029 (J)
2/14/2024				<0.001		0.00037 (J)
2/15/2024	<0.001	<0.001	<0.001		<0.001	
Mean	0.0009248	0.0009361	0.0009696	0.0005513	0.00145	0.0005988
Std. Dev.	0.0002492	0.0002127	0.000146	0.000376	0.001273	0.0003117

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-22	WGWC-23	WGWC-24
Upper Lim.	0.001	0.001	0.001	0.001	0.0046	0.0009291
Lower Lim.	0.00014	0.00033	0.0003	0.00022	0.001	0.0002684

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	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	0.00014 (J)	<0.001
3/3/2022	0.00052 (J)	<0.001
8/16/2022	0.00041 (J)	
8/17/2022		<0.001
2/15/2023		<0.001
2/16/2023	0.00029 (J)	
8/18/2023	<0.001	
8/21/2023		<0.001
2/13/2024	<0.001	
2/14/2024		<0.001
Mean	0.000737	0.0009626
Std. Dev.	0.0003777	0.0001793
Upper Lim.	0.001	0.001
Lower Lim.	0.00029	0.00014

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	0.032					<0.005
5/19/2016		<0.005	<0.05	<0.005		
7/19/2016						0.0036 (J)
7/20/2016	0.021	<0.005	0.0057	<0.005		
9/14/2016	0.02	<0.005	0.0077	<0.005		<0.005
11/10/2016				0.0038 (J)		0.0064
11/11/2016	0.017	<0.005	0.007			
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						0.0057
3/15/2017	0.014	<0.005	0.0077	<0.005		
3/17/2017					<0.005	
4/11/2017					<0.005	
4/25/2017						0.0059
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	
8/9/2017				<0.005		0.0068
8/10/2017	0.011	<0.005	0.0064			
3/29/2018		0.0018 (J)	0.01	0.0022 (J)	0.0025 (J)	
3/30/2018	0.016					0.0077
6/14/2018	0.0084	0.0011 (J)	0.0062	0.0018 (J)	0.0018 (J)	0.0052
10/3/2018						0.006
10/4/2018	0.0085	0.0014 (J)	0.0066	0.0025 (J)	0.0016 (J)	
2/27/2019	0.0068	<0.005	0.0068	<0.005	<0.005	0.0055
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	0.0054
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
3/18/2020	0.0071	<0.005	0.0081			0.0086
3/19/2020				<0.005	<0.005	
9/23/2020	0.0054		0.007			0.0071
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
3/11/2021	0.0051			0.0037 (J)	0.0035 (J)	
3/12/2021		<0.005	0.0089			0.0096
8/25/2021		<0.005	0.0061	<0.005	<0.005	
8/26/2021	0.0044 (J)					0.0059
3/3/2022	0.0038 (J)	<0.005		0.0018 (J)	0.0019 (J)	0.0068
3/4/2022			0.0061			
8/16/2022		0.00092 (J)				
8/17/2022						0.0073
8/18/2022			0.0063	0.0024 (J)		
8/19/2022	0.0049 (J)				0.0021 (J)	
2/15/2023						0.0062

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/16/2023	0.0025 (J)	<0.005	0.0036 (J)	<0.005	<0.005	
8/21/2023	0.0024 (J)	<0.005	0.0056	<0.005	<0.005	0.0055
2/14/2024			0.0045 (J)			
2/15/2024	0.0088			<0.005	<0.005	0.0055
2/16/2024		<0.005				
Mean	0.01002	0.004409	0.007272	0.004328	0.004084	0.00616
Std. Dev.	0.007036	0.001389	0.004071	0.001176	0.001349	0.001689
Upper Lim.	0.01233	0.005	0.0075	0.005	0.005	0.007002
Lower Lim.	0.006225	0.0018	0.0061	0.0038	0.0033	0.005318

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
5/18/2016	<0.005	<0.05				
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
3/11/2021	0.005	0.0049 (J)	0.051			
4/7/2021					0.031	
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
1/11/2022					0.038	0.011
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
6/6/2022					0.051	
6/7/2022				0.12		0.0093
8/16/2022		0.0053			0.059	
8/17/2022	0.0042 (J)		0.056			
8/18/2022				0.11		
8/19/2022						0.01
2/15/2023	0.0044 (J)					0.009

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
2/16/2023		0.0026 (J)	0.053	0.14	0.053	
8/15/2023				0.13		
8/18/2023	<0.005					
8/21/2023		0.0031 (J)	0.062		0.061	0.0069
2/13/2024				0.15		
2/14/2024						0.0028 (J)
2/15/2024	0.0032 (J)	0.0026 (J)	0.056		0.074	
Mean	0.00742	0.005664	0.05276	0.127	0.0465	0.00901
Std. Dev.	0.003629	0.004175	0.006802	0.01703	0.01604	0.002598
Upper Lim.	0.009229	0.0056	0.05615	0.15	0.06081	0.01101
Lower Lim.	0.005611	0.0044	0.04937	0.11	0.03219	0.007295

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	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	<0.005	0.0084				
3/11/2021					0.013	
3/12/2021						0.034
4/7/2021	<0.005	0.0077				
4/8/2021			0.0044 (J)			
8/26/2021	<0.005	0.0076	0.0044 (J)		0.013	0.03
1/11/2022	<0.005	0.0091	0.0043 (J)			
3/3/2022		0.0066			0.014	0.03
3/4/2022	0.0015 (J)		0.0035 (J)			
6/6/2022	0.002 (J)	0.0044 (J)				
6/7/2022			0.004 (J)			
8/16/2022					0.014	
8/17/2022	0.0017 (J)		0.0036 (J)			0.028
8/18/2022		0.0036 (J)				
10/19/2022				0.0072		
2/15/2023	<0.005	0.0068	0.0031 (J)			0.033
2/16/2023				0.024	0.01	
8/15/2023				0.036		
8/18/2023			<0.005		0.0084	
8/21/2023	<0.005	0.0022 (J)				0.03
2/13/2024					0.012	
2/14/2024		0.0044 (J)				0.026
2/15/2024	0.0044 (J)		0.0063	0.038		
Mean	0.00396	0.00608	0.00407	0.0263	0.01596	0.03414
Std. Dev.	0.001552	0.002287	0.001026	0.01415	0.009277	0.005057
Upper Lim.	0.005	0.008121	0.004986	0.05844	0.015	0.03666

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-8	WGWC-9
Lower Lim.	0.0017	0.004039	0.003154	0	0.013	0.03162

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.0002					<0.0002
5/19/2016		<0.0002	<0.0002	<0.0002		
7/19/2016						9.3E-05 (J)
7/20/2016	8.2E-05 (J)	8.2E-05 (J)	0.00011 (J)	8.1E-05 (J)		
9/14/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
11/10/2016				8.3E-05 (J)		8.5E-05 (J)
11/11/2016	8.5E-05 (J)	0.00011 (J)	7.9E-05 (J)			
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						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
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	
8/9/2017				<0.0002		<0.0002
8/10/2017	<0.0002	<0.0002	<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
10/3/2018						<0.0002
10/4/2018	<0.0002	<0.0002	<0.0002	<0.0002	<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	
2/7/2020						<0.0002
3/18/2020	<0.0002	<0.0002	<0.0002			<0.0002
3/19/2020				<0.0002	<0.0002	
9/23/2020	<0.0002		<0.0002			<0.0002
9/24/2020		<0.0002		<0.0002	<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
3/4/2022			<0.0002			
8/16/2022		<0.0002				
8/17/2022						<0.0002
8/18/2022			<0.0002	<0.0002		
8/19/2022	<0.0002				<0.0002	
2/15/2023						<0.0002
2/16/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/24/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/14/2024			<0.0002			
2/15/2024	<0.0002			<0.0002	<0.0002	<0.0002
2/16/2024		<0.0002				
Mean	0.00018	0.0001901	0.0001847	0.0001888	0.0001967	0.0001779
Std. Dev.	4.321E-05	3.159E-05	3.629E-05	3.549E-05	1.528E-05	4.691E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
Lower Lim.	0.00013	0.00011	0.00018	8.3E-05	0.00013	9.3E-05

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
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)
1/11/2022					<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
6/6/2022					<0.0002	
6/7/2022				<0.0002		<0.0002
8/16/2022		<0.0002			<0.0002	
8/17/2022	<0.0002		<0.0002			
8/18/2022				<0.0002		
8/19/2022						<0.0002
2/15/2023	<0.0002					<0.0002
2/16/2023		<0.0002	<0.0002	<0.0002	<0.0002	
8/18/2023				<0.0002		
8/22/2023	<0.0002					
8/24/2023		<0.0002	<0.0002		<0.0002	<0.0002
2/13/2024				<0.0002		
2/14/2024						<0.0002
2/15/2024	<0.0002	<0.0002	<0.0002		<0.0002	
Mean	0.0001895	0.000194	0.0001903	0.0002162	0.0002	0.0001975
Std. Dev.	3.248E-05	2.75E-05	3.146E-05	4.596E-05	1.8E-12	7.071E-06

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-16	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22
Upper Lim.	0.0002	0.0002	0.0002	0.00033	0.0002	0.0002
Lower Lim.	0.00019	7.4E-05	0.00012	0.0002	0.0002	0.00018

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-23	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	0.00022	0.00026	0.0019		
1/11/2022	<0.0002	<0.0002	<0.0002		
3/3/2022		<0.0002		<0.0002	<0.0002
3/4/2022	<0.0002		<0.0002		
6/6/2022	<0.0002	<0.0002			
6/7/2022			<0.0002		
8/16/2022				<0.0002	
8/17/2022	<0.0002		<0.0002		<0.0002
8/18/2022		<0.0002			
2/15/2023	<0.0002	<0.0002	<0.0002		<0.0002
2/16/2023				<0.0002	
8/22/2023			<0.0002	<0.0002	
8/24/2023	<0.0002	<0.0002			<0.0002
2/13/2024				<0.0002	
2/14/2024		<0.0002			<0.0002
2/15/2024	<0.0002		<0.0002		
Mean	0.0002025	0.0002075	0.0004125	0.0001866	0.0001967
Std. Dev.	7.071E-06	2.121E-05	0.000601	3.471E-05	1.528E-05
Upper Lim.	0.00022	0.00026	0.0019	0.0002	0.0002
Lower Lim.	0.0002	0.0002	0.0002	0.00013	0.00013

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
5/18/2016	<0.015					0.0153
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)		
9/14/2016	0.00091 (J)	<0.015	0.0009 (J)	0.0028 (J)		0.012 (J)
11/10/2016				0.0016 (J)		0.0065 (J)
11/11/2016	<0.015	<0.015	<0.015			
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)
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)
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)
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)
6/14/2018	<0.015	<0.015	<0.015	0.0018 (J)	<0.015	0.0056 (J)
10/3/2018						0.0041 (J)
10/4/2018	<0.015	<0.015	<0.015	<0.015	<0.015	
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)
9/18/2019				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	0.0012 (J)	<0.015	
2/7/2020						0.0024 (J)
3/18/2020	<0.015	<0.015	<0.015			0.002 (J)
3/19/2020				0.0018 (J)	<0.015	
9/23/2020	<0.015		<0.015			0.0031 (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)
3/11/2021	<0.015			0.0013 (J)	<0.015	
3/12/2021		<0.015	0.00062 (J)			0.0019 (J)
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		0.00094 (J)	<0.015	0.0025 (J)
3/4/2022			<0.015			
8/16/2022		<0.015				
8/17/2022						0.0025 (J)
8/18/2022			<0.015	0.00087 (J)		
8/19/2022	<0.015				<0.015	
2/15/2023						0.0027 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-15
2/16/2023	<0.015	<0.015	<0.015	0.0013 (J)	<0.015	
8/21/2023	<0.015	<0.015	<0.015	0.0012 (J)	<0.015	0.003 (J)
2/14/2024			<0.015			
2/15/2024	<0.015			0.0012 (J)	<0.015	0.0021 (J)
2/16/2024		<0.015				
Mean	0.01387	0.01391	0.01174	0.002562	0.01444	0.004668
Std. Dev.	0.003899	0.003767	0.005969	0.002052	0.0028	0.003243
Upper Lim.	0.015	0.015	0.015	0.002815	0.015	0.005205
Lower Lim.	0.00093	0.0017	0.0046	0.001488	0.001	0.002999

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-9
5/18/2016	0.00526 (J)					
5/19/2016						0.00762 (J)
7/20/2016	0.0066 (J)					0.0084 (J)
9/14/2016	0.0081 (J)					0.0071 (J)
11/10/2016	0.0076 (J)					
11/11/2016		<0.015				
1/20/2017	0.0094 (J)					
2/6/2017		0.001 (J)				
2/9/2017						0.018
3/14/2017	0.0044 (J)					
3/15/2017		<0.015				0.0057 (J)
4/11/2017		<0.015				0.0047 (J)
4/25/2017	0.0074 (J)					
4/26/2017		<0.015				0.004 (J)
6/7/2017		0.0015 (J)				
7/11/2017		<0.015				
8/9/2017	0.0066 (J)					
8/10/2017		0.0016 (J)				0.0046 (J)
3/29/2018		0.0012 (J)				0.0048 (J)
3/30/2018	0.0024 (J)					
6/14/2018	0.0026 (J)	0.0014 (J)				0.0046 (J)
10/4/2018	0.00085 (J)	<0.015				0.003 (J)
2/26/2019	0.0032 (J)					
2/28/2019		0.0013 (J)				0.0053
4/2/2019		<0.015				
4/3/2019						0.0026 (J)
4/4/2019	0.002 (J)					
9/18/2019	0.0026 (J)	0.0011 (J)				
9/19/2019						0.0048 (J)
2/5/2020						0.0044 (J)
2/7/2020	0.0025 (J)	0.0014 (J)				
3/18/2020	0.0024 (J)					
3/19/2020						0.0042 (J)
5/4/2020		0.0013 (J)				
9/23/2020	0.0027 (J)	0.0013 (J)				0.0027 (J)
2/3/2021		0.0013 (J)				
2/4/2021	0.0025 (J)					0.003 (J)
3/11/2021	0.0022 (J)	0.0012 (J)				
3/12/2021						0.003 (J)
8/25/2021	0.0022 (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	0.0021 (J)		<0.015		0.00084 (J)	
6/6/2022				0.032		
6/7/2022			<0.015		<0.015	
8/16/2022	0.0024 (J)			0.042		
8/17/2022		0.001 (J)				0.0027 (J)
8/18/2022			<0.015			
8/19/2022					<0.015	
2/15/2023					<0.015	0.0025 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-17	WGWC-19	WGWC-20	WGWC-21	WGWC-22	WGWC-9
2/16/2023	0.0022 (J)	0.0014 (J)	<0.015	0.034		
8/15/2023			<0.015			
8/21/2023	0.0023 (J)	0.0013 (J)		0.029	<0.015	0.0031 (J)
2/13/2024			<0.015			
2/14/2024					<0.015	0.0033 (J)
2/15/2024	0.0023 (J)	0.0014 (J)		0.023		
Mean	0.003792	0.005124	0.01143	0.03463	0.01323	0.004785
Std. Dev.	0.002382	0.006287	0.006617	0.006802	0.005006	0.003195
Upper Lim.	0.00526	0.0016	0.015	0.04183	0.015	0.0053
Lower Lim.	0.0023	0.0012	0.00062	0.02742	0.00084	0.0028

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-14A	WGWC-15	WGWC-16
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			
1/24/2017					<0.005	0.012
1/27/2017		<0.005	<0.005			
2/6/2017	<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
3/17/2017				<0.005		
4/11/2017				<0.005		
4/25/2017					<0.005	0.013
4/26/2017	<0.005	<0.005	<0.005	<0.005		
5/17/2017				<0.005		
6/7/2017				<0.005		
7/11/2017				<0.005		
8/9/2017					<0.005	0.016
8/10/2017	0.00031 (J)	0.00049 (J)	0.0021			
3/29/2018		<0.005	<0.005	0.0003 (J)		0.016
3/30/2018	<0.005				<0.005	
6/14/2018	<0.005	<0.005	<0.005	<0.005	0.0005 (J)	0.012
10/3/2018					<0.005	
10/4/2018	<0.005	<0.005	<0.005	<0.005		0.013
2/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005	0.0081
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)
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)
3/18/2020	<0.005	<0.005	<0.005		<0.005	0.0046 (J)
3/19/2020				<0.005		
9/23/2020	<0.005		<0.005		<0.005	0.0028 (J)
9/24/2020		<0.005		<0.005		
2/3/2021		<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)
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	
3/3/2022	<0.005	<0.005		<0.005	<0.005	0.0018 (J)
3/4/2022			<0.005			
8/16/2022		<0.005				
8/17/2022					<0.005	<0.005
8/18/2022			<0.005			
8/19/2022	<0.005			<0.005		
2/15/2023					<0.005	0.0019 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-12	WGWC-14A	WGWC-15	WGWC-16
2/16/2023	<0.005	<0.005	<0.005	<0.005		
8/18/2023						0.0018 (J)
8/21/2023	<0.005	<0.005	<0.005	<0.005	<0.005	
2/14/2024			<0.005			
2/15/2024	<0.005			<0.005	<0.005	<0.005
2/16/2024		<0.005				
Mean	0.004812	0.00482	0.004884	0.004812	0.00482	0.006926
Std. Dev.	0.000938	0.000902	0.00058	0.00094	0.0009	0.004803
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.008597
Lower Lim.	0.00031	0.00049	0.0021	0.0003	0.0005	0.004031

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-19	WGWC-20	WGWC-22	WGWC-23	WGWC-24	WGWC-8
5/19/2016						0.00518
7/20/2016						0.0038
9/15/2016						0.0034
11/11/2016	<0.005					
11/14/2016						0.0033
2/6/2017	<0.005					0.0033
3/15/2017	<0.005					0.003
4/11/2017	<0.005					
4/26/2017	<0.005					0.0032
6/7/2017	<0.005					
7/11/2017	<0.005					
8/10/2017	0.00036 (J)					0.0031
3/29/2018	<0.005					0.0034
6/14/2018	<0.005					0.0031
10/4/2018	<0.005					0.0033
2/27/2019						0.0035
2/28/2019	<0.005					
4/2/2019	<0.005					
4/3/2019						0.0031
9/18/2019	<0.005					
9/19/2019						0.0021 (J)
2/7/2020	<0.005					0.0048 (J)
3/19/2020						0.0037 (J)
5/4/2020	<0.005					
9/22/2020						0.0039 (J)
9/23/2020	<0.005					
2/3/2021	<0.005					0.0036 (J)
3/11/2021	<0.005					0.0038 (J)
8/26/2021	<0.005	0.0016 (J)	0.0049 (J)	0.002 (J)	<0.005	0.0037 (J)
1/11/2022			0.0065	0.0024 (J)	<0.005	
1/12/2022		<0.005				
3/3/2022	<0.005				0.00077 (J)	0.0038 (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)			
8/16/2022						0.0075
8/17/2022	<0.005			0.0013 (J)		
8/18/2022		0.0027 (J)			<0.005	
8/19/2022			0.0035 (J)			
2/15/2023			0.0077	0.0026 (J)	<0.005	
2/16/2023	<0.005	0.0017 (J)				0.0033 (J)
8/15/2023		0.0016 (J)				
8/18/2023						0.0037 (J)
8/21/2023	<0.005		0.0038 (J)	0.0024 (J)	<0.005	
2/13/2024		0.0035 (J)				0.007
2/14/2024			0.0041 (J)		<0.005	
2/15/2024	<0.005			0.003 (J)		
Mean	0.004814	0.00205	0.0053	0.002188	0.004471	0.003823
Std. Dev.	0.000928	0.0007653	0.001615	0.0005249	0.001496	0.001184
Upper Lim.	0.005	0.002816	0.007012	0.002744	0.005	0.0038
Lower Lim.	0.00036	0.001322	0.003588	0.001631	0.00077	0.0032

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-9
5/19/2016	0.00228
7/20/2016	0.0016
9/14/2016	0.0024
2/9/2017	0.0023
3/15/2017	0.0031
4/11/2017	0.0023
4/26/2017	0.0019
8/10/2017	0.0021
3/29/2018	0.0021
6/14/2018	0.0025
10/4/2018	0.002
2/28/2019	0.0027
4/3/2019	0.0019
9/19/2019	0.0026 (J)
2/5/2020	0.0033 (J)
3/19/2020	0.0033 (J)
9/23/2020	0.0029 (J)
2/4/2021	0.003 (J)
3/12/2021	0.0034 (J)
8/26/2021	0.0028 (J)
3/3/2022	0.0021 (J)
8/17/2022	0.0022 (J)
2/15/2023	0.0037 (J)
8/21/2023	0.0036 (J)
2/14/2024	0.0022 (J)
Mean	0.002571
Std. Dev.	0.000581
Upper Lim.	0.002861
Lower Lim.	0.002282

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-14A	WGWC-16	WGWC-19	WGWC-22
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
1/11/2022						<0.001
3/3/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
3/4/2022						0.00047 (J)
6/7/2022						<0.001
8/16/2022		<0.001				
8/17/2022				<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-10	WGWC-11	WGWC-14A	WGWC-16	WGWC-19	WGWC-22
8/19/2022	<0.001		<0.001			<0.001
2/15/2023				<0.001		<0.001
2/16/2023	<0.001	<0.001	<0.001		<0.001	
8/18/2023				<0.001		
8/21/2023	<0.001	<0.001	<0.001		<0.001	<0.001
2/14/2024						<0.001
2/15/2024	<0.001		<0.001	<0.001	<0.001	
2/16/2024		<0.001				
Mean	0.0009634	0.0009664	0.0006308	0.0006024	0.0009672	0.0009338
Std. Dev.	0.000183	0.000168	0.0004259	0.0004236	0.000164	0.0001874
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	8.5E-05	0.00016	0.00017	0.00017	0.00018	0.00047

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/18/2024 12:38 PM View: Confidence Intervals

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

	WGWC-24
8/26/2021	0.00072 (J)
1/11/2022	0.00062 (J)
3/3/2022	0.0006 (J)
6/6/2022	0.00052 (J)
8/18/2022	0.0003 (J)
2/15/2023	0.00045 (J)
8/21/2023	0.00028 (J)
2/14/2024	0.00033 (J)
Mean	0.0004775
Std. Dev.	0.0001643
Upper Lim.	0.0006516
Lower Lim.	0.0003034

FIGURE I.

Appendix IV - Trend Tests - Significant Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/11/2024, 5:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	**WGWA-1 (bg)**	**-0.00007539**	**-185**	**-85**	**Yes**	**25**	**4**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**WGWA-18 (bg)**	**-0.0002846**	**-143**	**-85**	**Yes**	**25**	**8**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**WGWA-2 (bg)**	**-0.00009633**	**-210**	**-85**	**Yes**	**25**	**8**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**WGWA-5 (bg)**	**-0.0002998**	**-119**	**-76**	**Yes**	**23**	**4.348**	**n/a**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**WGWC-19**	**0.001415**	**104**	**85**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV - Trend Tests - All Results

Plant Wansley Client: Southern Company Data: Wansley Ash Pond Printed 4/11/2024, 5:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	WGWA-1 (bg)	0	-21	-85	No	25	88	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-18 (bg)	0	0	85	No	25	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-2 (bg)	0	-19	-85	No	25	88	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-3 (bg)	0	-19	-85	No	25	92	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-4 (bg)	0	0	85	No	25	100	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-5 (bg)	0	-1	-81	No	24	95.83	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-6 (bg)	0	-2	-85	No	25	96	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWA-7 (bg)	0	-4	-85	No	25	96	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWC-20	0.000961	6	17	No	8	0	n/a	n/a	0.05	NP
Beryllium (mg/L)	WGWC-24	-0.003528	-15	-17	No	8	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	**WGWA-1 (bg)**	**-0.00007539**	**-185**	**-85**	**Yes**	**25**	**4**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**WGWA-18 (bg)**	**-0.0002846**	**-143**	**-85**	**Yes**	**25**	**8**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**WGWA-2 (bg)**	**-0.00009633**	**-210**	**-85**	**Yes**	**25**	**8**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	WGWA-3 (bg)	0	0	85	No	25	100	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-4 (bg)	0	2	85	No	25	96	n/a	n/a	0.05	NP
Cobalt (mg/L)	**WGWA-5 (bg)**	**-0.0002998**	**-119**	**-76**	**Yes**	**23**	**4.348**	**n/a**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	WGWA-6 (bg)	0	4	85	No	25	84	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWA-7 (bg)	0	-29	-85	No	25	64	n/a	n/a	0.05	NP
Cobalt (mg/L)	WGWC-24	-0.03692	-16	-17	No	8	0	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-1 (bg)	-0.00001334	-43	-81	No	24	37.5	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-18 (bg)	0	-5	-81	No	24	83.33	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-2 (bg)	0	-8	-81	No	24	0	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-3 (bg)	0	19	81	No	24	87.5	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-4 (bg)	0.00007688	34	81	No	24	4.167	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-5 (bg)	0	1	71	No	22	95.45	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-6 (bg)	0.0001055	43	76	No	23	8.696	n/a	n/a	0.05	NP
Lithium (mg/L)	WGWA-7 (bg)	0	9	81	No	24	95.83	n/a	n/a	0.05	NP
Lithium (mg/L)	**WGWC-19**	**0.001415**	**104**	**85**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	WGWC-20	0.008498	17	23	No	10	0	n/a	n/a	0.05	NP

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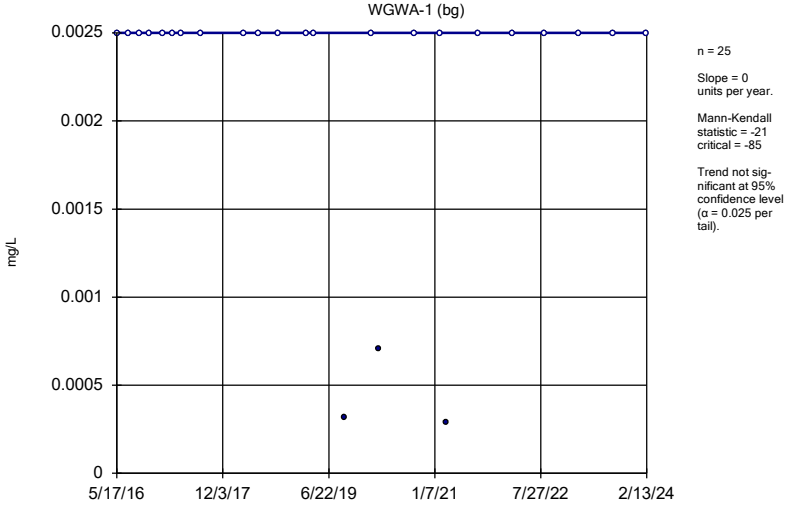
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-1 (bg)



n = 25

Slope = 0
units per year.

Mann-Kendall
statistic = -21
critical = -85

Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Beryllium Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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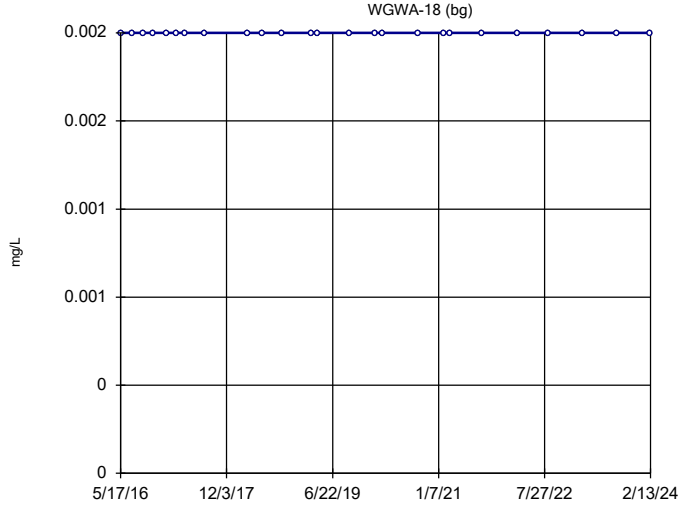
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-18 (bg)



n = 25

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 85

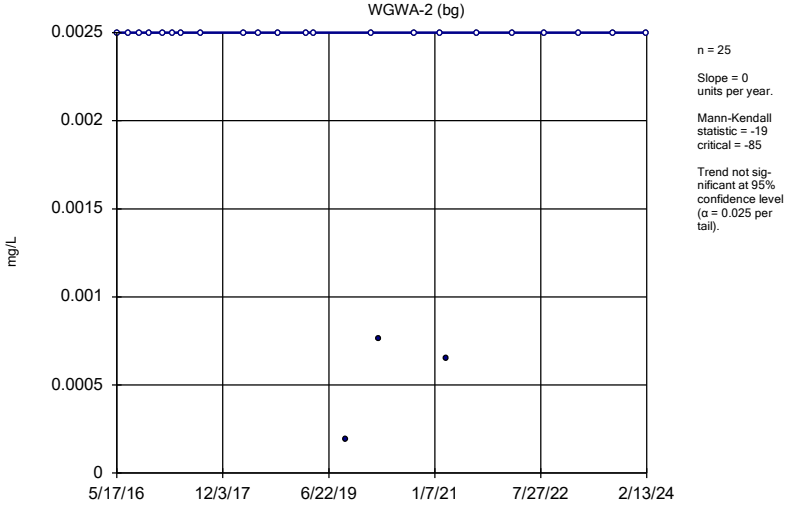
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Beryllium Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-2 (bg)



n = 25

Slope = 0
units per year.

Mann-Kendall
statistic = -19
critical = -85

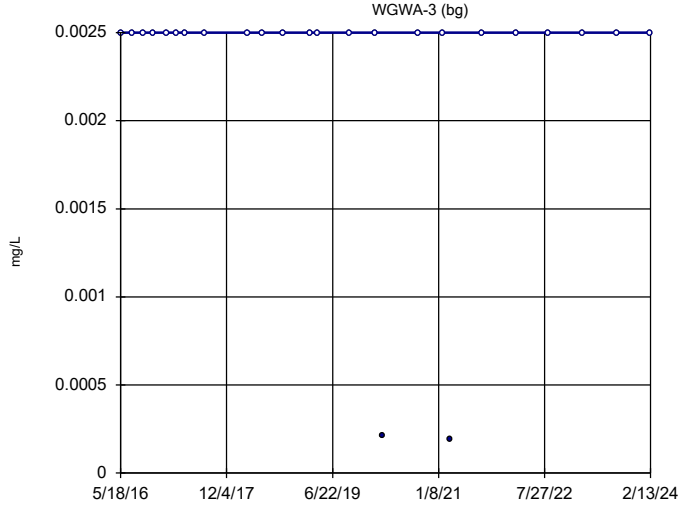
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Beryllium Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-3 (bg)



n = 25

Slope = 0
units per year.

Mann-Kendall
statistic = -19
critical = -85

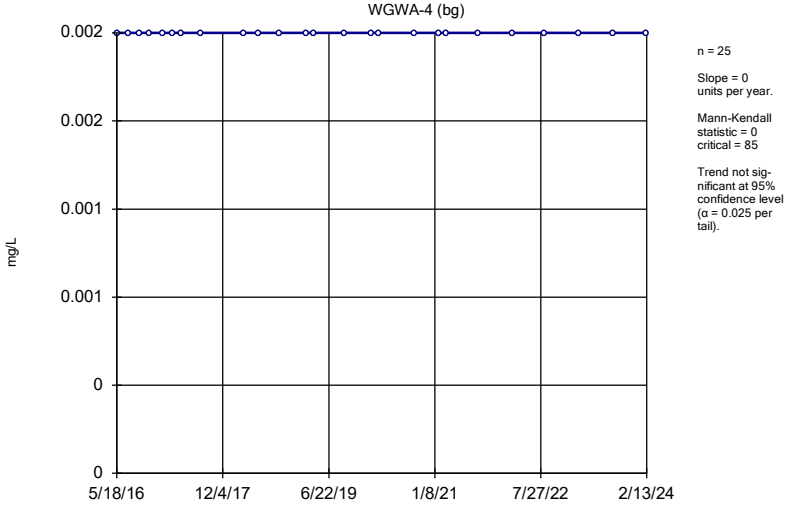
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Beryllium Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-4 (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 85

Trend not significant at 95% confidence level (α = 0.025 per tail).

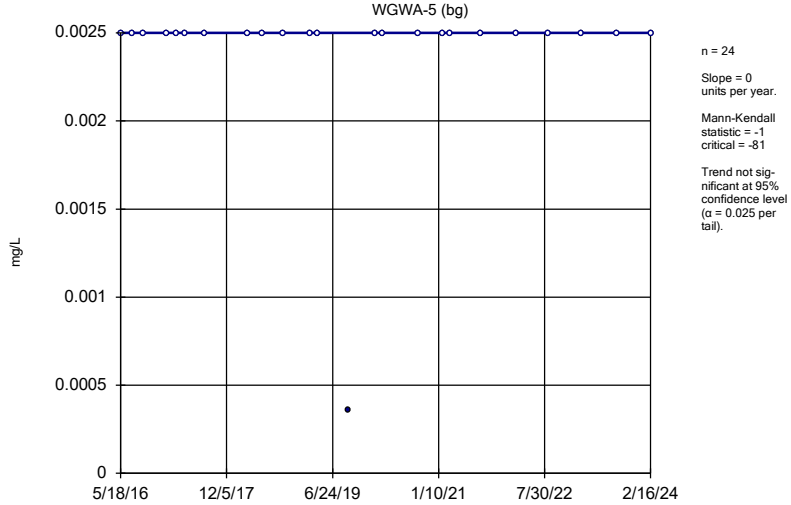
Constituent: Beryllium Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-5 (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = -1 critical = -81

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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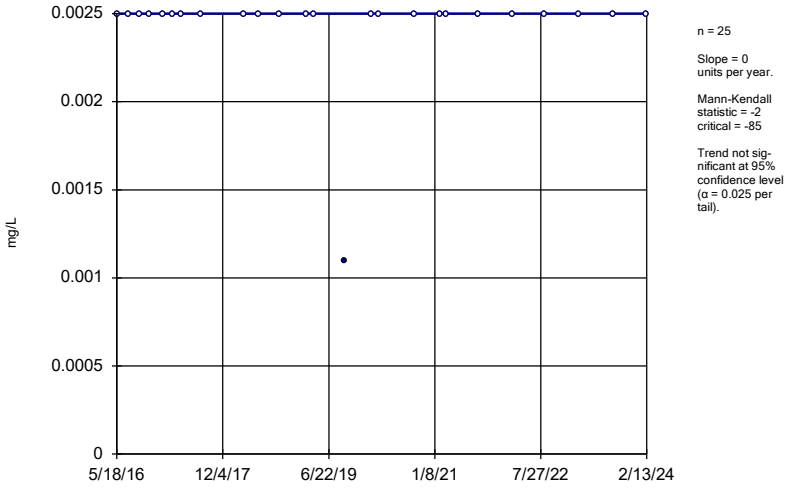
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-6 (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = -2 critical = -85

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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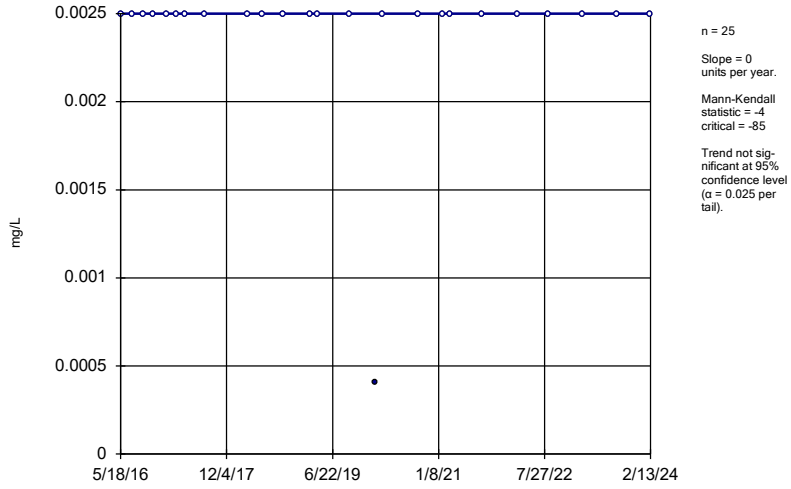
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-7 (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = -4 critical = -85

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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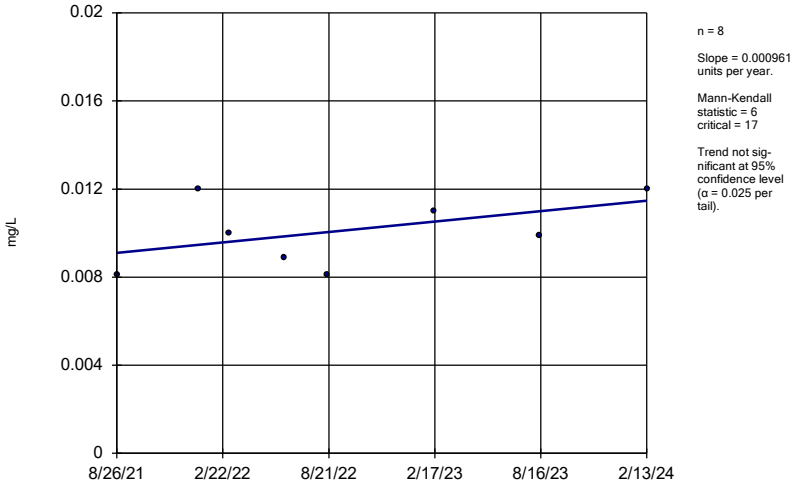
Sen's Slope Estimator

WGWC-20



n = 8

Slope = 0.000961 units per year.

Mann-Kendall statistic = 6
critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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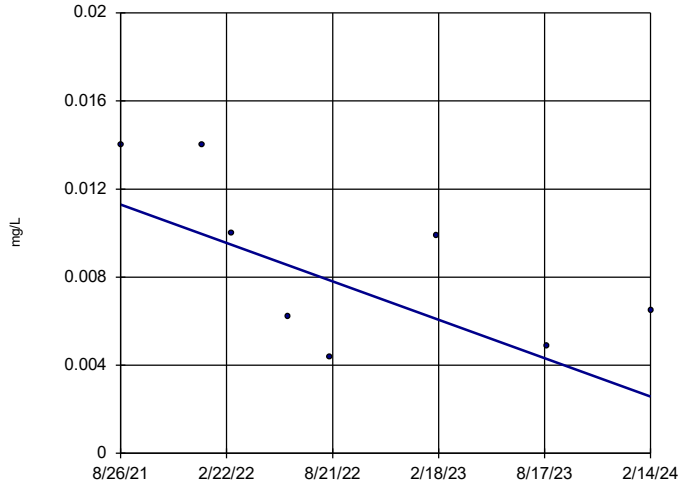
Sen's Slope Estimator

WGWC-24



n = 8

Slope = -0.003528 units per year.

Mann-Kendall statistic = -15
critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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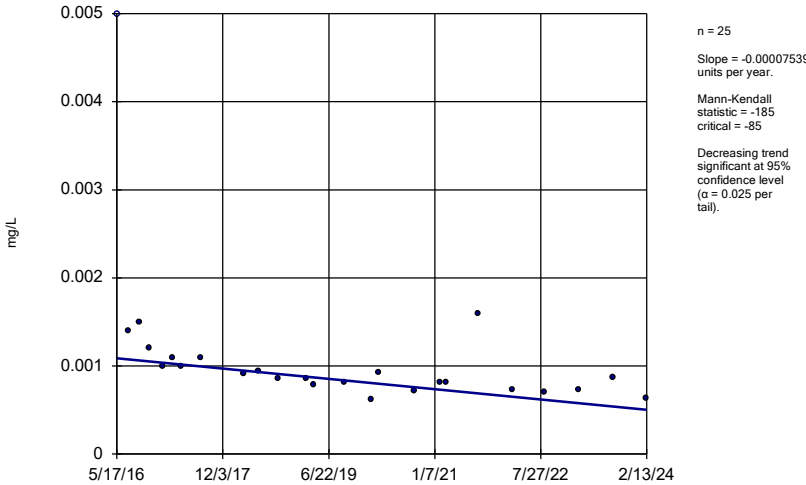
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-1 (bg)



n = 25

Slope = -0.00007539 units per year.

Mann-Kendall statistic = -185
critical = -85

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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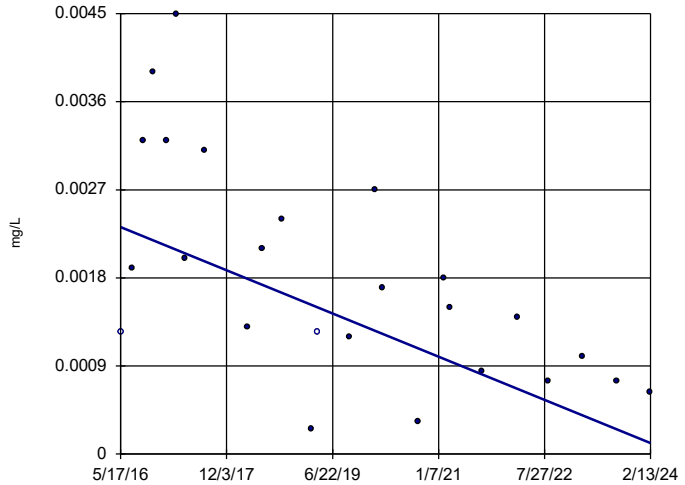
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-18 (bg)



n = 25

Slope = -0.0002846 units per year.

Mann-Kendall statistic = -143
critical = -85

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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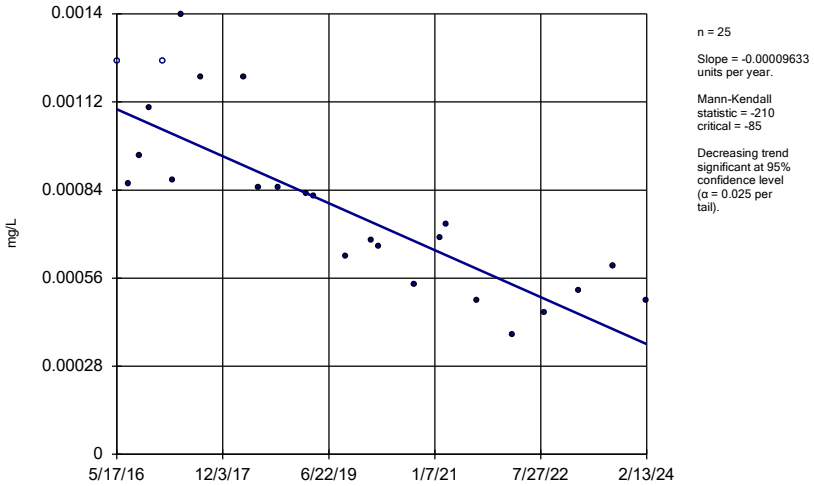
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-2 (bg)



n = 25

Slope = -0.00009633 units per year.

Mann-Kendall statistic = -210
critical = -85

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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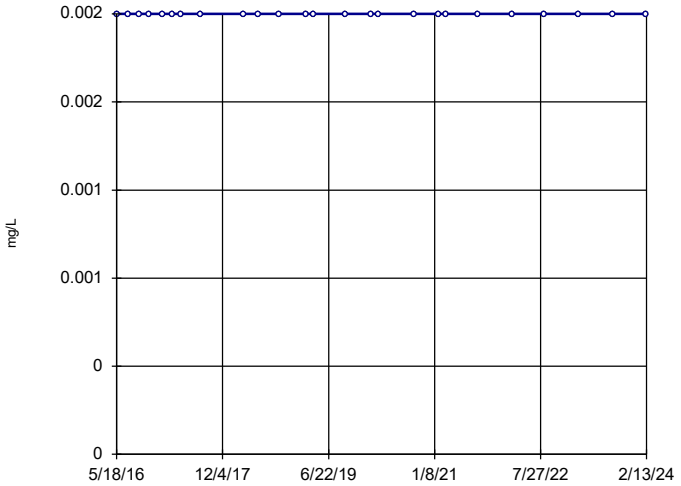
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-3 (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 85

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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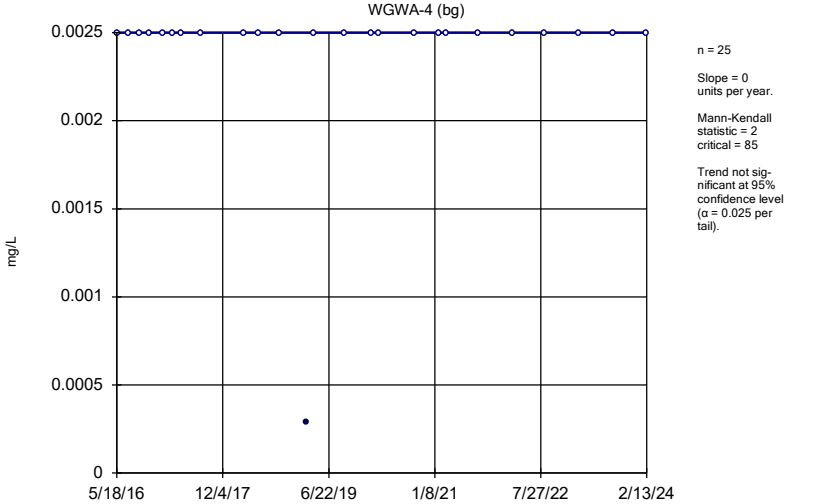
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-4 (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 2
critical = 85

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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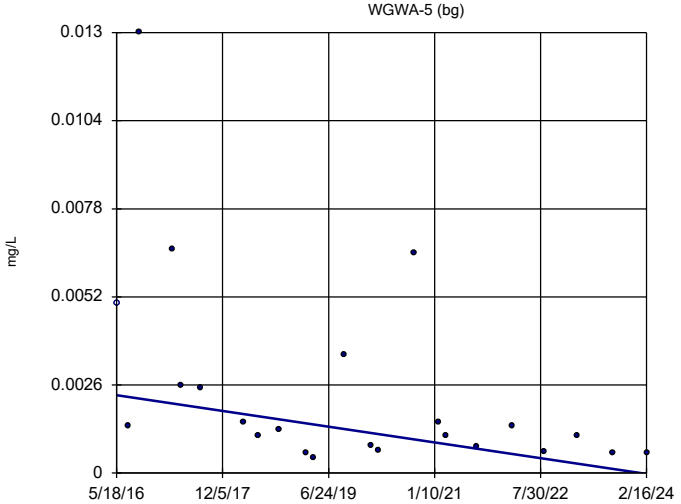
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-5 (bg)



n = 23

Slope = -0.0002998 units per year.

Mann-Kendall statistic = -119
critical = -76

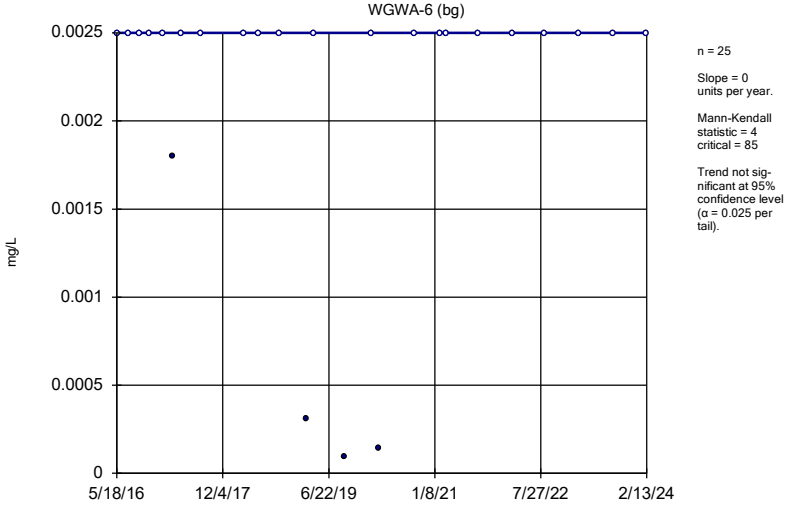
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-6 (bg)



n = 25

Slope = 0
units per year.

Mann-Kendall
statistic = 4
critical = 85

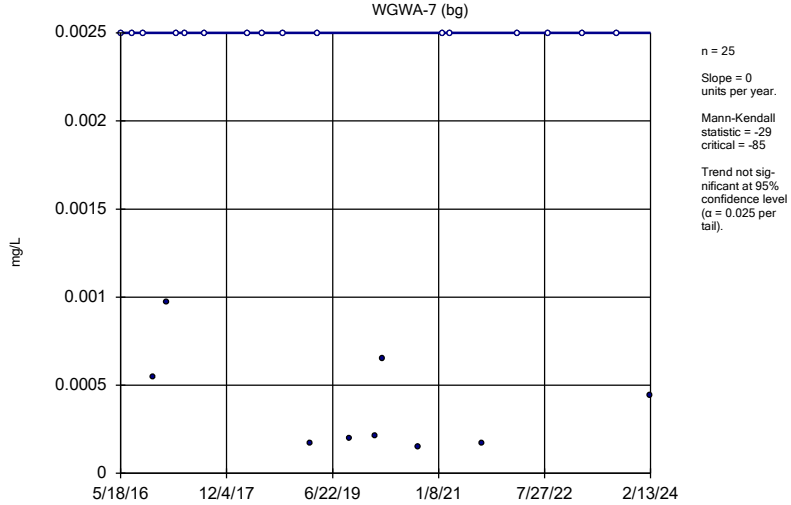
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-7 (bg)



n = 25

Slope = 0
units per year.

Mann-Kendall
statistic = -29
critical = -85

Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

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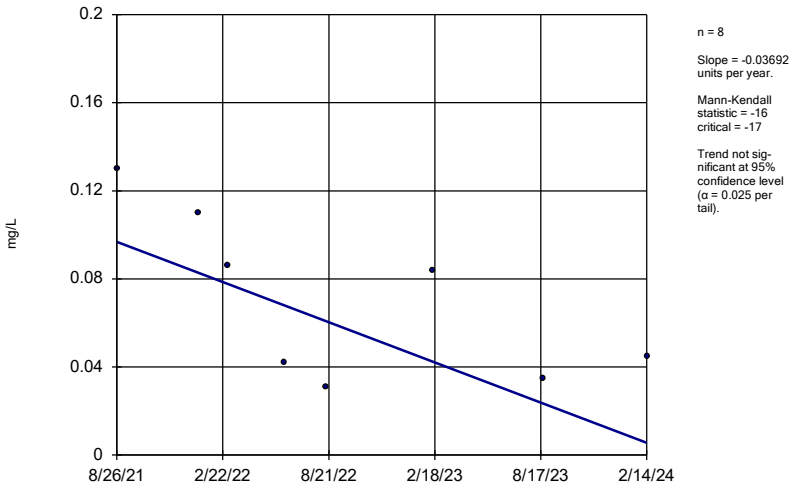
Sen's Slope Estimator

WGWC-24



n = 8

Slope = -0.03692
units per year.

Mann-Kendall
statistic = -16
critical = -17

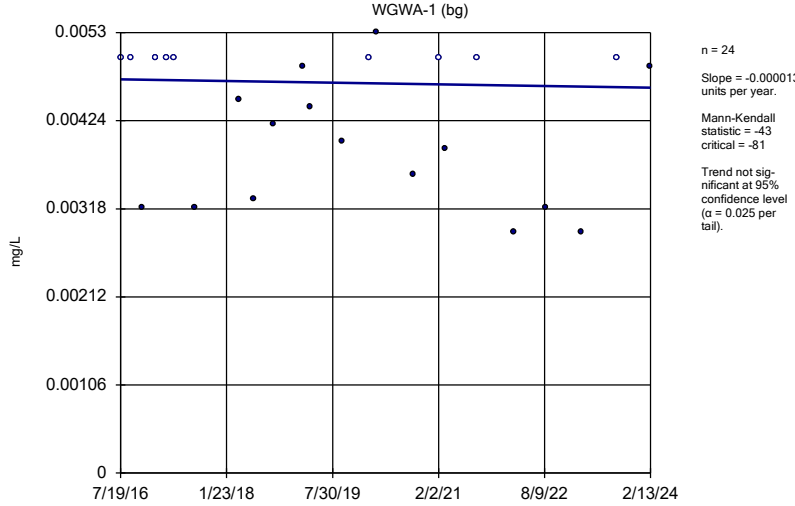
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-1 (bg)



n = 24

Slope = -0.00001334
units per year.

Mann-Kendall
statistic = -43
critical = -81

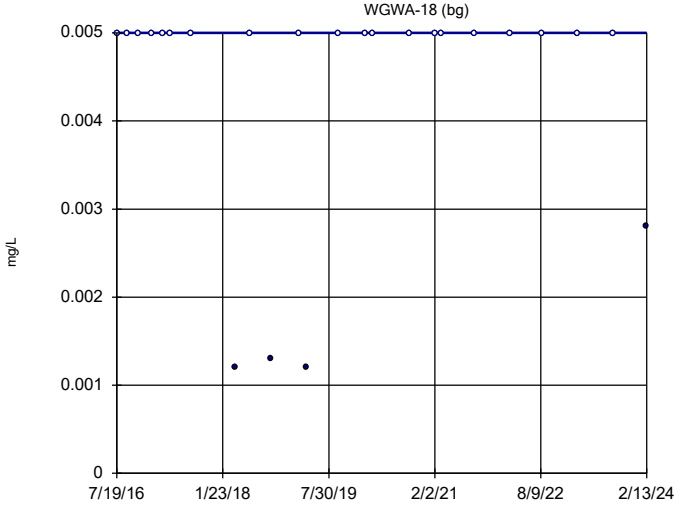
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Lithium Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-18 (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = -5
critical = -81

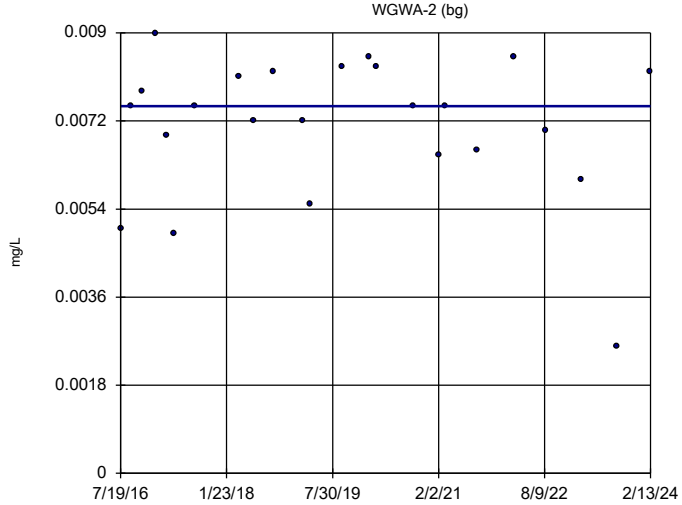
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWA-2 (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = -8
critical = -81

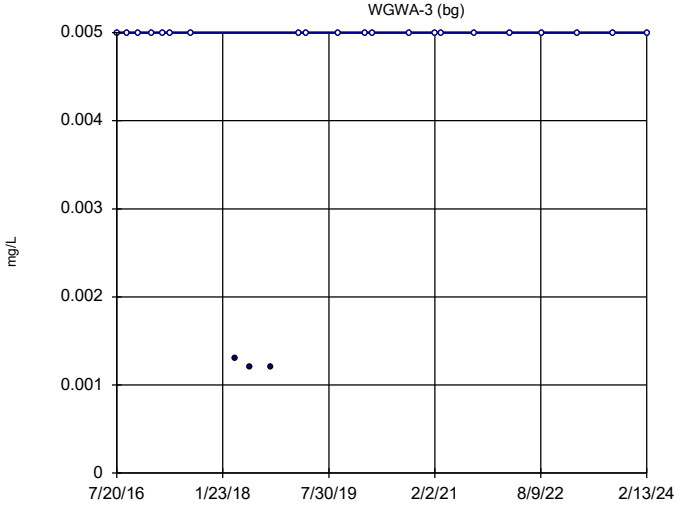
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-3 (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 19
critical = 81

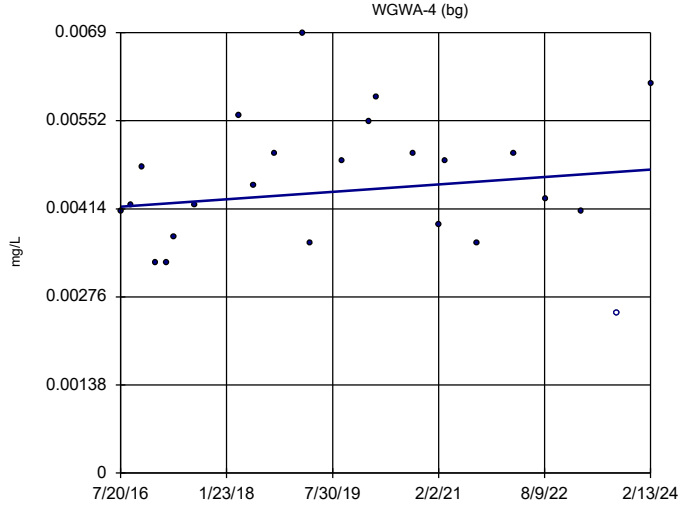
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-4 (bg)



n = 24

Slope = 0.00007688 units per year.

Mann-Kendall statistic = 34
critical = 81

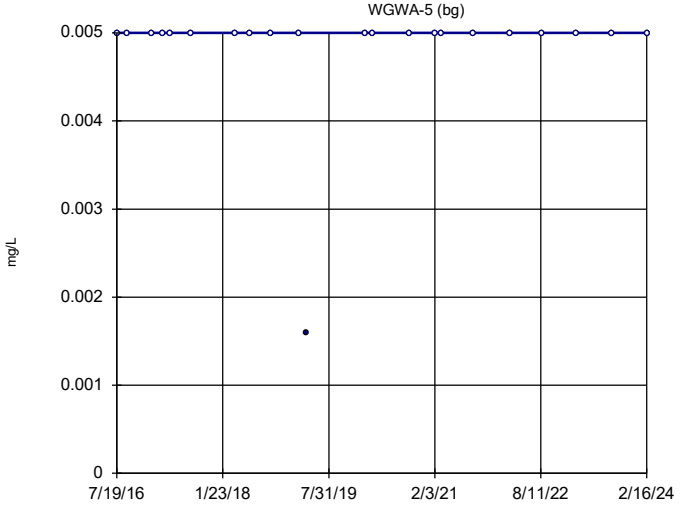
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-5 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 1
critical = 71

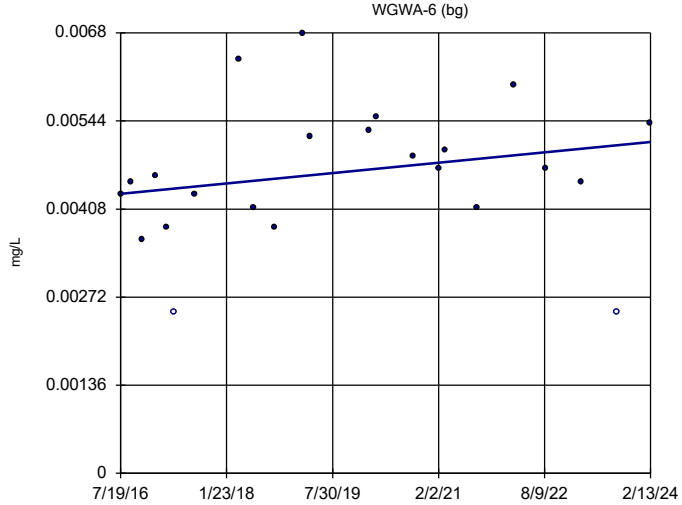
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-6 (bg)



n = 23

Slope = 0.0001055 units per year.

Mann-Kendall statistic = 43
critical = 76

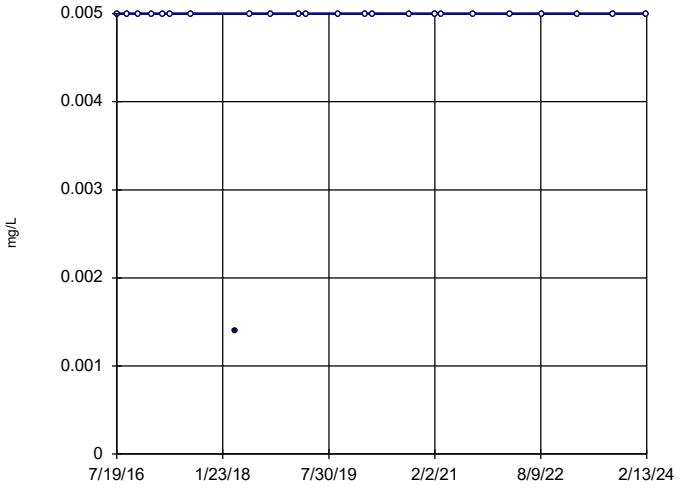
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

WGWA-7 (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 9
critical = 81

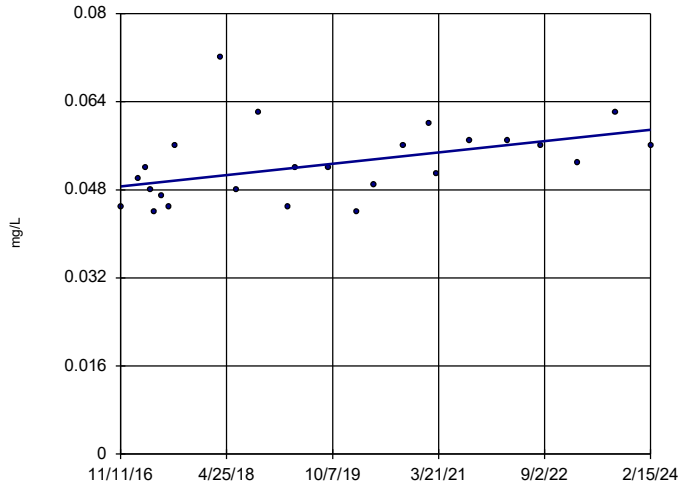
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWC-19



n = 25

Slope = 0.001415 units per year.

Mann-Kendall statistic = 104
critical = 85

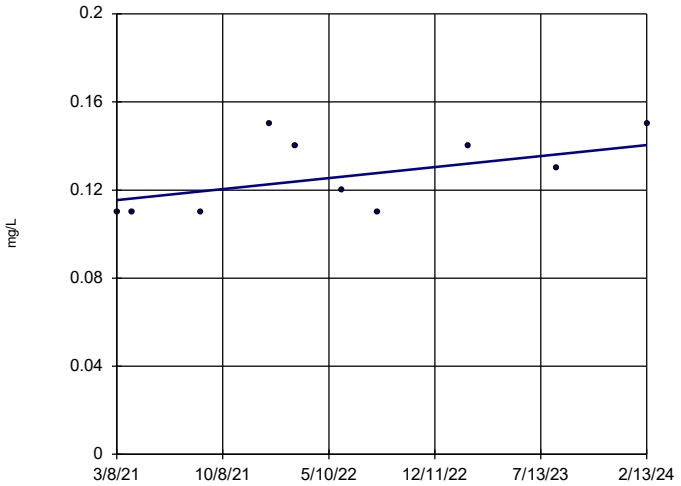
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests
Plant Wansley Client: Southern Company Data: Wansley Ash Pond

Sanitas™ v.10.0.15d Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

WGWC-20



n = 10

Slope = 0.008498 units per year.

Mann-Kendall statistic = 17
critical = 23

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/11/2024 5:04 PM View: Appendix IV Trend Tests

Plant Wansley Client: Southern Company Data: Wansley Ash Pond

APPENDIX E

Semiannual Remedy Selection and Design Progress Report

Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

SEMIANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT

PLANT WANSLEY ASH POND 1 (AP-1)

Prepared by

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW7327B

August 2024

Geosyntec
consultants

CERTIFICATION STATEMENT

This *Semiannual Remedy Selection and Design Progress 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 [CFR] 257 Subpart D), specifically § 257.97(a), the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10(6)(a) by a qualified groundwater scientist or engineer with Geosyntec Consultants, Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.

Report Prepared by:



Digitally signed by Lauren Fitzgerald
Date: 2024.08.29 09:10:18 -05'00'

_____ August 30, 2024

Lauren E. Fitzgerald — Date

Georgia Professional Engineer No. 048960

Geosyntec consultants

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LIST OF ACRONYMS AND ABBREVIATIONS

ACC	Atlantic Coast Consulting, Inc.
ACM	Assessment of Corrective Measures
AP	ash pond
ASD	alternate source demonstration
CCR	coal combustion residuals
CFR	Code of Federal Regulations
CSM	conceptual site model
Eurofins	Eurofins Environment Testing America
GA EPD	Georgia Environmental Protection Division
GCSM	geochemical conceptual site model
Georgia Power	Georgia Power Company
Geosyntec	Geosyntec Consultants, Inc.
GWPS	Groundwater Protection Standard
ISS	in-situ stabilization
mg/L	milligrams per liter
MNA	monitored natural attenuation
PRB	permeable reactive barrier
redox	oxidation-reduction
SSL	statistically significant level
USEPA	United States Environmental Protection Agency

1.0 INTRODUCTION

1.1 Purpose

This *Semiannual Remedy Selection and Design Progress Report* (the semiannual progress report) was prepared by Geosyntec Consultants, Inc. (Geosyntec) for Georgia Power Company (Georgia Power) Plant Wansley Ash Pond 1 (AP-1 or Site) in accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (CCR Rule) (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically 40 CFR § 257.97(a), and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10(6)(a) (State CCR Rule). This semiannual progress report describes the progress made since the issuance of the prior semiannual progress report in January 2024 in selecting and designing a remedy. Potentially applicable groundwater corrective measures were previously described in the *Assessment of Corrective Measures Report – Plant Wansley Ash Pond 1 (AP-1)* (Geosyntec, 2023a) (ACM Report).

The purpose of the ACM Report (and subsequent semiannual progress reports) is to document the process of evaluating and selecting corrective measure(s) to improve groundwater quality at the Site. This process is typically iterative and may be composed of multiple steps to analyze the effectiveness of corrective measures. Once potential corrective measures are identified, they are further evaluated using the criteria outlined in § 257.96(c) and Rule 391-3-4-.10(6)(a). The selected corrective measure must meet the additional protection criteria outlined in § 257.97 and corresponding Rule 391-3-4-.10(6)(a). Pursuant to § 257.97(a) and Rule 391-3-4-.10(6)(a), semiannual progress reports have been regularly submitted to document the efforts of evaluating and progressing toward selecting a groundwater corrective measure (Geosyntec, 2024).

1.2 Site Background and Overview of AP-1 Pond Closure

Plant Wansley (**Figure 1**) is a former electric generating facility owned and operated by Georgia Power. Constructed in the early 1970s, the Plant operated one 343-acre CCR pond identified as AP-1 for water treatment and disposal of CCR from electrical generation operations. AP-1 began receiving process water containing fly ash and bottom ash in 1976. In 2008, two temporary gypsum storage cells were constructed on top of the CCR delta in AP-1, adjacent to the Separator Dike (**Figure 2**).

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. In this plan, Georgia Power has elected to close Plant Wansley AP-1 by removal of the CCR material in accordance with § 257.102 and corresponding State Rule 391-3-4-.10(7)(b). Removed CCR will be consolidated in the onsite existing landfill. The closure of AP-1 in this manner provides a source control measure that reduces the potential for migration of CCR constituents to groundwater.

1.3 Regulatory Program Status and Nature and Extent

Pursuant to the CCR Rule, CCR compliance groundwater monitoring-related activities have been performed for AP-1 since 2016. Georgia Power initiated an assessment monitoring program for groundwater at AP-1 in January 2018, after identifying statistically significant increases (SSI) of Appendix III constituents. Statistical analyses of the 2018 assessment monitoring data identified a statistically significant level (SSL) of lithium in detection monitoring wells WGWC-8, WGWC-9, WGWC-10, and WGWC-19 in excess of the associated federal and/or state groundwater protection standard (GWPS)[1]. Statistical analyses of groundwater data obtained since March 2021 have identified SSLs of beryllium and lithium in WGWC-20, and statistical analyses of groundwater data since February 2023 have identified SSLs of beryllium and cobalt in WGWC-24.

In accordance with § 257.95(g)(3), Georgia Power prepared an alternate source demonstration (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 in November 2020 (Geosyntec, 2020), with a revised ASD Addendum subsequently submitted to GA EPD in February 2021 (Geosyntec, 2021). The ASD Addendum presents supplemental data collected since submittal of the 2019 ASD, which provide additional lines of evidence to demonstrate that the SSLs of lithium identified at AP-1 are associated with naturally occurring lithium within rock formations at the Site. The 2019 ASD and 2021 ASD Addendum are under review by GA EPD.

Pursuant to § 257.96, an ACM program was initiated for AP-1 in October 2022. The ACM Report for AP-1 was submitted to GA EPD on March 24, 2023 (Geosyntec, 2023a).

[1] On February 22, 2022, GA EPD adopted the federal GWPS for cobalt, lithium, lead, and molybdenum. The GWPS for cadmium is derived from the federally promulgated maximum contaminant level of 0.005 milligrams per liter.

In accordance with § 257.96(b), groundwater continues to be monitored at AP-1 under the assessment monitoring program while the ACM phase is implemented.

Since the ACM was initiated, assessment monitoring wells (formerly referred to as "delineation monitoring wells") have been installed and incorporated into the monitoring well network (formerly referred to as the "compliance monitoring well network") to delineate, both horizontally and vertically, the extent of the beryllium, cobalt, and lithium SSLs at AP-1. The monitoring well network is shown on **Figure 2**; **Table 1** provides well construction details.

Statistical analysis of the February 2024 semiannual assessment monitoring groundwater data identified SSLs of the following Appendix IV constituents at concentrations exceeding the applicable GWPS at AP-1:

- Beryllium: WGWC-20 and WGWC-24
- Cobalt: WGWC-24
- Lithium: WGWC-19 and WGWC-20

Details are provided in the *2024 Semiannual Groundwater Monitoring and Corrective Action Report* (2024 Semiannual Groundwater Report) to which this semiannual progress report is appended.

The groundwater data collected in February 2024 was used to generate the beryllium, cobalt, and lithium iso-concentration maps presented on **Figures 3** through **5**, respectively. Based on the groundwater data reported in the 2024 Semiannual Groundwater Report and supplementary data collected from PZ-31 in May 2024, the horizontal and vertical delineation status of identified beryllium, cobalt, and lithium SSLs is the following:

- WGWC-20 – beryllium and lithium are horizontally delineated downgradient by WGWC-27. Beryllium is vertically delineated by WGWC-28D, and vertical delineation of lithium is ongoing.
- WGWC-24 – groundwater flow direction at this location is inward toward AP-1 resulting in horizontal delineation of both beryllium and cobalt. Groundwater data collected from the newly installed PZ-31 in May 2024 and water levels collected from PZ-31 and surrounding wells in June 2024 supports the inward flow gradient

and completes horizontal delineation of beryllium and cobalt. Beryllium and cobalt are vertically delineated by PZ-26D.

In accordance with GA EPD guidance, data for monitoring wells with SSLs were further evaluated by Groundwater Stats Consulting using the Sen's Slope/Mann Kendall trend test (**Figures 6a** and **6b**). The full statistical evaluation is included as an appendix to the 2024 Semiannual Groundwater Report.

- No statistically significant trends (at 95% confidence) were identified for beryllium or lithium in WGWC-20 during the current reporting period.

- No statistically significant trends (at 95% confidence) were identified for beryllium or cobalt in WGWC-24 during the current reporting period.

In addition to the assessment monitoring program at the Site, Georgia Power conducted a human health and ecological risk evaluation to evaluate beryllium and lithium that are present at SSLs at WGWC-20. The evaluation provides one of many lines of evidence that will be evaluated and factored into the remedy selection process, which will be completed in accordance with § 257.97. Based on this risk evaluation, concentrations of beryllium and lithium detected in groundwater and surface water at AP-1 between November 2016 and October 2022 are not expected to pose a risk to human health or the environment (Geosyntec, 2023b). Data collected since October 2022 are generally consistent with data used in the risk evaluation; therefore, the conclusions provided in the *2023 Risk Evaluation Report* (Geosyntec, 2023b) are supported by current conditions. The risk evaluation will be updated by Georgia Power to include evaluation of beryllium and cobalt in WGWC-24 as part of the Remedy Selection Report.

Georgia Power will continue to adaptively manage the Site and use ongoing data collection to evaluate the need for additional wells at AP-1. Pursuant to § 257.96, groundwater in the vicinity of AP-1 continues to be monitored during the ACM phase in accordance with the established assessment monitoring program.

1.4 Corrective Measures Evaluated

As discussed in the ACM Report, the following corrective measures were initially considered to be potentially feasible for use at AP-1.

1. Geochemical Approaches (In-Situ Injection)
2. Hydraulic Containment (Pump and Treat)
3. In-Situ Solidification/Stabilization (ISS)

4. Monitored Natural Attenuation (MNA)
5. Permeable Reactive Barrier (PRB)
6. Phytoremediation
7. Subsurface Vertical Barrier Walls

A comparative screening of the corrective measures is provided in **Table 2,** with the exception of ISS. ISS, also known as deep soil mixing, is a method for solidifying soil, immobilizing constituents of interest in the solid matrix. ISS technology was not retained as it is less effective or not applicable to dilute concentrations of lithium and beryllium in groundwater beyond the unit boundary as compared to the other options being evaluated. As such, no detailed evaluation on ISS is provided in **Table 2**.

During this semiannual reporting period, PRB, phytoremediation, and subsurface vertical barrier wall corrective measures have been removed from consideration based on retainage evaluations applicable to WGWC-20 and WGWC-24 presented in **Table 2**.

Georgia Power proactively initiated adaptive site management as outlined in the ACM Report (Geosyntec, 2023a) to support the groundwater remedy selection process and address potential changes in site conditions (e.g., successful reduction of constituent concentrations or changing trends) as appropriate during ash pond closure. The adaptive site management approach will take existing site conditions, including natural attenuation mechanisms, into account.

Characterization activities to evaluate attenuation mechanisms at the Site include collection of data necessary to progressively evaluate the existing and long-term effectiveness of these processes in the aquifer and reduce uncertainty for decision making at each screening step as listed in the USEPA guidelines for MNA of inorganic constituents (USEPA, 1999, 2007, and 2015). The 1999 MNA guidance originally introduced a "tiered approach" with three tiers of site-specific information, or lines of evidence, to evaluate the appropriate use of MNA at certain sites (USEPA, 1999). In 2007, the USEPA issued MNA technical guidance specific to inorganic contaminants (USEPA, 2007) that contained four "tiers." The 2015 MNA guidance retains these four "tiers," but describes them as "phases" as described below (USEPA, 2015). This 2015 MNA document for inorganic contaminants expands on and is designed to be a companion to the 1999 and 2007 MNA guidance. The phases are briefly outlined below:

- Phase I: Demonstration that the groundwater plume is *not expanding*.

- Phase II: Determination that the *mechanism and rate* of the attenuation process are sufficient.

- Phase III: Determination that the *capacity* of the aquifer is sufficient to attenuate the mass of contaminant within the plume and the *stability* of the immobilized contaminant is sufficient to resist re-mobilization.

- Phase IV: Design of a *performance monitoring program* based on an understanding of the mechanism of the attenuation process, and establishment of contingency remedies tailored to site-specific characteristics.

Georgia Power will address Phase IV, as appropriate, during the development of the future corrective action monitoring plan, after the final remedy selection report.

The data collection approach and the data interpretation presented within this semiannual progress report are informed by this tiered MNA guidance. It is noted, however, that the characterization data collected under this approach are also used to refine the conceptual site model (CSM) and evaluate other retained potential corrective measures, namely, in-situ injection and hydraulic containment.

2.0 SUMMARY OF WORK COMPLETED

The following section summarizes the field investigations and data evaluations completed in support of the ACM program since the issuance of the prior semiannual progress report in January 2024 (Geosyntec, 2024). The routine monitoring events associated with the assessment monitoring program are discussed in the 2024 Semiannual Groundwater Report, to which this semiannual progress report is appended.

2.1 Field Activities

Additional field investigation activities since the issuance of the prior semiannual progress report include piezometer installation and sampling. These activities are detailed below.

2.1.1 Well and Piezometer Installation and Sampling

In March 2024, two piezometers (PZ-30 and PZ-31) were installed. PZ-30 was installed to replace PZ-11, which was abandoned to avoid interference with closure construction activities at the Site. PZ-31 was installed to provide additional data on groundwater flow characteristics in the vicinity of WGWC-24. In May 2024, groundwater samples were collected from PZ-31 for Appendix III parameters, beryllium, cobalt, and select geochemical parameters in support of the ACM program for AP-1.

All groundwater samples were sent to Eurofins Environment Testing America (Eurofins) under chain-of-custody procedures. Details of the sampling methods are provided in the 2024 Semiannual Groundwater Report; applicable results are discussed in Section 3.

2.2 Data Analysis Activities

In addition to the field activities discussed above, this section describes further data analysis including groundwater geochemical characterization.

2.2.1 Groundwater Analytical Analysis

The analytical groundwater data reported for the assessment monitoring event conducted in February 2024 along with supplemental data collected from PZ-31 in May 2024 were evaluated in support of characterizing the nature and extent of beryllium, cobalt, and lithium impacts downgradient of AP-1.

The laboratory results for the PZ-31 analyses are provided in **Appendix A**.

3.0 SUMMARY OF RESULTS

This section presents the results of the field and data analysis efforts outlined in Section 2.2.

3.1 Summary of Data Analysis Activities

3.1.1 Groundwater Geochemical Analysis

A summary of the groundwater analytical results is provided in **Table 3**. These results indicate attenuation of beryllium in the vicinity of WGWC-20 and WGWC-24 and cobalt in the vicinity of WGWC-24, both vertically and laterally, as delineation is complete. The delineation of lithium at WGWC-20 is ongoing.

To evaluate the geochemical signature of the detection and assessment wells and PZ-31 at AP-1, piper diagrams (**Figure 7**) were developed using data from February 2024 and May 2024. The results of this geochemical analysis indicate select downgradient wells including WGWC-20 and WGWC-28D appear to be influenced by the CCR signature, characterized as a high $CaSO_4$ water. Background and unimpacted wells plot opposite the CCR signature and generally cluster together.

4.0 UPDATED CONCEPTUAL SITE MODEL

As noted previously, the closure strategy for AP-1 will be closure by removal, thereby providing a source control measure that reduces potential for migration of CCR-related constituents to groundwater. Data collected since the previous semiannual progress report are consistent with and generally agree with the CSM described in the previous semiannual remedy selection and design progress report (Geosyntec, 2024).

- No statistically significant concentration trends were observed for beryllium, lithium, or cobalt in WGWC-20 and WGWC-24 when the February 2024 data were analyzed (**Figure 6a** and **6b**).

- The downgradient lateral extent of beryllium and lithium observed in WGWC-20 is delineated by assessment well WGWC-27 installed downgradient of AP-1. In addition, the vertical delineation of beryllium is achieved by WGWC-28D. Efforts to complete vertical delineation of lithium are ongoing.

- The groundwater flow direction at WGWC-24 is inward toward AP-1 (as supported by water level measurements in PZ-31 collected in June 2024). The inward flow direction along with the groundwater data collected from PZ-31 indicate that horizontal delineation of beryllium and cobalt is complete. In addition, vertical delineation of beryllium and cobalt is achieved by PZ-26D.

- Previous characterization of aquifer solids downgradient of AP-1 indicate the presence of iron oxides and clays could potentially provide surface sites and ion exchange capacities to attenuate inorganics.

- Previous sorption and desorption studies confirm that beryllium is sorbed onto aquifer materials. Limited desorption was only observed under ambient conditions suggesting favorable geochemical conditions could limit the potential for reversibility of sorption. Sorption of lithium was not observed.

- The laboratory studies presented to date are consistent with groundwater monitoring results that indicate variable attenuation of site-specific constituents is occurring downgradient of AP-1.

5.0 UPDATED EVALUATION OF CORRECTIVE MEASURES

Based on the data collected to date, the following potential corrective measures will be retained for further evaluation.

- Geochemical Injections:
    - Geochemical injections include the use of an injection well network, or other means of introducing reagents or air into the subsurface, to promote conditions suitable for the attenuation of beryllium and cobalt. A variety of pH and/or oxidation-reduction (redox)-altering technologies are available which can incorporate biological processes, chemical oxidants and reductants, and/or mechanical processes such as air sparging. These processes can be used to decrease the mobility of beryllium and cobalt. For example, beryllium and cobalt can be sorbed to iron and manganese oxides or co-precipitated with sulfide minerals. While some in-situ treatment techniques have been successful at the laboratory scale for lithium remediation, treatment of lithium via geochemical injection has yet to be demonstrated in the field. This approach would mainly be evaluated for use within a relatively small area around WGWC-20 to potentially address beryllium. Currently the groundwater flow direction observed at WGWC-24, where SSLs of beryllium and cobalt have been identified, is inward toward AP-1. Given that situation, the relevant applicability of this corrective measure needs to be considered for this location.

- Hydraulic Containment (Pump and Treat):
    - Hydraulic containment refers to the use of groundwater extraction to induce a hydraulic gradient for hydraulic capture or control the migration of impacted groundwater. This approach uses extraction wells or trenches to capture groundwater, which may subsequently require above-ground treatment and permitted discharge to a receiving water feature, reinjection into the groundwater, or reuse. Groundwater extraction and above-ground treatment is potentially a viable option within the alluvium and fractured bedrock zone as a supplemental or adaptive measure to treat groundwater near compliance wells if warranted by site conditions. However, it may not be suited or effective for extraction to treat groundwater near deeper

wells with slow aquifer recharge. A screening-level analysis indicates that hydraulic containment remains a viable corrective measure.

- Monitored Natural Attenuation:
    - MNA relies on natural attenuation processes to achieve site-specific remediation objectives within a reasonable time frame relative to more active methods. Under certain conditions (e.g., through sorption, mineral precipitation or redox reactions), MNA effectively reduces the dissolved concentrations of inorganic constituents in groundwater. The characterization of aquifer solids presented in this progress report suggest that the aquifer matrix has the potential for attenuation of the various constituents of interest at the Site. Therefore, MNA remains a viable corrective measure. MNA may either be a stand-alone corrective measure or be part of a combination of corrective measures to address groundwater impacts.

Continued groundwater monitoring and updates to the statistical analyses will further refine the CSM and allow for the continued evaluation of an appropriate groundwater corrective measure at the Site.

6.0 PLANNED ACTIVITIES AND ANTICIPATED SCHEDULE

The proposed closure by removal approach provides a source control measure that reduces the potential for migration of CCR constituents to groundwater. During the closure construction of AP-1, temporary changes in site conditions may occur that must be considered as part of remedy selection. Georgia Power proactively initiated adaptive site management as outlined in the ACM Report (Geosyntec, 2023a) to support the remedial strategy and address potential changes in site conditions as appropriate. The adaptive site management approach may be adjusted over the Site's life cycle as new site information and technologies become available. To this end, Georgia Power will continue its data collection efforts as necessary in support of efforts to refine the CSM and to continue assessment of the feasibility of the corrective measures retained for further evaluation. Once sufficient data are available to make technically sound decisions regarding the ability to implement one or more specific corrective measures, necessary steps will be taken to design and implement a remedy for AP-1 in accordance with § 257.98.

Supplementary data collection and evaluation activities proposed to be completed during the next semiannual reporting period include:

- Continue evaluation of beryllium, lithium, and cobalt in assessment monitoring wells.
- Continue the ongoing characterization of the nature and extent of lithium downgradient of WGWC-20, including characterization of additional solids and groundwater samples in the vicinity of WGWC-27.
- Development of a geochemical conceptual site model (GCSM) to evaluate the horizontal and vertical nature and extent of SSLs and identify the mechanisms of mobilization and potential attenuation.
- Assess the application of geochemical modeling to support remedy selection.

Georgia Power will continue to prepare semiannual progress reports to document AP-1 groundwater conditions, results associated with additional data collection, and the progress in selecting and designing a groundwater remedy in accordance with § 257.97(a). Georgia Power will include future semiannual progress reports in routine groundwater monitoring and corrective action reports. Record keeping, notifications, and publicly accessible internet site requirements for the semiannual progress reports will be

provided in accordance with § 257.105(h)(12), § 257.106(h)(9), and § 257.107(h)(9), respectively.

7.0 REFERENCES

Atlantic Coast Consulting, Inc (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.

Geosyntec, 2020. *Alternative Source Demonstration Addendum – Lithium – Plant Wansley Ash Pond 1 (AP-1)*. November 2020.

Geosyntec, 2021. *Alternative Source Demonstration Addendum - Lithium – Plant Wansley Ash Pond 1 (AP-1)*. February 2021.

Geosyntec, 2023a. *Assessment of Corrective Measures Report – Plant Wansley Ash Pond 1 (AP-1)*. March 2023.

Geosyntec, 2023b. *Risk Evaluation Report – Plant Wansley Ash Pond 1 (AP-1)*. 2023

Geosyntec, 2023c. *2022 Annual Groundwater Monitoring and Corrective Action Report - Plant Wansley Ash Pond 1 (AP-1)*. January 2023.

Geosyntec 2024. *Semiannual Remedy Selection and Design Progress Report - Plant Wansley Ash Pond 1 (AP-1)*. January 2024.

Gruebel, K. A., J. A. Davies and J. O. Leckie, 1988. *The Feasibility of Using Sequential Extraction Techniques for Arsenic and Selenium in Soils and Sediments*. Soil Sci. Soc. Am. J. 52: 390-397.

Hickey, M. G. and J.A. Kittrick, 1984. *Chemical Partitioning of Cadmium, Copper, Nickel, and Zinc in Soils and Sediments Containing High Levels of Heavy Metals*. J. Environ. Qual. 13: 372-376.

Kuo, S., P.E Heilman, and A.S. Baker, 1983. *Distribution and Forms of Copper, Zinc, Cadmium, Iron, and Manganese in Soils Near a Copper Smelter*. Soil Sci.135: 101-109.

Sposito, G., C. S. LeVesque, J. P. LeClaire and N. Senesi, 1984. *Methodologies to Predict the Mobility and Availability of Hazardous Metals in Sludge-Amended Soils*. California Water Resource Center. University of California, Davis, CA.

Tessier A., P.G.C. Campbell, and M. Bisson, 1979. *Sequential Extraction Procedures for the Speciation of Particulate Trace Metals*. Anal. Chem. 51(7): 844-851.

USEPA, 1999. *Use of Monitored Natural Attenuation at Superfund, RCRA Corrective Action, and Underground Storage Tank Sites*. Office of Solid Waste and Emergency Response; Directive 9200.4-17P. April 1999.

USEPA, 2007. *Monitored Natural Attenuation of Inorganic Contaminants in Ground Water. Volume 1 – Technical Basis for Assessment*. National Risk Management Laboratory. EPA/600/R-07/139. October 2007.

USEPA, 2015. *Use of Monitored Natural Attenuation for Inorganic Contaminants in Groundwater at Superfund Sites*. Office of Solid Waste and Emergency Response Directive 9283.1-36. August 2015.

USEPA, 2023. *Regional Screening Level (RSL) Chemical-specific Parameters Supporting Table*. United States Environmental Protection Agency. November 2023.

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)
Detection 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-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	12/04/2014	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	12/08/2014	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	11/04/2015	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-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
PZ-30	Piezometer	3/30/2024	1240592.30	2027321.68	812.43	814.80	787.83	777.83	37.47	10
PZ-31	Piezometer	3/22/2024	1239941.77	2024324.33	807.86	810.90	778.96	768.96	42.44	10
WAMW-1	Piezometer	09/16/2018	1241843.66	2028944.63	780.05	782.66	668.40	658.40	124.60	10
WAMW-2	Piezometer	09/14/2018	1241547.56	2028806.27	768.39	770.82	694.19	684.19	86.92	10
WGWA-5*	Upgradient	12/23/2014	1241997.94	2022368.85	899.28	902.15	888.88	878.88	23.66	10
WGWC-14	Piezometer	11/04/2015	1240621.86	2024584.92	806.87	809.50	764.87	754.87	54.63	10
WGWC-26D	Piezometer	9/26/2022	1243343.66	2029758.85	805.06	808.23	749.31	739.31	68.92	10

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)
Assessment Monitoring Well										
PZ-26D	Assessment	10/12/2020	1239919.45	2024146.35	802.31	804.93	735.23	725.23	80.10	10
WGWC-27	Assessment	9/27/2022	1243215.51	2029878.92	778.05	780.54	749.15	739.15	41.39	10
WGWC-28D	Assessment	8/11/2023	1243337.13	2029751.04	805.36	808.24	609.06	599.06	209.70	10

Notes:
ft = feet.
ft BTOC = feet below top of casing.
* = PZ-11 was abandoned in May 2024. WGWA-5 was reclassified from a detection monitoring well to a piezometer due to internal well damage.
(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. Survey of WGWC-26D and WGWC-27 was completed by GEL Solutions and certified on October 13, 2022. Survey of WGWC-28D was completed by GEL Solutions and certified September 5, 2023. Survey of PZ-30 and PZ-31 was completed by GEL Solutions and certified on July 1, 2024.
(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
Evaluation of Remedial Technologies
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Regulatory Citation for Criteria:		**40 CFR 257.96(C)(1)**		**40 CFR 257.96(C)(1)**	**40 CFR 257.96(C)(1)**
Corrective Measure	**Description**	**Performance**	**Reliability**	**Ease of Implementation**	**Potential Impacts**
Geochemical Approaches (In-Situ Injection)	Use of an injection well network, or other means of introducing reagents or air into the subsurface, to promote either anaerobic or aerobic attenuation of beryllium (Be), Cobalt (Co), and potentially lithium (Li), although further evaluation and testing would be needed to understand applicability to Li attenuation. The main attenuation mechanism for Be and Co is sorption, which is more dependent on pH than oxidation-reduction (redox) conditions. Under anaerobic conditions, Be and Co would be attenuated within sparingly soluble sulfide minerals. Under aerobic conditions, soluble iron or manganese and oxygen (either via air sparging or through a chemical oxidant) would be injected to promote the formation of iron or manganese (oxy-) hydroxides for subsequent sorption of Be and Co onto these mineral phases. If sufficient iron is present in groundwater, the use of air sparging alone may be considered to precipitate iron (oxy-) hydroxides for sorption. In-situ chemical oxidation (ISCO) or in-situ chemical reduction (ISCR) can be used to chemically alter the redox environment in the subsurface to affect the mobility of certain inorganic compounds, including Be and Co.	The effective immobilization of Be and Co at neutral to alkaline pH can be effective at achieving groundwater protection standards (GWPS) within a reasonable time frame. This immobilization has been shown at other sites under aerobic and anaerobic conditions; however, the anaerobic approach (involving the injection of an electron donor together with iron or manganese and sulfur) requires careful study and testing. While aerobic approaches are somewhat less complex, additional aquifer characterization is needed to further evaluate these options. Li is generally characterized as nonreactive, and the application of in-situ injection treatment for immobilization would need to be further investigated to evaluate efficacy.	Reliability dependent on permeability of the subsurface and the amount and distribution of secondary iron or manganese (oxy-) hydroxides (for aerobic approach), or electron donors and soluble iron or manganese and sulfur that can be consistently distributed (for anaerobic approach). Reliable technology if injected materials can be distributed throughout the impacted aquifer. Bench- and/or pilot-scale treatability testing programs are needed to understand the biogeochemical processes that would effectively reduce migration of Be, Co, and Li in groundwater.	Moderate. Installation of injection well network or other injection infrastructure would be required. Alternative installation approaches may be considered, such as along the downgradient edge of impacted groundwater, which would function similar to a PRB application. The potential for clogging of aquifer matrix and/or injection well infrastructure is an implementation consideration. Injectate distribution during injections (i.e., radius of influence) needs to be evaluated, especially given the shallow bedrock environment in the vicinity of WGWC-20. Current groundwater flow conditions are towards AP-1 in the vicinity of WGWC-24, therefore the relevant applicability of this corrective measure needs to be considered for this location.	Minimal impacts are expected if remedy works as designed, based on a thorough pre-design investigation, geochemical modeling, and bench/pilot study results. Redox-altering processes have the potential to mobilize naturally-occurring constituents as an unintended consequence if not properly studied and implemented.
Hydraulic Containment ("Pump and Treat")	Hydraulic containment refers to the use of groundwater extraction to induce a hydraulic gradient for hydraulic capture or control the migration of impacted groundwater. This approach uses extraction wells or trenches to capture groundwater, which may subsequently require above-ground treatment and permitted discharge to a receiving water feature, reinjection into the aquifer, or reuse (e.g., land application, CCR conditioning, etc.). It is applicable to a variable mix of inorganic constituents, including dissolved Be, Co, and Li.	Pump and treat (P&T) is effective at providing hydraulic control, but it is unclear whether full groundwater remediation can be achieved without further understanding attenuation mechanisms at the Site. At WGWC-20 and WGWC-24, implementation of the corrective measure is contingent on completing additional assessment activities (i.e., high-resolution site characterization, pump tests, flow modeling, and capture zone analysis). This is needed to refine the constituent distribution in the subsurface to target specific flow zones for pumping for improved mass recovery efficiency/effectiveness and to further evaluate the potential remedy performance. Current groundwater flow conditions are towards AP-1 in the vicinity of WGWC-24, therefore the relevant applicability of this corrective measure needs to be considered for this location.	Generally reliable for hydraulic containment, but uncertainty exists whether groundwater remediation goals can be achieved within a reasonable time frame without further understanding attenuation mechanisms.	Moderate. Proven approach for hydraulic control, and supplemental installation of extraction wells/trenches is fairly straightforward. The extracted groundwater may potentially require an above-ground treatment system, although one may be available as a result of closure activities. A variety of sorption and precipitation approaches exist for ex-situ treatment of Be and Co, while this would need to be further evaluated for Li. Operation and maintenance (O&M) requirements are expected to include upkeep of infrastructure components (pumps, pipes, tanks, instrumentation and controls, above-ground treatment system) and handling of treatment residuals. Current groundwater flow conditions are towards AP-1 in the vicinity of WGWC-24, therefore the relevant applicability of this corrective measure needs to be considered for this location.	Moderate. The main potential impacts are related to the presence and operation of an on-site above-ground water treatment facility and related infrastructure to convey and treat extracted groundwater. Pumping activity may unintentionally alter the geochemistry within the hydraulic capture zone.
Monitored Natural Attenuation (MNA)	MNA relies on natural attenuation processes to achieve site-specific remediation objectives within a reasonable time frame relative to more active methods. Under certain conditions (e.g., through sorption, mineral precipitation or oxidation-reduction reactions), MNA effectively reduces the dissolved concentrations of inorganic constituents in groundwater. Attenuation mechanisms for inorganic constituents at CCR sites, including Be and Li at WGWC-20 and Be and Co at WGWC-24, are either physical (e.g., dilution, dispersion, flushing, and related processes) or chemical (sorption or oxidation reduction reactions). Chemical attenuation processes include precipitation and sorption reactions such as adsorption on the surfaces of soil minerals, absorption into the matrix of soil minerals, or partitioning into organic matter. Further, redox reactions, via abiotic or biotic processes, can transform the valence states of some inorganic constituents to less soluble and thus less mobile forms. For Be and Co, the main attenuation processes include sorption to iron and manganese oxides and for Li, physical attenuation. Further evaluation of chemical attenuation mechanisms for Li would need to be completed.	Physical and chemical MNA mechanisms for Be, Co, and Li, including dilution, dispersion, sorption, and oxidation reduction reactions, can be effective at achieving GWPS within a reasonable time frame. Attenuation processes for Be, Co, and Li are already occurring at the site as evidenced by data from the assessment wells associated with WGWC-20 and WGWC-24. Source control will improve the mass balance such that the buffer capacity of the aquifer is unlikely to be exhausted. The attenuation processes already at work for Be and Li at WGWC-20 and Be and Co at WGWC-24 will further enhance the effectiveness of MNA.	Reliable as long as the aquifer conditions that result in Be, Co, and Li attenuation remain favorable (and/or are being enhanced) and sufficient attenuation capacity is present. MNA is reliable and can either be used as a stand-alone corrective measure for groundwater impacted by dissolved Be and Co, or in combination with a second technology for Be, Co, or Li.	Reasonably implementable with respect to infrastructure, but moderate to complex with respect to documentation. Proven approach, but additional data are needed to show that the existing attenuation capacity is sufficient to meet site objectives within a reasonable timeframe. A monitoring well network already exists to implement future groundwater monitoring efforts.	None. MNA relies on the natural processes active in the aquifer matrix to reduce constituent concentrations without disturbing the surface or the subsurface.
Permeable Reactive Barrier	Permeable reactive barrier (PRB) technology typically involves the installation of a permeable subsurface wall constructed with reactive media for the removal of constituents as groundwater passes through. The effectiveness of a PRB on the removal of Be and Li is relatively unknown. Further research and testing are required to see if Be and Li could be attenuated by a PRB. Either ZVI- Carbon matrix or solid carbon (bio-barrier) are most likely viable for the removal of Co. The carbon could be composed of peat moss, mulch or another carbon source. Exact placement of the PRB is contingent on finalization of the nature and extent characterization and subsurface geologic considerations. PRBs can also be constructed as “funnel and gate” systems, where a barrier wall directs groundwater to a smaller “treatment gate” filled with reactive media.	The PRB approach would be expected to achieve GWPS for Be, Co, and Li as impacted groundwater passes through the reactive barrier, if an appropriate reactive barrier can be identified in further evaluations. Additional testing is required to select the appropriate sorptive media mix that will not result in generation of unwanted byproducts and be applicable for Be and Li, ideally in concurrence with Co.	Reliable groundwater corrective measure, but loss of reactivity over time may require re-installation depending on the duration of the remedy. Additional data collection, including conducting a bench and/or pilot study, is needed to better characterize current attenuation mechanisms and/or select the appropriate reactive media mix for a PRB wall.	Difficult. Trenching at depth through bedrock (up to 40 feet) would be required to install a mix of reactive materials in the subsurface. Placement of reactive material in bedrock fracture zones to capture groundwater would be a complex construction method. Once installed, treatment will be passive and O&M requirements are minimal if replacement of the PRB is not necessary.	Minimal impacts are expected following the construction of the remedy. However, certain PRB methods have the potential to create anaerobic conditions downgradient of the PRB wall that may mobilize redox-sensitive naturally-occurring constituents. These conditions need to be carefully monitored. Short-term impacts during the construction of the remedy can be mitigated through appropriate planning and health and safety measures.
Phytoremediation / *TreeWells*	Phytoremediation uses trees and other plants to degrade or immobilize constituents or achieve hydraulic control without the need for an above-ground water treatment system and infrastructure. Within the context of AP-1, this corrective measure would likely use an engineered (proprietary) TreeWell phytoremediation system along the point of compliance or downgradient edge of the impacted groundwater for hydraulic control. The system promotes root development to the targeted groundwater zone (depth), allowing for hydraulic control of impacted groundwater. In addition, immobilization of Be, Co, and Li within the root zone as well as incidental uptake of dissolved Be, Co, and Li with groundwater is expected to occur concurrent with hydraulic control	Once established (typically at the end of the third growing season), a TreeWell system is effective for providing hydraulic containment of groundwater, and potential reduction of Be, Co, and Li concentrations through immobilization and/or uptake and sequestration in the tree biomass; however, the main purpose is to provide hydraulic control. Additional aquifer testing and/or groundwater flow modeling would be needed to confirm the suitability of this technology in the shallow bedrock and variable lithologic subsurface at WGWC-20 and WGWC-24.	Engineered phytoremediation is a proven technology where hydrogeologic factors are taken into account (e.g., hydraulic conductivity, flow velocity, depth to impacted groundwater zone, etc.). This is considered an active remedial approach through the use of trees as the "pumps" driving the system. Careful design will be needed to select the proper species, which will include consideration of groundwater chemistry, plant uptake of constituents, the nature of the subsurface, and groundwater flow modeling to evaluate the required number and placement of TreeWell units.	Reasonably implementable to moderate. Engineered approach has been proven effective, and specific depth zones can be targeted. Trees are installed as "tree wells" in a large diameter boring to get the roots deep enough to intercept impacted groundwater flow paths. Area must be clear of above and below-ground structures (i.e., power lines). The system, once established (approximately three growing seasons), is a self-maintaining, sustainable remedial system that has no external energy requirements and little maintenance (i.e., efforts normally associated with landscaping).	Minimal impacts are expected. In fact, there are several positive impacts expected, including enhanced aesthetics, wildlife habitat, and limited energy consumption.
Subsurface Vertical Barrier Walls	This approach involves placing a barrier to groundwater flow in the subsurface, frequently around a source area, to prevent future migration of dissolved constituents in groundwater from beneath the source to downgradient areas. In general, barrier walls are designed to provide containment; localized treatment achieved through the sorption or chemical precipitation reactions from construction of the walls are incidental to the design objective. A variety of barrier materials can be used, including cement and/or bentonite slurries, geomembrane composite materials, or driven materials such as steel or vinyl sheet pile. Groundwater extraction from upgradient of the barrier may be required to avoid groundwater mounding behind the barrier. A barrier wall might be used in conjunction with a “funnel and gate” system for a PRB rather than a stand-alone technology. Barrier walls can also be used in downgradient applications.	Barrier walls are a proven technology for seepage control and/or groundwater cutoff at impoundments. Slurry walls can be installed up to approximately 90 ft below ground surface (bgs), and groundwater impacts at the site are observed at depths less than 40 ft bgs. Within the context of WGWC-20, groundwater could either be directed to “treatment gates” for passive treatment (in a PRB) or migration of impacted groundwater could be minimized via barrier wall installation. The inward groundwater flow condition at WGWC-24 may not necessitate corrective action at this time. Additional subsurface investigations, aquifer testing, and compatibility testing with site-specific groundwater will be needed to assess applicability in the shallow bedrock subsurface environment.	Generally reliable as a barrier to groundwater flow; however, treatment of downgradient groundwater is typically not the primary objective.	Moderate to difficult. Trenching will be required to fill in the various slurry mixes; alternatively, sheet pile installations can be accomplished without excavation of trenches. The application of barrier walls is limited by the depth of installation and subsurface geology, which will be a consideration at AP-1. Installation methods and materials are readily available. Once installed, above-ground infrastructure to pump and treat groundwater may be required. O&M requirements are expected to include upkeep of infrastructure components (pumps, pipes, tanks, instrumentation and controls, above-ground treatment system) and handling of treatment residuals.	Minimal impacts are expected following the construction of the remedy. Short-term impacts during the construction of the remedy can be mitigated through appropriate planning and health and safety measures. Changes to groundwater flow patterns due to installation of the barrier wall are expected, which can affect other aspects of groundwater corrective action. Pumping activity may unintentionally alter the geochemistry within the hydraulic capture zone that may result in the mobilization of other constituents that may require treatment.

Table 2
Evaluation of Remedial Technologies
Plant Wansley AP-1, Heard and Carroll Counties, Georgia

Regulatory Citation for Criteria:	40 CFR 257.96(C)(2)	40 CFR 257.96(C)(3)			
Corrective Measure	**Time Requirement to Begin/Complete**	**Institutional Requirements**	**Other Env or Public Health Requirements**	**Relative Costs**	**Evaluation of Retainage**
Geochemical Approaches (In-Situ Injection)	Installation of the injection network can be accomplished relatively quickly (1 to 2 months). However, a thorough pre-design investigation, geochemical modeling and/or bench- and/or pilot-testing will be required to obtain design parameters prior to design and construction of the corrective measure, which may take up to 24 months. Once installed, the time required to achieve GWPS within the treatment area may be relatively quick but depends on the attenuation process kinetics of each targeted constituent. The time for complete distribution of the injected materials throughout the treatment area is also variable.	No institutional requirements are expected at this time.	Based on the results of the Risk Evaluation Report (Appendix A of the ACM Report), SSL-related constituents (Li and Be) evaluated from AP-1 are not expected to pose a risk to human health and the environment; Co will be added t a revised version of the Risk Evaluation as part of the Remedy Selection Report. Georgia Power will continue to proactively evaluate the data and update this evaluation, if necessary. Based on downgradient sampling results, there currently are no complete exposure pathways for potential receptors downgradient of WGWC-20; a risk evaluation in vicinity of WGWC-24 is pending. Potential for mobilization of redox-sensitive constituents exists during implementation of an anerobic attenuation approach.	Medium to high (depending on expanse of injection network required, injection dispersion requirements in bedrock, and injectate volume required per derived design parameters).	Remedial approach retained as a targeted injection layout may result in decrease concentrations of Be and Co in groundwater below the GWPS; may be used as a stand-alone corrective measure or in conjunction with other potential groundwater corrective measures. Further evaluation would be required to understand applicability and efficacy to treat Li.
Hydraulic Containment ("Pump and Treat")	Installation of extraction wells and/or trenches can be accomplished relatively quickly (1 to 2 months). However, additional aquifer testing, system design and installation, and permit approval may be required, which may take up to 24 months. The initiation of the approach would be contingent on the start-up of the wastewater treatment infrastructure (if being utilized). Hydraulic containment can be achieved relatively quickly after startup of the extraction system, but uncertainty exists with respect to the time to achieve GWPS without additional data collection to better understand attenuation mechanisms for Be, Co, and Li.	Depending on the effluent management strategy, modifications to the existing NPDES permit may be required, or obtaining a UIC permit will be needed if groundwater reinjection is chosen.	Based on the results of the Risk Evaluation Report (Appendix A of the ACM Report), SSL-related constituents (Li and Be) evaluated from AP-1 are not expected to pose a risk to human health and the environment; Co will be added t a revised version of the Risk Evaluation as part of the Remedy Selection Report. Georgia Power will continue to proactively evaluate the data and update this evaluation, if necessary. Based on downgradient sampling results, there currently are no complete exposure pathways for potential receptors downgradient of WGWC-20; a risk evaluation in vicinity of WGWC-24 is pending. Above-ground treatment components may need to be present for an extended period of time, generating residuals requiring management and disposal.	Medium to high (depending on remedy duration, complexity of above-ground treatment system, and volume of water processed).	P&T is a potentially viable corrective measure for Be, Co, and Li in groundwater and will be retained for further evaluation.
Monitored Natural Attenuation (MNA)	The infrastructure to initiate MNA is already in place. Demonstrating attenuatio mechanisms and capacity can be time-consuming and can take up to 24 months. MNA is expected to be successful within a reasonable time frame following pon closure. Engineering measures will be implemented to minimize potential impacts to the subsurface during closure activities and routine groundwater monitoring will be used to verify that groundwater impacts remain stable or decrease over time.	No institutional requirements are expected at this time.	Based on the results of the Risk Evaluation Report (Appendix A of the ACM Report), SSL-related constituents (Li and Be) evaluated from AP-1 are not expected to pose a risk to human health and the environment; Co will be added t a revised version of the Risk Evaluation as part of the Remedy Selection Report. Georgia Power will continue to proactively evaluate the data and update this evaluation, if necessary. Based on downgradient sampling results, there currently are no complete exposure pathways for potential receptors downgradient of WGWC-20; a risk evaluation in vicinity of WGWC-24 is pending. Little to no physical disruption to remediation areas and no adverse construction related impacts are expected on the surrounding community.	Low. Minimal cost requirements.	Under current conditions, attenuation processes for Be, Co, and Li are already occurring as evidenced by groundwater data from assessment wells associated with WGWC-20 and WGWC-24. Therefore, MNA is a potentially viable corrective measure and will be retained for further evaluation, either as a stand-alone corrective measure or in conjunction with other potential groundwater corrective measures.
Permeable Reactive Barrier	Installation of a PRB can be accomplished relatively quickly (6 to 12 months), depending on the final location and configuration. WGWC-20 and WGWC-24 would require installation of two systems for use in both locations due to distance, however current groundwater flow for WGWC-24 is inward toward AP-1 and may not necessitate corrective action at this time. Bench- and/or pilot-testing would be required to obtain design parameters prior to design and construction of the remedy, which may take up to 24 months. Once installed, the time to achieve GWPS downgradient of the PRB is anticipated to be relatively quick.	No institutional requirements are expected at this time.	Based on the results of the Risk Evaluation Report (Appendix A of the ACM Report), SSL-related constituents (Li and Be) evaluated from AP-1 are not expected to pose a risk to human health and the environment; Co will be added t a revised version of the Risk Evaluation as part of the Remedy Selection Report. Georgia Power will continue to proactively evaluate the data and update this evaluation, if necessary. Based on downgradient sampling results, there currently are no complete exposure pathways for potential receptors downgradient of WGWC-20; a risk evaluation in vicinity of WGWC-24 is pending. Following installation, the remedy is passive (but may require replacement). However, certain treatment media (such as ZVI) have the potential to mobilize naturally-occurring constituents downgradient of the PRB.	High (for installation) - minimal O&M requirements if replacement is not necessary.	Due to limited space and significant infrastructure downgradient of WGWC-20 and the direction of groundwater flow at WGWC-24 inward to AP-1, PRB has not been retained for further consideration.
Phytoremediation / *TreeWells*	The design phase will require groundwater modeling for optimal placement of the TreeWell units, which may take up to 6 months. Additional aquifer testing and design will likely be required, which may take up to 24 months. Depending on the number of required units, the installation effort is expected to last several weeks. Hydraulic capture/control is expected approximately three years after planting and system performance is expected to further improve over time.	No institutional requirements are expected at this time.	Based on the results of the Risk Evaluation Report (Appendix A of the ACM Report), SSL-related constituents (Li and Be) evaluated from AP-1 are not expected to pose a risk to human health and the environment; Co will be added t a revised version of the Risk Evaluation as part of the Remedy Selection Report. Georgia Power will continue to proactively evaluate the data and update this evaluation, if necessary. Based on downgradient sampling results, there currently are no complete exposure pathways for potential receptors downgradient of WGWC-20; a risk evaluation in vicinity of WGWC-24 is pending. Following installation, the remedy is passive and does not require external energy.	Medium to high (for installation) - minimal O&M requirements.	Given groundwater depth and SSL exceedance depth at the Site, phytoremediation is likely not a viable groundwater corrective measure. In addition, the fractured shallow bedrock, variable subsurface lithology, and significant infrastructure in the vicinity will make plant selection and planting layout difficult.
Subsurface Vertical Barrier Walls	Installation of a barrier wall can be accomplished relatively quickly (6 to 12 months), depending on the final location and configuration. However, design and additional aquifer and compatibility testing will be required, which may take up to 24 months. Once installed, preventing migration of constituents dissolved in groundwater is anticipated to be relatively quick. Since this approach does not treat the downgradient area of impacted groundwater but prevents migration from a source area, it will likely have to be maintained long-term and coupled with other approaches.	No institutional requirements are expected at this time.	Based on the results of the Risk Evaluation Report (Appendix A of the ACM Report), SSL-related constituents (Li and Be) evaluated from AP-1 are not expected to pose a risk to human health and the environment; Co will be added t a revised version of the Risk Evaluation as part of the Remedy Selection Report. Georgia Power will continue to proactively evaluate the data and update this evaluation, if necessary. Based on downgradient sampling results, there currently are no complete exposure pathways for potential receptors downgradient of WGWC-20; a risk evaluation in vicinity of WGWC-24 is pending. Due to the need for groundwater extraction associated with barrier walls, above-ground treatment components may need to be present for an extended period of time, generating residuals requiring management and disposal.	High (depending on length and depth of wall, subsurface geologic consideration remedy duration and complexity of above-ground treatment system).	Due to limited space and significant infrastructure downgradient of WGWC-20 and the direction of groundwater flow at WGWC-24 inward to AP-1, subsurface vertical barrier walls have not been retained for further consideration.

Table 3
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-5*[4]	WGWA-6	WGWA-7	WGWA-18	WGWC-8
	Sample Date:	2/13/2024	2/13/2024	2/13/2024	2/13/2024	2/16/2024	2/16/2024	2/13/2024	2/13/2024	2/13/2024	2/13/2024
	Constituent [1,2]										
Appendix III	Boron	<0.022	<0.022	<0.022	<0.022	<0.022	< 0.022	<0.022	<0.022	<0.022	3.0
	Calcium	1.3	12	1.7	17	0.92	0.90	27	11	4.6	91
	Chloride	3.5	2.4	1.5	1.1	1.6	--	1.4	1.6	1.7	88
	Fluoride	<0.040	<0.040	<0.040	0.087 J	<0.20	--	0.070 J	<0.040	0.076 J	<0.40
	pH [3]	5.46	5.97	5.52	7.1	5.23	--	7.75	6.19	5.84	5.31
	Sulfate	<0.40	0.64 J	0.68 J	6.2	1.5	--	6.7	0.56 J	5.1	190
	TDS	36	140	34	110	34	--	120	51	43	620
Appendix IV	Antimony	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	< 0.00034	<0.00034	<0.00034	<0.00034	<0.00034
	Arsenic	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	< 0.00086	0.00098 J	0.00097 J	0.00093 J	0.0017
	Barium	0.047	0.025	0.014	0.0062 J	0.014	0.013	0.0076 J	0.0099 J	0.013	0.0014 J
	Beryllium	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	< 0.00020	<0.00020	<0.00020	<0.00020	0.0027
	Cadmium	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	< 0.000078	<0.000078	<0.000078	<0.000078	0.00041 J
	Chromium	<0.0012	<0.0012	0.0015 J	<0.0012	<0.0012	< 0.0012	<0.0012	0.049	<0.0012	<0.0012
	Cobalt	0.00064 J	0.00049 J	<0.00022	<0.00022	0.00059 J	0.00054 J	<0.00022	0.00044 J	0.00063 J	<0.00022
	Fluoride	<0.040	<0.040	<0.040	0.087 J	<0.20	--	0.070 J	<0.040	0.076 J	<0.40
	Lead	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	< 0.00021	<0.00021	<0.00021	<0.00021	<0.00021
	Lithium	0.0049 J	0.0082	<0.0020	0.0061	<0.0020	< 0.0020	0.0054	<0.0020	0.0028 J	0.012
	Mercury	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	< 0.000080	<0.000080	<0.000080	<0.000080	<0.000080
	Molybdenum	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	< 0.00086	<0.00086	0.0012 J	<0.00086	<0.00086
	Comb. Radium 226/228	0.208 U	0.0248 U	-0.146 U	2.21	0.558 U	--	10.8	-0.137 U	0.309 U	2.44
	Selenium	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	< 0.00099	<0.00099	<0.00099	<0.00099	0.0070
	Thallium	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	< 0.00026	<0.00026	<0.00026	<0.00026	<0.00026
Major Ions	Bicarbonate Alkalinity	<5.0	64	11	63	6.2	--	<5.0	37	16	<5.0
	Total Alkalinity	<5.0	64	11	63	6.2	--	<5.0	37	16	<5.0
	Iron	0.020 J	0.034 J	0.035 J	1.0	0.10	--	0.26	0.32	0.11	0.019 J
	Magnesium	1.1	4.4	1.0	2.5	0.60	--	2.1	0.63	1.1	22
	Manganese	0.0084	0.030	<0.0022	0.18	0.0051	--	0.14	0.090	0.079	0.012
	Potassium	1.2	2.6	1.3	2.8	1.1	--	3.1	1.6	2.2	9.2
	Sodium	3.2	9.4	2.7	7.3	1.2	--	5.4	2.6	3.4	35
	Sulfide	<0.81	<0.81	0.81	<0.83	<0.81	--	0.93	1.7	<0.81	<0.81

Notes:
-- = Parameter was not analyzed.
TDS = total dissolved solids
* = WGWA-5 was reclassified from a detection monitoring well to a piezometer due to internal well damage.
<= Indicates the parameter was not detected above the analytical method detection limit (MDL)
J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL)
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, alkalinity was analyzed by SM2320B, sulfide was analyzed by EPA Method 9034, and combined radium by EPA Methods 9315/9320.
(3) The pH value presented was recorded at the time of sample collection in the field.
(4) The sample was filtered at the time of sample collection in the field. The results reported for this sample are for dissolved metals.
(5) Reporting Limits were elevated for select parameters for PZ-31 due to low sample volume.

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

	Well ID:	WGWC-9	WGWC-10	WGWC-11	WGWC-12	WGWC-13	WGWC-14A	WGWC-14A	WGWC-15	WGWC-16	WGWC-17	WGWC-19
	Sample Date:	2/14/2024	2/15/2024	2/16/2024	2/14/2024	2/15/2024	2/15/2024	2/15/2024	2/15/2024	2/15/2024	2/15/2024	2/15/2024
	Constituent [1,2]											
Appendix III	Boron	0.56	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	0.74	0.027 J	<0.022
	Calcium	9.1	7.7	1.6	13	3.7	0.66	31	31	20	6.2	14
	Chloride	3.2	1.8	4.3	2.8	1.3	2.5	1.4	1.4	32	1.6	3.5
	Fluoride	0.73	<0.20	<0.20	0.044 J	0.21 J	<0.20	0.89	0.89	<0.20	<0.20	0.40
	pH [3]	6.13	6.41	5.6	6.67	6.3	5.18	7.88	7.88	5.31	6.16	6.87
	Sulfate	37	3.2	2.1	8.8	4.3	1.2	16	16	50	5.4	5.7
	TDS	150	53	31	85	84	31	130	130	150	79	100
Appendix IV	Antimony	0.0063	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034
	Arsenic	<0.00086	<0.00086	<0.00086	0.0010	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086
	Barium	<0.00089	0.034	0.042	0.017	0.037	0.027	0.031	0.031	0.045	0.011	0.0012 J
	Beryllium	0.00037 J	<0.00020	<0.00020	<0.00020	<0.00020	0.00026 J	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Cadmium	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078	<0.000078
	Chromium	0.0020	0.0036	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
	Cobalt	<0.00022	<0.00022	<0.00022	0.00045 J	<0.00022	0.0017 J	<0.00022	<0.00022	<0.00022	<0.00022	<0.00022
	Fluoride	0.73	<0.20	<0.20	0.044 J	0.21 J	<0.20	0.89	0.89	<0.20	<0.20	0.40
	Lead	<0.00021	0.00070 J	<0.00021	<0.00021	<0.00021	0.00029 J	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021
	Lithium	0.026	0.0088	<0.0020	0.0045 J	<0.0020	<0.0020	0.0055	0.0055	0.0032 J	0.0026 J	0.056
	Mercury	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080
	Molybdenum	0.0033 J	<0.00086	<0.00086	<0.00086	0.0012 J	<0.00086	0.0021 J	0.0021 J	<0.00086	0.0023 J	0.0014 J
	Comb. Radium 226/228	0.279 U	0.126 U	-0.00801 U	0.813	0.585	0.482 U	0.607	0.607	0.582	0.257 U	0.523
	Selenium	0.0022 J	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099
	Thallium	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026
Major Ions	Bicarbonate Alkalinity	37	34	12	48	33	12	100	100	10	48	93
	Total Alkalinity	37	34	12	48	33	12	100	100	10	48	93
	Iron	0.023 J	<0.012	<0.012	1.8	0.056	0.012 J	0.016 J	0.016 J	0.023 J	0.086	0.079
	Magnesium	2.4	1.7	1.2	2.8	0.51	0.67	4.9	4.9	6.4	3.5	10
	Manganese	0.013	0.015	0.0083	0.016	<0.0022	0.041	0.54	0.54	0.011	0.0078	0.013
	Potassium	1.4	1.9	1.3	2.1	1.7	1.7	1.6	1.6	2.5	1.7	1.5
	Sodium	21	3.6	3.1	5.6	9.3	3.6	9.0	9.0	9.8	8.4	7.9
	Sulfide	<0.81	<0.81	<0.89	<0.81	<0.86	<0.81	<0.89	<0.89	<0.81	<0.83	<0.83

Notes:
-- = Parameter was not analyzed.
TDS = total dissolved solids
* = WGWA-5 was reclassified from a detection monitoring well to a piezometer due to internal well damage.
<= Indicates the parameter was not detected above the analytical method detection limit (MDL)
J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL)
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(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, alkalinity was analyzed by SM2320B, sulfide was analyzed by EPA Method 9034, and combined radium by EPA Methods 9315/9320.
(3) The pH value presented was recorded at the time of sample collection in the field.
(4) The sample was filtered at the time of sample collection in the field. The results reported for this sample are for dissolved metals.
(5) Reporting Limits were elevated for select parameters for PZ-31 due to low sample volume.

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

	Well ID:	WGWC-20	WGWC-21	WGWC-22	WGWC-23	WGWC-24	WGWC-25	WGWC-27	WGWC-28D	PZ-26D	PZ-31[5]
	Sample Date:	2/13/2024	2/15/2024	2/14/2024	2/15/2024	2/14/2024	2/15/2024	2/15/2024	2/14/2024	2/15/2024	5/9/2024
	Constituent [1,2]										
Appendix III	Boron	5.6	0.14	0.33	<0.022	1.0	0.29	0.26	9.3	0.072 J	<0.022
	Calcium	210	73	21	2.5	24	29	22	390	15	4.0
	Chloride	230	59	4.1	3.5	22	12	29	520	14	4.9
	Fluoride	<1.0	2.2	0.23	<0.20	<0.20	<0.20	1.2	<2.0	0.29 J	<0.040
	pH [3]	5.34	6.7	5.84	5.62	4.72	6.24	6.23	6.47	6.48	5.22
	Sulfate	280	420	64	8.7	55	21	37	300	36	1.6
	TDS	1200	740	210	76	180	130	170	1700	160	<40
Appendix IV	Antimony	0.00044 J	<0.00034	0.00076 J	<0.00034	<0.00034	<0.00034	0.00056 J	<0.00034	<0.00034	--
	Arsenic	0.0010	<0.00086	0.0011	<0.00086	0.0012	0.00096 J	<0.00086	0.0022	<0.00086	--
	Barium	<0.00089	0.0064 J	0.041	0.0050 J	0.052	0.14	0.0040 J	0.017	0.021	--
	Beryllium	0.012	0.00021 J	0.00044 J	0.0013 J	0.0065	<0.00020	0.0012 J	0.0019 J	<0.00020	0.00026 J
	Cadmium	0.00042 J	<0.000078	0.00013 J	<0.000078	0.00023 J	<0.000078	<0.000078	<0.000078	<0.000078	--
	Chromium	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	--
	Cobalt	<0.00022	<0.00022	<0.00022	<0.00022	0.045	0.0062	0.0018 J	0.00064 J	0.0069	0.0071
	Fluoride	<1.0	2.2	0.23	<0.20	<0.20	<0.20	1.2	<2.0	0.29 J	--
	Lead	<0.00021	<0.00021	<0.00021	<0.00021	0.00037 J	<0.00021	<0.00021	0.00022 J	<0.00021	--
	Lithium	0.15	0.074	0.0028 J	0.0044 J	0.0044 J	0.0063	0.038	0.21	0.031	--
	Mercury	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	--
	Molybdenum	<0.00086	0.023	<0.00086	<0.00086	<0.00086	<0.00086	<0.00086	0.0094 J	0.0024 J	--
	Comb. Radium 226/228	1.06	1.30	5.46	0.232 U	0.674	0.672	5.82	13.3	1.06	--
	Selenium	0.0035 J	<0.00099	0.0041 J	0.0030 J	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099	--
	Thallium	<0.00026	<0.00026	<0.00026	<0.00026	0.00033 J	<0.00026	<0.00026	<0.00026	<0.00026	--
Major Ions	Bicarbonate Alkalinity	9.9	110	51	25	<5.0	94	33	43	61	37
	Total Alkalinity	9.9	110	51	25	<5.0	94	33	43	61	37
	Iron	<0.012	0.27	0.053	<0.012	0.012 J	4.0	0.87	2.7	1.5	0.16
	Magnesium	43	8.9	4.6	0.45 J	5.4	6.0	3.4	64	3.0	2.3
	Manganese	0.46	0.069	0.046	0.0032 J	1.6	1.1	0.37	0.71	0.13	0.62
	Potassium	6.3	3.3	12	2.3	7.5	6.3	2.0	24	1.8	2.2
	Sodium	47	190	21	13	9.1	7.7	15	77	26	3.3
	Sulfide	<0.81	0.99	<0.81	<0.86	<0.81	<0.86	1.2	0.88	<0.83	<0.81

Notes:
-- = Parameter was not analyzed.
TDS = total dissolved solids
* = WGWA-5 was reclassified from a detection monitoring well to a piezometer due to internal well damage.
<= Indicates the parameter was not detected above the analytical method detection limit (MDL)
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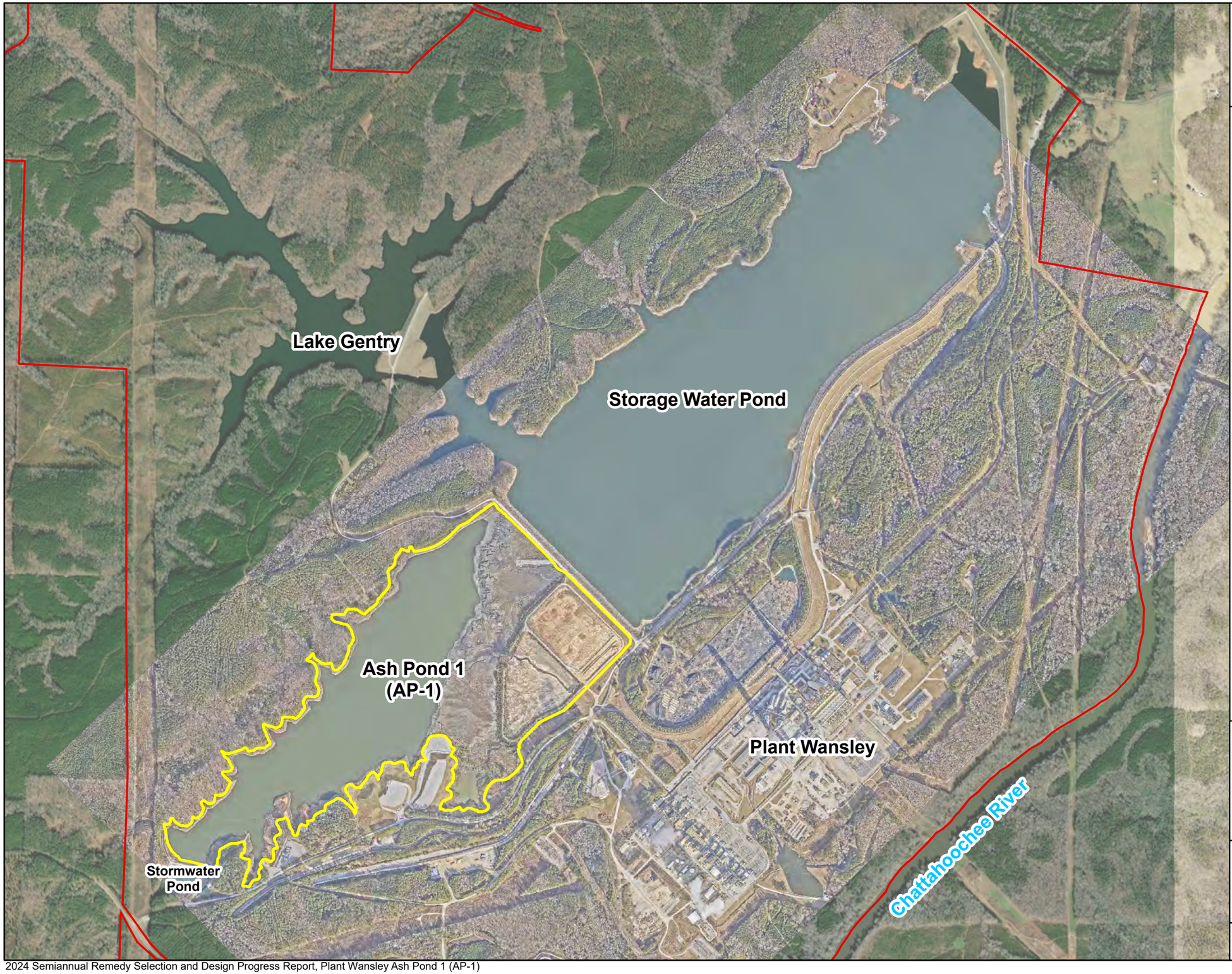
(2) Metals were analyzed by EPA Method 6020B and Method 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM 2540C, alkalinity was analyzed by SM2320B, sulfide was analyzed by EPA Method 9034, and combined radium by EPA Methods 9315/9320.
(3) The pH value presented was recorded at the time of sample collection in the field.
(4) The sample was filtered at the time of sample collection in the field. The results reported for this sample are for dissolved metals.
(5) Reporting Limits were elevated for select parameters for PZ-31 due to low sample volume.

FIGURES



N

Legend

Approximate Property Boundary

Approximate AP-1 Boundary



Notes:
1. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, January 30, 2024.
2. Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community.

0 700 1,400 2,800

SCALE IN FEET

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 2024

FIGURE 1



N

Legend

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Approximate AP-1 Boundary

Notes:
1. Assessment monitoring wells installed October 2020 (PZ-26D), September 2022 (WGWC-27), and August 2023 (WGWC-28D). Piezometers installed March 2024 (PZ-30, PZ-31).
2. WGWA-5 was reclassified from a detection well to a piezometer due to internal well damage, following the semiannual monitoring event.
3. PZ-11 was abandoned in March 2024, following the semiannual monitoring event.
4. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, January 30, 2024.
5. Service Layer Credits: Source: ESRI_World_Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community.

0 400 800 1,600
SCALE IN FEET

GROUNDWATER MONITORING WELL NETWORK MAP

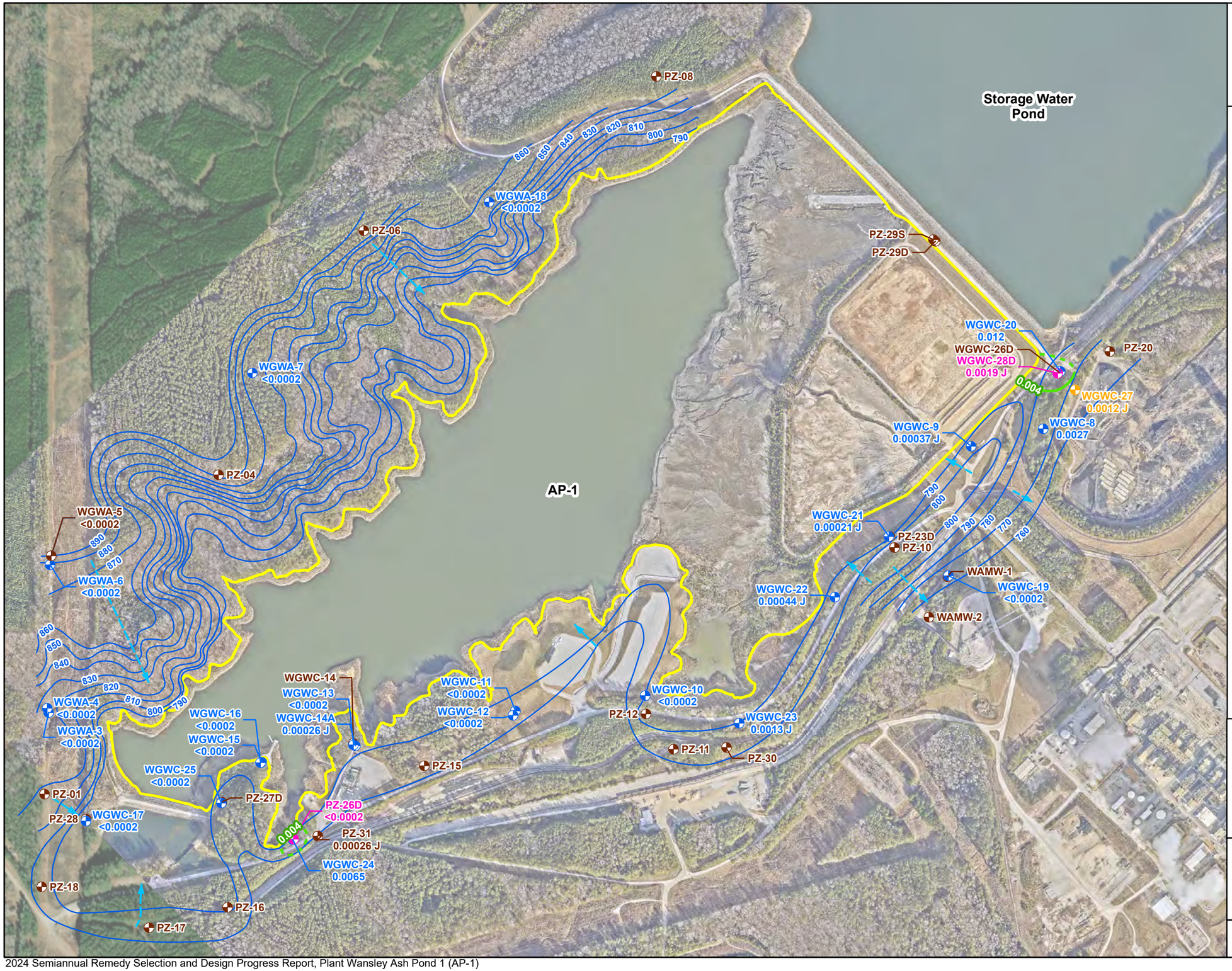
GEORGIA POWER COMPANY
PLANT WANSLEY AP-1
HEARD AND CARROLL COUNTIES, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | AUGUST 2024

FIGURE 2



Legend

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Groundwater Elevation Iso-Contour
- Approximate Groundwater Flow Direction
- Approximate AP-1 Boundary
- Beryllium GWPS Iso-Concentration Contour (mg/L)
- 0.004 Beryllium GWPS Iso-Concentration Contour (mg/L) Inferred

Notes:
1. Concentration data from groundwater samples was collected during the February 2024, semiannual monitoring event, and subsequent May 2024 sampling event for PZ-31.
2. Concentrations are reported in milligrams per liter (mg/L).
3. Water level elevation recorded on February 12, 2024. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
4. The Groundwater Protection Standard (GWPS) for Beryllium is 0.004 mg/L.
5. J - Estimated value and detected between the analytical method detection limit and the reporting limit.
6. Data reported for wells screened deeper in the aquifer were not used for iso-concentration contour (PZ-26D and WGWC-28D).
7. WGWA-5 was reclassified from a detection well to a piezometer due to internal well damage, following the semiannual monitoring event.
8. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, January 30, 2024.
9. Service Layer Credits: Source: ESRI_World_Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community.

0 400 800 1,600

SCALE IN FEET

ISO-CONCENTRATION MAP, BERYLLIUM - FEBRUARY 2024

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

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | AUGUST 2024

FIGURE 3



Legend

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Groundwater Elevation Iso-Contour
- Approximate Groundwater Flow Direction
- Approximate AP-1 Boundary
- 0.013 Cobalt GWPS Iso-Concentration Contour (mg/L)
- Cobalt GWPS Iso-Concentration Contour (mg/L) Inferred

Notes:
1. Concentration data from groundwater samples was collected during the February 2024, semiannual monitoring event, and subsequent May 2024 sampling event for PZ-31.
2. Concentrations are reported in milligrams per liter (mg/L).
3. Water level elevation recorded on February 12, 2024. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
4. The Groundwater Protection Standard (GWPS) for cobalt is 0.013 mg/L.
5. J - Estimated value and detected between the analytical method detection limit and the reporting limit.
6. Data reported for wells screened deeper in the aquifer were not used for iso-concentration contour (PZ-26D and WGWC-28D).
7. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, January 30, 2024.
8. Service Layer Credits: Source: ESRI_World_Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community.

0 125 250 500

SCALE IN FEET

ISO-CONCENTRATION MAP, COBALT- FEBRUARY 2024

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

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | AUGUST 2024

FIGURE 4



N

Legend

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Groundwater Elevation Iso-Contour
- Approximate Groundwater Flow Direction
- Approximate AP-1 Boundary
- 0.040 Lithium GWPS Iso-Concentration Contour (mg/L)
- Lithium GWPS Iso-Concentration Contour (mg/L) Inferred

Notes:
1. Concentration data from groundwater samples was collected during the February 2024, semiannual monitoring event.
2. Concentrations are reported in milligrams per liter (mg/L).
3. Water level elevation recorded on February 12, 2024. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
4. The Groundwater Protection Standard (GWPS) for lithium is 0.040 mg/L.
5. Data reported for wells screened deeper in the aquifer were not used for iso-concentration contour (PZ-26D and WGWC-28D).
6. Service Layer Credits for immediate vicinity of AP-1: Source: SAM LLC, January 30, 2024.
7. Service Layer Credits: Source: ESRI_World_Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community.

0 125 250 500

SCALE IN FEET

ISO-CONCENTRATION MAP, LITHIUM- FEBRUARY 2024

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

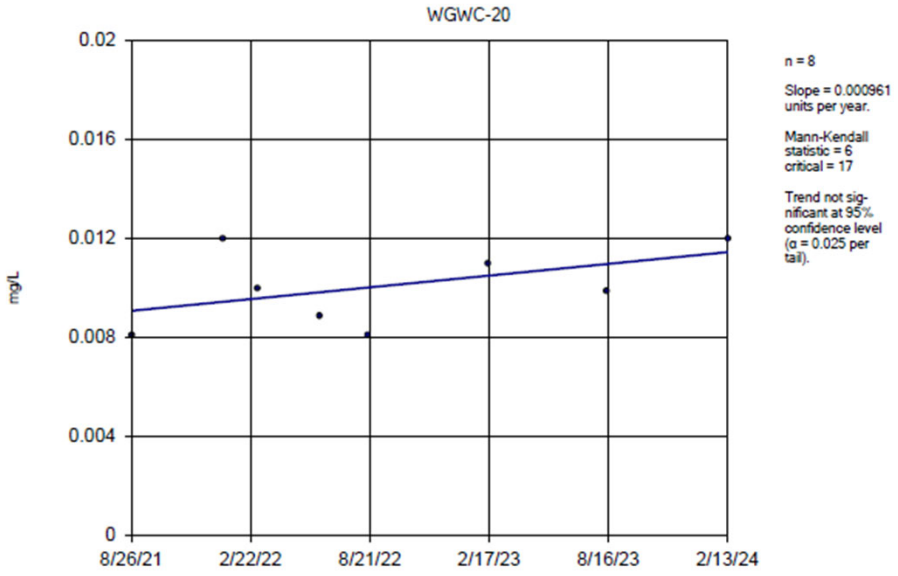
Prepared For: Georgia Power

Prepared By: Geosyntec consultants

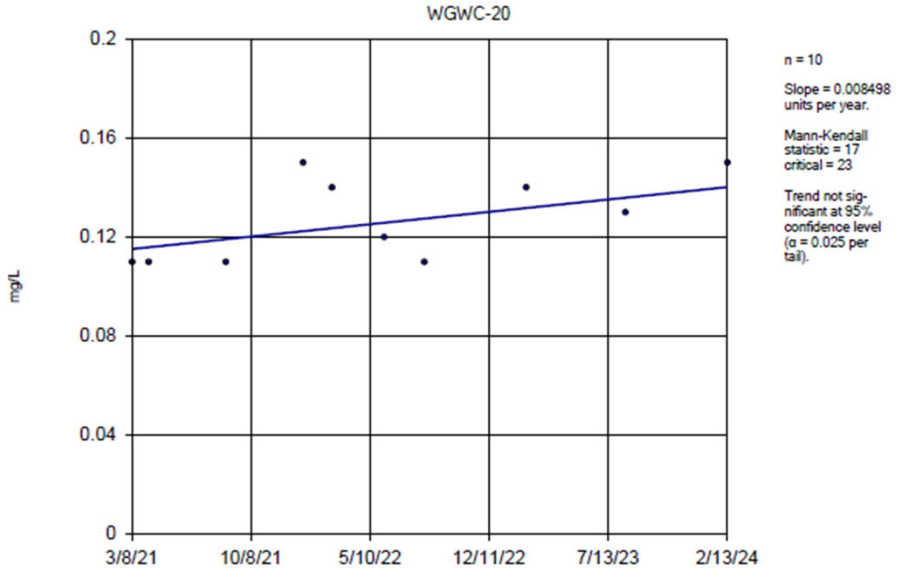
KENNESAW, GA | AUGUST 2024

FIGURE 5

Beryllium



Lithium



Notes:

1. Groundwater trends completed by Groundwater Stats Consulting using groundwater data collected for the full monitoring period through the February 2024 semiannual sampling event.
2. Trends shown are in wells where statistically significant levels (SSLs) have been identified.
3. mg/L = milligrams per liter

Beryllium and Lithium Concentration Trends
WGWC-20
Georgia Power Company
Plant Wansley AP-1
Putnam County, Georgia

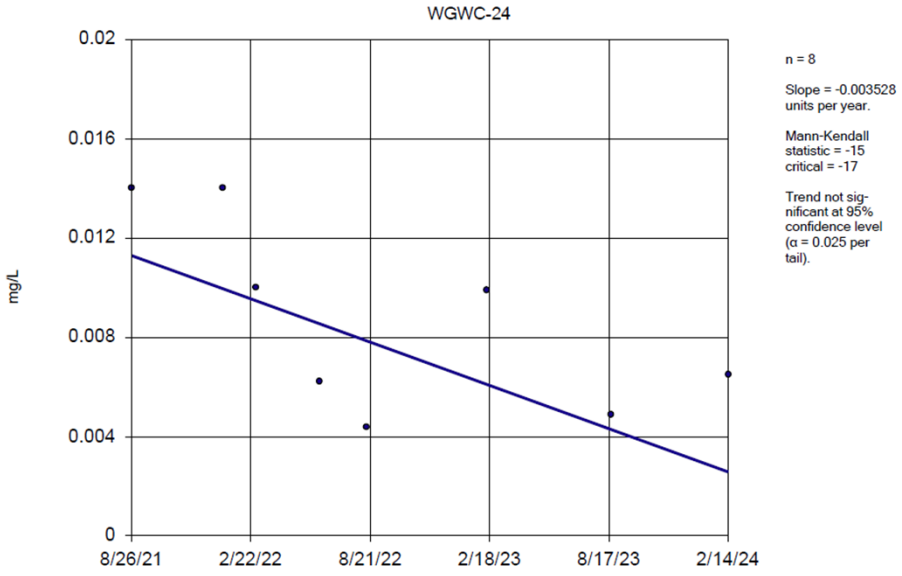
Prepared For: Georgia Power

Prepared By: Geosyntec consultants

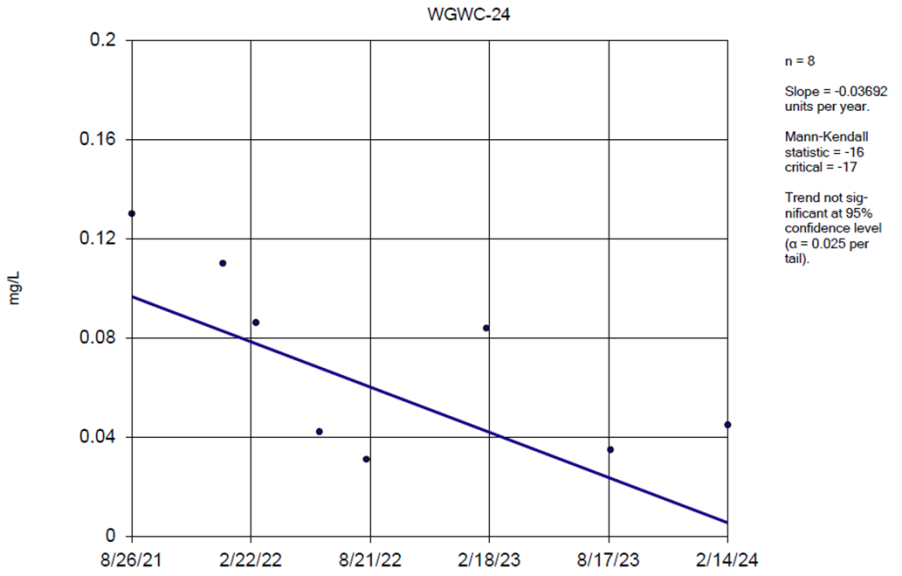
Kennesaw, GA | August 2024

Figure 6a

Beryllium



Cobalt



Notes:

1. Groundwater trends completed by Groundwater Stats Consulting using groundwater data collected for the full monitoring period through the February 2024 semiannual sampling event.
2. Trends shown are in wells where statistically significant levels (SSLs) have been identified.
3. mg/L = milligrams per liter

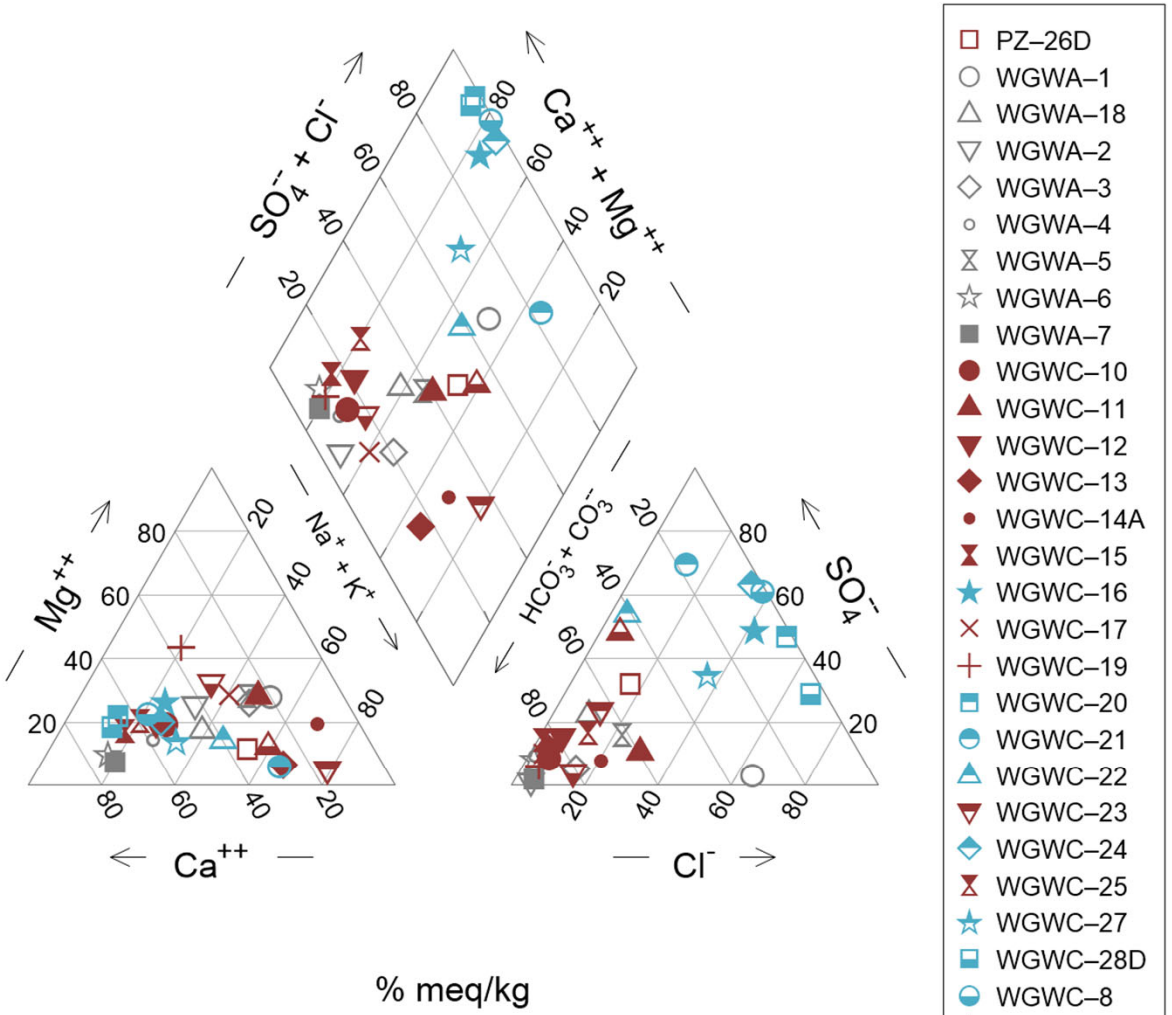
Beryllium and Lithium Concentration Trends
WGWC-24
Georgia Power Company
Plant Wansley AP-1
Putnam County, Georgia

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

Kennesaw, GA | August 2024

Figure 6b



Notes:

1. Analytical data collected for all wells in February 2024, with the exception of PZ-31 where the analytical data were obtained in May 2024.

Piper Diagrams

Georgia Power Company
Plant Wansley AP-1
Heard and Carroll County, Georgia

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

Kennesaw, GA | August 2024

FIGURE 7

APPENDIX A
Analytical Laboratory Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/22/2024 5:32:26 PM

JOB DESCRIPTION

Plant Wansley - Ash Pond

JOB NUMBER

680-250614-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

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Authorization



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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-250614-1
Project/Site: Plant Wansley - Ash Pond

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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

Sample Summary

Client: Southern Company
Job ID: 680-250614-1
Project/Site: Plant Wansley - Ash Pond

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-250614-1	WAN-PZ-31	Water	05/09/24 15:30	05/11/24 09:28

Job ID: 680-250614-1 — Eurofins Savannah

Job Narrative
680-250614-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The sample was received on 5/11/2024 9:28 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°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
Method 2540C: A lesser volume of sample was used for the following samples due to the nature of the sample matrix resulting in elevated reporting limits: WAN-PZ-31 (680-250614-1).

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

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

Job ID: 680-250614-1

Client Sample ID: WAN-PZ-31

Date Collected: 05/09/24 15:30
Date Received: 05/11/24 09:28

Lab Sample ID: 680-250614-1

Matrix: Water

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.9**		1.0	0.20	mg/L			05/21/24 22:12	1
Fluoride	<0.040		0.10	0.040	mg/L			05/21/24 22:12	1
Sulfate	**1.6**		1.0	0.40	mg/L			05/21/24 22:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	**0.00026**	**J**	0.0025	0.00020	mg/L		05/12/24 10:12	05/13/24 23:21	1
Boron	<0.022		0.080	0.022	mg/L		05/12/24 10:12	05/13/24 23:21	1
Calcium	**4.0**		0.50	0.14	mg/L		05/12/24 10:12	05/13/24 23:21	1
Cobalt	**0.0071**		0.0025	0.00022	mg/L		05/12/24 10:12	05/13/24 23:21	1
Iron	**0.16**		0.050	0.012	mg/L		05/12/24 10:12	05/13/24 23:21	1
Magnesium	**2.3**		0.50	0.023	mg/L		05/12/24 10:12	05/13/24 23:21	1
Manganese	**0.62**		0.0050	0.0022	mg/L		05/12/24 10:12	05/13/24 23:21	1
Potassium	**2.2**		0.50	0.044	mg/L		05/12/24 10:12	05/13/24 23:21	1
Sodium	**3.3**		0.50	0.20	mg/L		05/12/24 10:12	05/13/24 23:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**37**		5.0	5.0	mg/L			05/15/24 21:23	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**37**		5.0	5.0	mg/L			05/15/24 21:23	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			05/15/24 21:23	1
Total Dissolved Solids (SM 2540C-2011)	<40		40	40	mg/L			05/15/24 12:00	1
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			05/15/24 15:31	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-839139/58
Matrix: Water
Analysis Batch: 839139

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			05/21/24 19:40	1
Fluoride	<0.040		0.10	0.040	mg/L			05/21/24 19:40	1
Sulfate	<0.40		1.0	0.40	mg/L			05/21/24 19:40	1

Lab Sample ID: LCS 680-839139/59
Matrix: Water
Analysis Batch: 839139

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	9.64		mg/L		96	90 - 110		
Fluoride			2.00	1.91		mg/L		96	90 - 110		
Sulfate			10.0	9.41		mg/L		94	90 - 110		

Lab Sample ID: LCSD 680-839139/60
Matrix: Water
Analysis Batch: 839139

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			10.0	9.68		mg/L		97	90 - 110	0	15
Fluoride			2.00	1.92		mg/L		96	90 - 110	1	15
Sulfate			10.0	9.47		mg/L		95	90 - 110	1	15

Lab Sample ID: 680-250600-G-1 MS
Matrix: Water
Analysis Batch: 839139

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	17		10.0	26.0		mg/L		94	80 - 120		
Fluoride	0.37		2.00	2.01		mg/L		82	80 - 120		
Sulfate	8.2		10.0	16.9		mg/L		87	80 - 120		

Lab Sample ID: 680-250600-G-1 MSD
Matrix: Water
Analysis Batch: 839139

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	17		10.0	25.8		mg/L		92	80 - 120	1	15
Fluoride	0.37		2.00	2.02		mg/L		82	80 - 120	0	15
Sulfate	8.2		10.0	16.7		mg/L		85	80 - 120	1	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-837601/1-A
Matrix: Water
Analysis Batch: 837814

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 837601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.00020		0.0025	0.00020	mg/L		05/12/24 10:12	05/13/24 22:08	1
Boron	<0.022		0.080	0.022	mg/L		05/12/24 10:12	05/13/24 22:08	1
Calcium	<0.14		0.50	0.14	mg/L		05/12/24 10:12	05/13/24 22:08	1

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

Lab Sample ID: MB 680-837601/1-A
Matrix: Water
Analysis Batch: 837814

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 837601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.00022		0.0025	0.00022	mg/L		05/12/24 10:12	05/13/24 22:08	1
Iron	<0.012		0.050	0.012	mg/L		05/12/24 10:12	05/13/24 22:08	1
Magnesium	<0.023		0.50	0.023	mg/L		05/12/24 10:12	05/13/24 22:08	1
Manganese	<0.0022		0.0050	0.0022	mg/L		05/12/24 10:12	05/13/24 22:08	1
Potassium	<0.044		0.50	0.044	mg/L		05/12/24 10:12	05/13/24 22:08	1
Sodium	<0.20		0.50	0.20	mg/L		05/12/24 10:12	05/13/24 22:08	1

Lab Sample ID: LCS 680-837601/2-A
Matrix: Water
Analysis Batch: 837814

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 837601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0553		mg/L		111	80 - 120
Boron	0.400	0.406		mg/L		101	80 - 120
Calcium	5.00	5.23		mg/L		105	80 - 120
Cobalt	0.0500	0.0543		mg/L		109	80 - 120
Iron	4.99	5.49		mg/L		110	80 - 120
Magnesium	5.00	5.15		mg/L		103	80 - 120
Manganese	0.400	0.406		mg/L		101	80 - 120
Potassium	7.00	7.20		mg/L		103	80 - 120
Sodium	5.03	5.83		mg/L		116	80 - 120

Lab Sample ID: 400-255735-G-12-B MS
Matrix: Water
Analysis Batch: 837814

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 837601

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.00020		0.0500	0.0588		mg/L		118	75 - 125
Boron	0.031	J	0.400	0.458		mg/L		107	75 - 125
Calcium	110		5.00	118	4	mg/L		202	75 - 125
Cobalt	0.0077		0.0500	0.0644		mg/L		113	75 - 125
Iron	0.93		4.99	6.49		mg/L		111	75 - 125
Magnesium	11		5.00	17.0		mg/L		119	75 - 125
Manganese	3.1		0.400	3.55	4	mg/L		114	75 - 125
Potassium	5.3		7.00	13.8		mg/L		121	75 - 125
Sodium	12	F1	5.03	18.1		mg/L		118	75 - 125

Lab Sample ID: 400-255735-G-12-C MSD
Matrix: Water
Analysis Batch: 837814

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 837601

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.00020		0.0500	0.0603		mg/L		121	75 - 125	2	20
Boron	0.031	J	0.400	0.467		mg/L		109	75 - 125	2	20
Calcium	110		5.00	110	4	mg/L		51	75 - 125	7	20
Cobalt	0.0077		0.0500	0.0630		mg/L		111	75 - 125	2	20
Iron	0.93		4.99	6.88		mg/L		119	75 - 125	6	20
Magnesium	11		5.00	16.6		mg/L		112	75 - 125	2	20
Manganese	3.1		0.400	3.46	4	mg/L		91	75 - 125	3	20

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

Lab Sample ID: 400-255735-G-12-C MSD
Matrix: Water
Analysis Batch: 837814

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 837601

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Potassium	5.3		7.00	13.5		mg/L		117	75 - 125	2	20
Sodium	12	F1	5.03	22.1	F1	mg/L		199	75 - 125	20	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-838391/4
Matrix: Water
Analysis Batch: 838391

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	<5.0		5.0	5.0	mg/L			05/15/24 18:29	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			05/15/24 18:29	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			05/15/24 18:29	1

Lab Sample ID: LCS 680-838391/6
Matrix: Water
Analysis Batch: 838391

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	250	245		mg/L		98	90 - 112

Lab Sample ID: LCSD 680-838391/31
Matrix: Water
Analysis Batch: 838391

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3	250	267		mg/L		107	90 - 112	9	30

Lab Sample ID: 680-250600-E-5 DU
Matrix: Water
Analysis Batch: 838391

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3	41		39.4		mg/L		4	30
Bicarbonate Alkalinity as CaCO3	41		39.4		mg/L		4	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-838111/1
Matrix: Water
Analysis Batch: 838111

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			05/15/24 12:00	1

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: LCS 680-838111/2
Matrix: Water
Analysis Batch: 838111

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			2410	2440		mg/L		101	80 - 120		

Lab Sample ID: LCSD 680-838111/3
Matrix: Water
Analysis Batch: 838111

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			2410	2440		mg/L		101	80 - 120	0	25

Lab Sample ID: 680-250533-B-1 DU
Matrix: Water
Analysis Batch: 838111

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	330			320		mg/L				4	5

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-838195/1
Matrix: Water
Analysis Batch: 838195

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			05/15/24 15:31	1

Lab Sample ID: LCS 680-838195/2
Matrix: Water
Analysis Batch: 838195

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.59		mg/L		96	75 - 125		

Lab Sample ID: LCSD 680-838195/3
Matrix: Water
Analysis Batch: 838195

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
Sulfide			10.0	9.20		mg/L		92	75 - 125	4	30

Lab Sample ID: 680-250600-C-6 MSD
Matrix: Water
Analysis Batch: 838195

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.81		6.50	7.79		mg/L		120	75 - 125	2	30

Method: 4500 S2 F-2011 - Sulfide, Total (Continued)

Lab Sample ID: 680-250600-D-6 MS
Matrix: Water
Analysis Batch: 838195

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	<0.81		6.50	7.63		mg/L		117	75 - 125		

Lab Sample ID: 680-250600-E-2 DU
Matrix: Water
Analysis Batch: 838195

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	<0.86			<0.81		mg/L				NC	30

HPLC/IC

Analysis Batch: 839139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-250614-1	WAN-PZ-31	Total/NA	Water	300.0-1993 R2.1	
MB 680-839139/58	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-839139/59	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-839139/60	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-250600-G-1 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-250600-G-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 837601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-250614-1	WAN-PZ-31	Total Recoverable	Water	3005A	
MB 680-837601/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-837601/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-255735-G-12-B MS	Matrix Spike	Total Recoverable	Water	3005A	
400-255735-G-12-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 837814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-250614-1	WAN-PZ-31	Total Recoverable	Water	6020B	837601
MB 680-837601/1-A	Method Blank	Total Recoverable	Water	6020B	837601
LCS 680-837601/2-A	Lab Control Sample	Total Recoverable	Water	6020B	837601
400-255735-G-12-B MS	Matrix Spike	Total Recoverable	Water	6020B	837601
400-255735-G-12-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	837601

General Chemistry

Analysis Batch: 838111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-250614-1	WAN-PZ-31	Total/NA	Water	2540C-2011	
MB 680-838111/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-838111/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-838111/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-250533-B-1 DU	Duplicate	Total/NA	Water	2540C-2011	

Analysis Batch: 838195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-250614-1	WAN-PZ-31	Total/NA	Water	4500 S2 F-2011	
MB 680-838195/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-838195/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-838195/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-250600-C-6 MSD	Matrix Spike Duplicate	Total/NA	Water	4500 S2 F-2011	
680-250600-D-6 MS	Matrix Spike	Total/NA	Water	4500 S2 F-2011	
680-250600-E-2 DU	Duplicate	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 838391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-250614-1	WAN-PZ-31	Total/NA	Water	2320B-2011	
MB 680-838391/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-838391/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-838391/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-250600-E-5 DU	Duplicate	Total/NA	Water	2320B-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-250614-1
Project/Site: Plant Wansley - Ash Pond

Client Sample ID: WAN-PZ-31
Lab Sample ID: 680-250614-1
Date Collected: 05/09/24 15:30
Matrix: Water
Date Received: 05/11/24 09:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	2 mL	2 mL	839139	05/21/24 22:12	AF	EET SAV
	Instrument ID: CICR									
Total Recoverable	Prep	3005A			25 mL	125 mL	837601	05/12/24 10:12	RR	EET SAV
Total Recoverable	Analysis	6020B		1			837814	05/13/24 23:21	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			838391	05/15/24 21:23	PG	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	838111	05/15/24 12:00	PG	EET SAV
	Instrument ID: NOEQUIP									
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	838195	05/15/24 15:31	JAS	EET SAV
	Instrument ID: NoEquip									

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-250614-1
Project/Site: Plant Wansley - Ash Pond

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24

Method Summary

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

Job ID: 680-250614-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	SW846	EET SAV
2320B-2011	Alkalinity, Total	SM	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
4500 S2 F-2011	Sulfide, Total	SM	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

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

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

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

Laboratory References:

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

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: J Bernsford	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770-594-5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 1 of 1
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Atlanta	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: GA, 30308				Other:
Phone: 404-506-7116(Tel)	Lab Project #: 68027766			
Email: SCS Contacts / Geosyntec Contacts	PO #: GPC82130-0004			
Project Name: Plant Wansley Ash Pond	Project #:			Task_Code: WAN-CCR-ASSMT-2024S1
Site:	SSOW#:			Special Instructions/Note: Full APP III, Major Ions, Select Metals

Sample Identification	Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=quality control)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Cl, F, SO_4 & TDS (EPA 300.0 & SM 2540C)	App III Metals (EPA 6020): Boron, Calcium	Select Metals (EPA 6020): Beryllium, Cobalt	Major Ions (EPA 6020) - Iron, Magnesium, Manganese, Potassium, Sodium	Major Ions (SM 2320B) - Carbonate, Bicarbonate, Total Alkalinity	Major Ions - Sulfide (SM 4500-S2 F)	Total Number of containers
			Preservation Code:				I	D	D	D	I	B, C	
WAN-PZ-31	05/09/24	1530	G	WG	N	N	X	X	X	X	X	X	6

680-250614 Chain of Custody

244 - ATLANTA

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples ...)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	5/10/24 0835	AcC	Received by:	5/10/24	Eurofins
Relinquished by:	5/10/24 1600	Eurofins	Received by:		
Relinquished by:			Received by:	5/11/24 0028	

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.7/1.5

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-250614-1

Login Number: 250614

List Source: Eurofins Savannah

List Number: 1

Creator: Stewart, Rendaisha

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